Altron successfully proposed, designed, manufactured and delivered, on time, over 1300 deployable camera poles and cylindrical bases, in the lead up to the 2012 London Olympics.
Welcome to our comprehensive guide to CCTV camera mounting equipment.

Whilst most applications should be covered in this catalogue, we can supply variations to many of our products and also produce products tailored to suit associated industry needs.

Please feel free to contact us.

Tower House, Parc Hendre, Capel Hendre, Ammanford, SA18 3SJ
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Sales Direct Line: +44 (0) 1269 833222
Email: cctvsales@altron.co.uk • www.altron.co.uk

www.altron.co.uk 02
Company Overview

Altron Communications Equipment Ltd

We are dedicated to supplying the most secure products of the highest standard...

Facilities
Our UK base provides 6,000m² (60,000ft²) of manufacturing space in a modern well-equipped facility situated close to the main motorway network.

Ongoing investment in equipment means that we remain at the forefront of being able to supply competitively and reliably.

Design
Altron has been responsible for many firsts in the industry and that continues to this day. From the first purpose-built cabinet based pole through to some of the new products included in this edition, with many unique and patentable features.

Product Range
Our product range is extensive - we have many other solutions in addition to those shown in this catalogue - let us know what, how and where you want to mount and we’ll find the answer.
We have a large range of stock, enabling us to ship your order in the shortest time possible. This includes most brackets, towers and columns and a selection of our most popular poles.

Our dedicated knowledgeable people are able to support you in finding the best product for your needs. There are many technical services available, including advising on site specific foundations and providing specific calculations and information to satisfy your client’s needs.

We can train your people to operate our products safely and competently and offer training in winch operation for our tilting, telescopic and lowering trolley head poles.

With our history and service you can be sure....
You’re Safe with Altron
Altron supplies to markets worldwide, with countries in the Middle East being of particular importance. Here is a small selection of projects to date:

- **Monopole located within petrochemical refinery Qatar**
- **AW1545 Tilt Down at central area of highway Kuwait**
- **AW1545UP at Doha Cultural Centre Qatar**
- **ACT Lattice tower located at petrochemical installation Middle East**
- **AW1859 located roadside Oman**
You’re Safe with Altron

We are dedicated to supplying the most secure products of the highest standard to ensure your CCTV installations are the best they can be. With our industry leading secure features you’re safe with Altron.

Altron designed secure locks
Heavy duty latch resists lever attacks and close fitting oval spindle means lock cannot be operated without correct key.

Flush door
Altron’s unique flush door design has 1mm clearance all round, preventing successful lever attacks.

Secure vents
Mesh-covered offset internal aperture and vent orientation with ground level combine to hinder access through vent.

ALTRON
The Pinnacle of Camera Mounting

The pinnacle of camera mounting
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Altron’s range of Modular Towers and Columns are a practical and economic solution to many commercial and industrial CCTV installations. Sectional construction means economic shipping and easy installation in more inaccessible locations.

We offer the most comprehensive range available with tilt-down models up to 15 metres and fixed models up to 25 metres with telescopic, cabinet based and internally cabled products completing the range.

Altron’s numerous security design features ensure a good level of resistance against vandal attacks.
Altron Camera Columns, a cost effective and comprehensive range with most models available ‘ex stock’, offering a good level of security. Suitable for installations where the public has access - tilt-down models have internal padlock facility. The range is generally for light to medium fixed and PTZ applications, but there are also heavy duty (HD) options for high loading PTZ and dual lighting & CCTV applications.

Typically used for the following types of installation
- Industrial and commercial premises
- Perimeter detection
- Utilities sites
- Schools and universities
- Railway platforms & car parks
- Car parks
- Petrochemical sites
- Sports stadia

Security Features
- Internal cabling
- Internal padlock facility on tilt-down models to protect against unauthorised lowering
- Close fitting flush doors
- Solid secure heavy duty door locks

General Features
- Modular construction for ease of assembly and installation on site
- Ideal for restricted access areas
- Provides stable mounting platform for all camera types
- Demountable winches ensure tilt down models are secure and reduces costs on multiple installations
- Tilt Down models enable camera maintenance at ground level, therefore reducing maintenance costs
- Tilt Down models available in both bolt down and post mounted base versions
- A wide range of standard Altron Accessories and Brackets available ex stock
- Quick turnaround for larger projects
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107
### ACC Modular Columns

#### Technical Specifications

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<td>2000</td>
<td>DW1500/AC</td>
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<td>200</td>
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<td>DW1500/AC</td>
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</table>

Where payloads are greater than those stated above, please contact Altron

EB Version is directly embedded

All dimensions in mm unless stated otherwise

#### Accessories

- Top mounting brackets for Fixed and PTZ cameras: P76
- Swanneck brackets for Dome cameras: P81
- Anti-climb guards: P77
- Clamp-on camera mounting brackets: P78
- Telemetry box mounting brackets: P77
- Column top mounting cages: P83

#### Quick reference

- Single fixed camera knuckle: PTS-1
- Twin fixed camera knuckle: TB2-600F
- Half swanneck for dome: AW1699H
- Full swanneck for dome: AW1699F
- Anti climb guard: SGC
- Accessory bracket: ATBC

Due to our policy of continuous product improvement specifications may change without notice

Visit www.altron.co.uk for more information.
AW1697

Height range 4.5m - 15m

A cost effective and comprehensive range with most models available 'ex stock', offering a good level of security. The column base post has a built-in cabinet for mounting equipment within the one unit, therefore providing cost savings where a separate cabinet would otherwise need to be used. Suitable for installations where the public has access, these columns have an internal padlock facility. The range is generally for light to medium fixed and PTZ applications, but there are also heavy duty (HD) options for high loading PTZ and dual lighting & CCTV applications.

Typically used for the following types of installation
- Industrial and commercial premises
- Perimeter detection
- Utilities sites
- Schools and universities
- Sports stadia
- Railway platforms & car parks
- Car parks
- Petrochemical sites
- Securing compounds

Security Features
- Internal cabling
- Internal padlock facility

General Features
- Modular construction for ease of assembly and installation on site
- Ideal for restricted access areas
- Provides stable mounting platform for all camera types
- Demountable winches ensure tilt down models are secure and reduces costs on multiple installations
- Tilt Down models enable camera maintenance at ground level, therefore reducing maintenance costs
- Tilt Down models available in both bolt down and embedded base versions
- A wide range of standard Altron Accessories and Brackets available ex stock
- Quick turnaround for larger projects
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107

Telescopic

Height range 4m - 8m

Altron’s range of telescopic columns offer the facility to maintain camera equipment at low level without the need to ‘tilt-down’ the column. This has the advantage of enabling maintenance for cameras in restricted area locations where a cherry picker does not have access. The range is for light to medium fixed and PTZ applications.

Typically used for the following types of installation
- Industrial and commercial premises
- Railway platforms
- Railway marshalling areas
- Roof mounted locations

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks
- Padlockable winch cover and cable guard

General Features
- Enables cameras to be mounted in locations that they otherwise could not be.
- Ideal for restricted access areas
- Provides stable mounting platform for all camera types
- Enables camera maintenance at ground level, therefore reducing maintenance costs.
- A wide range of standard Altron Accessories and Brackets available ex stock
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- For design, manufacturing and finishing standards, see details on page 107
AW1697 Cabinet Base Column

AW1697 Cabinet Columns & ACC Telescopic Columns Technical Specification

AW1697/4.5
AW1697/6
AW1697/6HD
AW1697/7.5
AW1697/7.5HD
AW1697/9
AW1697/10
AW1697/10HD
AW1697/12
AW1697/15

Model No. Height in mtrs Post type Max equip weight at top kgs Max equip surface area m² Post size A? Lower section B? Mid section B? Upper section C? Extension length D1 mtrs Extension length D2 mtrs Door aperture size HxW Column rear clearance when tilting G Winch part number Product weight kgs

Telescopic Columns

Full Height A mtrs Restricted Height L mtrs

Where payloads are greater than those stated above, please contact Altron
All dimensions in mm unless stated otherwise
ACT Modular Towers

Fixed height range 4.5m - 12m
Tilt-down height range 4.5m - 14m

Altron Camera Towers, a cost effective and comprehensive range with most models available 'ex stock'. Giving good rigidity they are suitable for exposed, high wind load locations. The range is for medium to heavy camera installations, and for dual lighting & CCTV applications, or lighter applications where rigidity is paramount. ACT Towers are not ideally suited to public area installations due to their climbable nature and external camera cabling.

Typically used for the following types of installation
- Industrial and commercial premises
- Perimeter detection
- Utilities sites
- Car parks
- Petrochemical sites
- Securing compounds
- Military and high security sites

General Features
- Modular construction for ease of assembly and installation on site
- Ideal for restricted access areas
- Provides stable mounting platform for all camera types
- Demountable winches ensure tilt down models are secure and reduces costs on multiple installations
- Tilt Down models enable camera maintenance at ground level, therefore reducing maintenance costs
- Tilt Down models available in both bolt down and post mounted versions
- A wide range of standard Altron Accessories and Brackets available ex stock
- Simple system of casting ground frame, bolts or post
- Conduit cabling system available as an option
- Quick turnaround for larger projects
- Available with AW1697 Cabinet if required (See page 13)
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107

ACT2BP
ACTI BP in tilted position
ACT Modular Towers

Technical Specifications

**ACT**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Height in mtrs</th>
<th>Post type</th>
<th>Max equip weight at top</th>
<th>Max surface area m²</th>
<th>Post size</th>
<th>Top length mtrs</th>
<th>Tower rear clearance when tilting</th>
<th>Winch part number</th>
<th>Product weight kgs</th>
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<td>Standard</td>
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<td>-</td>
<td>1700</td>
<td>DW1000/AT</td>
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<td>1700</td>
<td>DW1000/AT</td>
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<td></td>
<td></td>
<td>Duty</td>
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<td>120</td>
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<td>DW1000/AT</td>
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<td>-</td>
<td>DW1500/AT</td>
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<td>DW1500/AT</td>
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<tr>
<td></td>
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<td>Duty</td>
<td>0.25</td>
<td>120</td>
<td>3</td>
<td>1700</td>
<td>DW1500/AT</td>
<td></td>
<td></td>
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<td>ACT3HD</td>
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<td>150</td>
<td>3</td>
<td>2000</td>
<td>DW1500/ATHD</td>
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<td>DW1500/ATHD</td>
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<td>4.5</td>
<td>2000</td>
<td>DW1500/ATHD</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Duty</td>
<td>0.25</td>
<td>150</td>
<td>4.5</td>
<td>2000</td>
<td>DW1500/ATHD</td>
<td></td>
<td></td>
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<td>DW2500/AT</td>
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<td></td>
<td>PM</td>
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<td>7</td>
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<td>DW1500/AT14</td>
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</table>

Where payloads are greater than those stated above, please contact Altron
All dimensions in mm unless stated otherwise

---

Accessories

- Top mounting brackets for Fixed and PTZ cameras: P76
- Swanneck brackets for Dome cameras: P81
- Anti-climb guards: P77
- Clamp-on camera mounting brackets: P78
- Telemetry box mounting brackets: P77
- Tower top mounting cages: P83

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Quick reference

- Single fixed camera knuckle: PTS-1
- Twin fixed camera bracket: TB2-600F
- Half swanneck for dome: AW1699H
- Full swanneck for dome: AW1699F
- Anti climb guard: SGT
- Accessory bracket: ATBT

---

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www.altron.co.uk 16
Height range 4m - 10m

Altron Nested Camera Towers are designed to be a secure mounting solution, where a lattice tower is the preferred mounting option. Cabling through the tower is completely concealed thanks to its patented hinge design and there is a secure access door and treated backboard within the base post so that connections and equipment are situated inside the tower.

Installation is made easy by the use of a simple bolt frame for setting the holding down bolts and a large entry point into the base post provides clear access for cable ducts. The footprint of the tower is small and the appearance is neat and compact due to the base post ‘nesting’ inside the tower.

ANCT towers give good rigidity and are suitable for exposed locations. Ideal for medium to heavy camera installations or lighter applications where rigidity is paramount, a full range of accessories are available and all tower components are held in stock. ANCT Towers are not ideally suited for public area installations due to their climbable nature.

Typically used for the following types of installation
- Industrial and commercial premises
- Perimeter detection
- Utilities sites
- Car parks
- Petrochemical sites
- Securing compounds
- Military and high security sites

Security Features
- Internal cabling
- Internal padlock facility
- Close fitting flush doors
- Solid secure heavy duty door locks

General Features
- Modular construction in 2 metre sections for ease of assembly and installation on site
- Large integrated cabinet, allowing equipment mounting and internal cable connections
- Patented method of internal cabling pathway, through cabinet and tilt-mechanism, up through tower leg and exiting via conduit exit points.
- Simple method of pre-casting base connections - only bolts need to be cast, no other steelwork
- Large cable duct entry into bottom of base post
- Ideal for restricted access areas
- Provides stable mounting platform for all camera types
- Demountable winches ensure towers are secure and reduces costs on multiple installations
- Enables camera maintenance at ground level, therefore reducing maintenance costs
- A wide range of standard Altron Accessories and Brackets available ex stock
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107
Cable and Conduit Installation Notes

When installing cables within the lower leg, cables should be enclosed within flexible conduit. Where there are too many cables to fit inside a continuous flexible conduit, then a split conduit should be used at the hinge point between the base post and the tower section, locally (see photograph on this page showing flexible conduit in position). Some slack should be left in cables – approx 100mm – to ensure that the cables do not pull tight when the tower tilts down.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Height A</th>
<th>Max equip weight at top kgs</th>
<th>Max equip surface area m²</th>
<th>Tower rear clearance when tilting G</th>
<th>Cabinet door size H x W</th>
<th>Back board size &amp; compartment depth H x W x D</th>
<th>Winch part number</th>
<th>Product weight kgs</th>
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<td>570x170x150</td>
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<td>ANCT 6</td>
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<td>600x165</td>
<td>570x170x150</td>
<td>DW1000/ANCT</td>
<td>172</td>
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<td>ANCT 8</td>
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<td>2000</td>
<td>600x165</td>
<td>570x170x150</td>
<td>DW1500/ANCT</td>
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<td>2000</td>
<td>600x165</td>
<td>570x170x150</td>
<td>DW2500/ANCT</td>
<td>226</td>
</tr>
</tbody>
</table>

Where payloads are greater than those stated above, please contact Altron
All dimensions in mm unless stated otherwise
ASST Towers 15m - 25m

A range of heavy duty lattice towers suitable for more demanding applications than those covered by our ACT range, including heavy load and high wind areas.

Supplied with or without ladder and fall arrest.

Features
- Modular construction - Longest tower length = 4.4m for ease of transportation and installation.
- Ladders & fall arrest tested to comply with ISO standards.
- Comprehensive range of accessories.
- Service platforms available.
- Versatile and adaptable design due to interchangeable modules and our specialist in house software. Optimum tower solutions can be proposed, depending on level of equipment fitted, headload and location.

For design and construction standards see page 107.
**Foundations sizes for the UK**

<table>
<thead>
<tr>
<th>TOWER PART NUMBER</th>
<th>TOWER HEIGHT M</th>
<th>COUNTRY LOCATION</th>
<th>AREA A</th>
<th>AREA B</th>
<th>AREA C</th>
<th>TOWN LOCATION</th>
<th>AREA A</th>
<th>AREA B</th>
<th>AREA C</th>
</tr>
</thead>
<tbody>
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<td>ASST/15</td>
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<td>1.8x1.8x1</td>
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<tr>
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<td>2.2x2.2x1.2</td>
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</table>

**Towers with no ladder and fall arrest**

<table>
<thead>
<tr>
<th>TOWER PART NUMBER</th>
<th>TOWER HEIGHT M</th>
<th>COUNTRY LOCATION</th>
<th>AREA A</th>
<th>AREA B</th>
<th>AREA C</th>
<th>TOWN LOCATION</th>
<th>AREA A</th>
<th>AREA B</th>
<th>AREA C</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASST/15HD</td>
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<td>2.2x2.2x1.2</td>
<td>1.8x1.8x1</td>
<td>2x2x1</td>
<td>2x2x1.2</td>
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</tr>
<tr>
<td>ASST/20HD</td>
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<td></td>
<td>2.3x2.3x1.2</td>
<td>2.5x2.5x1.2</td>
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<td>2.2x2.2x1.2</td>
<td>2.2x2.2x1.2</td>
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<td>ASST/25HD</td>
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<td>2.7x2.7x1.2</td>
<td>2.8x2.8x1.2</td>
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<td>2.7x2.7x1.3</td>
<td>2.7x2.7x1.3</td>
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</tbody>
</table>

**Towers with ladder and fall arrest**

- **Foundations sizes are W x W x D** - Dimensions in metres
- **For foundations sizes – a minimum soil bearing pressure of 100kN/m² is assumed**
- **Minimum concrete grade C28/35**
- **Allow 72 hours after pouring concrete before installing pole or tower**

Please note foundation sizes shown in the table above are in accordance with recommended headload and wind load capacities shown in technical specification tables.

For increased headloads – foundations may need to increase in size – please contact us for revised foundation sizes for specific installations.

---

**Typical Installation Method**

1. Excavate foundation pit as per size stated.
2. Shutter off top edge of foundation pit.
3. Set tower anchor frame into pit - supported by 2 No. wooden bearers spanning the pit and level.
4. Top of frame to be level within 2mm.
5. Add steel reinforcing bars as per specific installation data sheet.
6. Position cable ducts if applicable.
7. Check tower anchor legs for level during and after pouring concrete. Anchor legs being level is imperative for the correct installation of the tower.

---

**Notes**

1. Safety factor on foundation to resist overturning of > 2.
2. Foundation shall be founded on natural ground with minimum safe bearing capacity of 100kN/m² or better.
3. Allow a minimum of 7 days after pouring concrete before installing tower.
4. Concrete grade C28/35.
Modular Towers & Columns

## Foundation & Bolting Details

### Table 1: Foundation Sizes for the UK

<table>
<thead>
<tr>
<th>Model NO.</th>
<th>Height</th>
<th>Base Flange</th>
<th>Centre-P.</th>
<th>Base Plate (mm)</th>
<th>Service Entry Size</th>
<th>Service Entry Position for Cable Duct</th>
<th>H.F. &amp; C.E.</th>
<th>Service Entry Size</th>
<th>H.F. &amp; C.E.</th>
<th>M.T.S.</th>
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### Notes:

- For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these.
- A minimum soil bearing capacity of 75 kN/m² is assumed.
- Foundation base dimensions are typical and may vary depending on site conditions.
- Please refer to the foundations & windloading section on pages 101-103 for further guidance.

---

**Modular Towers & Columns**

**ANCT - Nested towers**

- ANCT/4
  - 4 x 420
  - 570
  - 370x250
  - M4x245
- ANCT/6
  - 6 x 420
  - 570
  - 370x250
  - M4x245
- ANCT/8
  - 8 x 420
  - 570
  - 370x250
  - M4x245
- ANCT/10
  - 10 x 420
  - 570
  - 370x250
  - M4x245

**AW1697 - Cabinet based tilt-down columns**

- AW1697/5: 5 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/6: 6 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/7: 7 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/8: 8 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/9: 9 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/10: 10 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/11: 11 x 450
  - 510
  - 430x280
  - M4x245
- AW1697/12: 12 x 450
  - 510
  - 430x280
  - M4x245

**ACC - Telescopic columns**

- ACC/T4/5: 5 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/6: 6 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/7: 7 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/8: 8 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/9: 9 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/10: 10 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/11: 11 x 450
  - 510
  - 430x280
  - M4x245
- ACC/T4/12: 12 x 450
  - 510
  - 430x280
  - M4x245

Due to our policy of continuous product improvement specifications may change without notice.
Altron’s tubular poles provide a comprehensive and versatile range of mounting solutions, suitable for public area locations.

The range comprises of fixed tubular poles, used typically for general CCTV applications; lamp standard poles that fit in with existing street furniture, but are heavy duty, designed specifically for CCTV camera mounting and can also be used for dual lighting and CCTV applications; tilt down tubular poles suitable for public areas, providing the facility to service camera equipment at ground level and tapered tubular poles, that offer an aesthetic appearance to fit in with architectural themes.

Altron’s numerous security design features ensure a good level of protection against vandal attacks.
Height range 3m - 12m

A comprehensive range of high specification poles, that cater for light, medium and heavy duty CCTV applications, therefore offering cost effective mounting solutions tailored to the individual installations requirements. A full range of accessories are available to ensure appropriate and high quality installations.

Typically used for the following types of installation
- Industrial and commercial premises
- Perimeter detection
- Schools and universities
- Railway platforms & car parks
- Car parks
- Public area CCTV
- Retail Parks
- Sports stadia

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks

General Features
- Available in 3 duties; light, medium and heavy duty to accommodate all types of camera installations
- Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with treated backboard
- Available in bolt down and embedded/direct burial versions
- A wide range of standard Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- Also available in 316 stainless steel, architectural finish
- For design, manufacturing and finishing standards, see details on page 107
Tubular Fixed Poles

**Technical Specification**

### Tubular Poles

**Technically Specified Poles**
- Light duty - typically for fixed camera and small dome installations
- Medium duty - typically for light PTZ and larger dome installations
- Heavy duty - typically for large fully functional PTZ, offset camera loads where min deflection is required

### AW2207 Tapered Poles

**Model No.**
- AW3207/8
- AW3207/7
- AW3207/6
- AW3207/5
- AW3207/4
- AW3207/3

**Height**
- 140
- 140
- 114
- 114
- 114
- 114

**Max Equip Weight at Pole Top**
- 140
- 140
- 114
- 114
- 114
- 114

**Max Equip Surface Area**
- 0.4
- 0.4
- 0.4
- 0.4
- 0.4
- 0.4

**Pole ØB**
- 285
- 267
- 249
- 198
- 187
- 187

**Door aperture size H x W**
- 360 x 170
- 360 x 160
- 360 x 140
- 360 x 135
- 360 x 115
- 360 x 115

**Pole Weight**
- 293
- 265
- 208
- 110
- 93
- 93

### Options

- Access cover plate and cable restraining bar /AC
- Decorative banding /B
- High security locks /MS
- Screw in swan neck adaptor /SN
- Tamper switch /TS
- Double Door /DD
- Lighting spigot /LS

**Accessories**
- Top mounting brackets for Fixed and PTZ cameras /P76
- Swanneck brackets for Dome cameras /P81
- Anti-climb guards /P77
- Clamp-on camera mounting brackets /P79
- Telemetry box mounting brackets /P77
- Pole top mounting cages /P83
- PIR mounting ring /P84

**Quick reference**
- Single fixed camera knuckle /PTS-I
- Twin fixed camera bracket /TB2I-600F
- Half swanneck for dome /AW1699H
- Full swanneck for dome /AW1699F
- Anti climb guard /SGC
- PIR mounting ring /AW1962
- Accessory bracket /ATBC

**Due to our policy of continuous product improvement specifications may change without notice**
AW1502 Lamp Standard Pole

**Height range 3m - 15m**

Altron lamp standard CCTV poles are a versatile, high specification range of poles, designed to look like traditional lamp posts, but are very heavy duty, specifically to give the rigidity required for CCTV camera mounting. The range is ideal for medium to heavy duty applications, including dual CCTV and lighting, where we offer a full range of accessories to support this use. There are also lighter duty (LD) models, which are more economically suited for fixed camera and light PTZ installations.

**Typically used for the following types of installation**
- Public area urban CCTV
- Highways
- Industrial and commercial premises
- Schools and universities
- Railway platforms & car parks
- Car parks
- Retail Parks
- Sports stadia

**Security Features**
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks
- Anchor bolts below ground level

**General Features**
- Stable structures for all camera types
- Versatile range with many accessories for both CCTV and dual lighting use
- Double door versions available for dual CCTV and lighting, keeping services separate
- Enlarged door version available where additional equipment mounting capacity is required
- Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with treated backboard
- Available in bolt down and embedded/direct burial versions
- A wide range of standard Altron accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- Also available in 316 stainless steel, architectural finish
- For design, manufacturing and finishing standards, see details on page 107
AW1502 Lamp Standard Pole Technical Specification

**AW1502**

- **Dual Lighting/CCTV**
- **Ornate**
- **Standard**

**Options**

<table>
<thead>
<tr>
<th>PT No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC</td>
<td>Access cover plate and cable restraining bar</td>
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<tr>
<td>B</td>
<td>Decorative banding</td>
</tr>
<tr>
<td>HS</td>
<td>High security locks</td>
</tr>
<tr>
<td>SN</td>
<td>Screw in swan neck adaptor</td>
</tr>
<tr>
<td>W</td>
<td>Washer bottle conduit</td>
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<tr>
<td>DD</td>
<td>Double door</td>
</tr>
<tr>
<td>ENAP</td>
<td>Enlarged door aperture</td>
</tr>
<tr>
<td>TS</td>
<td>Tamper switch</td>
</tr>
<tr>
<td>AS</td>
<td>Lighting spigot</td>
</tr>
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</table>

**Accessories**

- Top mounting brackets for Fixed and PTZ cameras: P76
- Swanneck brackets for Dome cameras: PB1
- Anti-climb guards: P77
- Clamp-on camera mounting brackets: P79
- Telemetry box mounting brackets: P77
- Pole top mounting cages: PB3
- PIR mounting ring: PB4

**Quick reference**

- Single fixed camera knuckle: PTS-1
- Twin fixed camera bracket: TB2-400F
- Half swanneck for dome: AW1699H
- Full swanneck for dome: AW1699F
- Anti climb guard: SGC
- PIR mounting ring: AW1962
- Accessory bracket: ATBC

**Embedded Base**

- All camera mounting plates are Ø 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD. Ø 40 thro’ column spacer
- Poles complete with treated equipment mounting board inside compartment. Earthing lugs within pole and on door

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Height in mtrs</th>
<th>Max equip weight at top</th>
<th>Max equip surface area</th>
<th>Shaft ØB2</th>
<th>Base ØB2</th>
<th>Base height</th>
<th>Door aperture size HxW</th>
<th>Product weight in kgs</th>
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<td>425x177</td>
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Where payloads are greater than those stated above, please contact Altron

All dimensions in mm unless stated otherwise

Due to our policy of continuous product improvement specifications may change without notice

www.altron.co.uk
AW1859 & AW4460
Tubular Tilt Down Poles

Height range 4m - 12m

The AW4460 is a light duty tilt down tubular pole more suitable for fixed camera and dome installations, whereas the AW1859 range is a heavier duty product suitable for medium to heavy PTZ applications. Both products give a neat and aesthetic appearance and are suitable for installations where the public have access, whilst enabling camera equipment to be serviced at ground level. Flush doors and secure locks make these secure products, designed for security installations. A full range of standard accessories back up this comprehensive range of tilt down poles.

Typically used for the following types of installation
- Industrial and commercial premises
- Perimeter detection
- Schools and universities
- Prisons and detention facilities
- Railway platforms & car parks
- Car parks
- Public area CCTV
- Retail Parks
- Sports stadia

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks
- Internal padlock facility to protect against un-authorised lowering
- Can be mounted with anchor bolts below ground level

General Features
- Stable structures for all camera types
- Suitable for public access areas
- Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with treated backboard
- Available in bolt down and embedded/direct burial versions
- A wide range of standard Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- Also available in 316 stainless steel, architectural finish
- For design, manufacturing and finishing standards, see details on page 107
AW1859/4460 Tubular Tilt Down Pole

Technical Specification

Options

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<th>PT No.</th>
<th>Description</th>
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<tbody>
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<td>AC</td>
<td>Access cover plate and cable restraining bar</td>
</tr>
<tr>
<td>A</td>
<td>Decorative banding</td>
</tr>
<tr>
<td>B</td>
<td>High security locks</td>
</tr>
<tr>
<td>SN</td>
<td>Screw-in swan neck adapter</td>
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<td>AL</td>
<td>Lighting spigot</td>
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</table>

AW1859 & AW4460 Tubular Poles Fixed & Tilt Down

All camera mounting plates are Ø 127 with 8 No Ø 8.5 equi-spaced on 101.6 PCD. Ø 40 thro' column spacer

Model No. | Height in mtrs | Max equip weight at pole top kgs | Max equip surface area m² | Pole ØB | Post Ø D | Post height C | Pole rear clearance when tilting F | Door aperture H x W | Winch part number | Product weight kgs |
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<td>DW1000/60</td>
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<td>2000</td>
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<td>1800</td>
<td>500x110</td>
<td>DW1500/60</td>
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</tbody>
</table>

AW4460 TILT-DOWN POLES - suitable for loads up to light PTZ and dual dome applications

AW1859 TILT-DOWN POLES - suitable for heavier PTZ applications and for heights up to 12m

Where payloads are greater than those stated above, please contact Altron
All dimensions in mm unless stated otherwise

Due to our policy of continuous product improvement specifications may change without notice

www.altron.co.uk
## Tubular Poles - Fixed & Tilt-Down

**Foundations & Bolting Details**

**Tubular Poles - Fixed & Tilt-Down**

**Dimensions in metres**

| Foundation sizes in table are W x W x D |

### Medium duty

- **AW1859**
  - 4m:
    - 350 x 405 x 200
    - 200 x 245
  - 5m:
    - 405 x 450 x 200
    - 245 x 250
  - 6m:
    - 450 x 450 x 200
    - 250 x 250
  - 7m:
    - 510 x 510 x 250
    - 250 x 250
  - 8m:
    - 510 x 510 x 250
    - 250 x 250
  - 9m:
    - 510 x 510 x 250
    - 250 x 250
  - 10m:
    - 510 x 510 x 300
    - 300 x 250
  - 12m:
    - 700 x 800 x 300
    - 300 x 250
  - 15m:
    - 700 x 800 x 300
    - 300 x 250

### Heavy duty

- **AW1507/4**
  - 4m:
    - 800 x 800 x 300
    - 300 x 250
  - 5m:
    - 800 x 800 x 350
    - 350 x 250
  - 6m:
    - 800 x 800 x 400
    - 400 x 250
  - 7m:
    - 800 x 800 x 400
    - 400 x 250
  - 8m:
    - 800 x 800 x 400
    - 400 x 250
  - 9m:
    - 800 x 800 x 400
    - 400 x 250
  - 10m:
    - 800 x 800 x 400
    - 400 x 250
  - 12m:
    - 800 x 800 x 400
    - 400 x 250

### Tapered tubular poles

- **AW207/4**
  - 4m:
    - 800 x 800 x 400
    - 400 x 250
  - 5m:
    - 800 x 800 x 400
    - 400 x 250
  - 6m:
    - 800 x 800 x 400
    - 400 x 250
  - 7m:
    - 800 x 800 x 400
    - 400 x 250
  - 8m:
    - 800 x 800 x 400
    - 400 x 250
  - 9m:
    - 800 x 800 x 400
    - 400 x 250
  - 10m:
    - 800 x 800 x 400
    - 400 x 250
  - 12m:
    - 800 x 800 x 400
    - 400 x 250

**Table dimensions in mm**

- For area A locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for confirmation of these.
- A minimum soil bearing capacity of 75 kN/m² is assumed.
- Foundation base dimensions are typical and may vary depending on site conditions.
- Please refer to the foundations & windloading section on pages 101-103 for further guidance.

---

**GALVANISED HOLDING DOWN BOLTS**

**2-Off galvanised full nuts**

**2-Off galvanised flange plate**

**2-Off galvanised flat washer**

---

**B Buried depth below ground level**

---

*Due to our policy of continuous product improvement specifications may change without notice*
Altron Cabinet Based Poles are versatile and robust with the facility for 2 or more compartments therefore making them ideal for multiple use installations - such as CCTV and traffic light mounting.
Altron AW1545 cabinet based camera poles were originally introduced in 1994 as the first CCTV cabinet based pole product. They have been used and specified extensively since then and are now a common feature in urban areas throughout the UK. Ideal for mounting camera equipment within, they provide a cost effective installation and reduce street furniture and clutter. The tilt-down range enables camera equipment to be serviced easily at ground level, without the need for a man lift. Recent developments have been aimed at producing a clean and aesthetic outline, whilst enhancing security, so close fitting flush doors and our heavy duty secure locks are now common across the range.

The AW2075 Cylindrical cabinet based version, with parallel or tapered shafts are popular for installations with an architectural theme.

Altron’s numerous security design features ensure a good level of protection against vandal attacks.
These Features in Equipment & Construction are Common Across the AW1545 Range

1. Casing produced from stainless steel bar - cannot be sheared across face.
2. Spindle made from stainless steel with positive shoulder - means it cannot be driven through casing.
3. Close fitting key on oval centre pin means lock cannot be picked or operated with anything other than the correct key.
4. Heavy duty latch resists lever attacks.
5. Flush door with 1mm clearance resists lever attacks.

ALTRON SECURE LOCK FEATURES

CONVECTION VENTING
Air within pole is warmed - either by equipment within pole or by solar gain - warm air rises up pole & draws cool air through lower vents - this cools equipment and limits condensation.

SPECIAL GRADE WELDING WIRE
When seam welding with standard welding wire after grinding flush a build up of galvanising occurs on the weld seam in the galvanising process known as weld growth. To stop this unsightly seam or the need to dress down (sometimes this dressing goes through the galvanising to bare metal) Altron uses a special grade of wire which does not cause weld growth, therefore improving the galvanising finish.

Due to our policy of continuous product improvement specifications may change without notice.
Options of Urban Highway Poles

**Options of Urban Highway Poles**

**HEAD OPTIONS**

AVAILABLE FOR

<table>
<thead>
<tr>
<th>02</th>
<th>45</th>
<th>75</th>
<th>75TD</th>
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**Upper (Exhaust) Vents**

FOR BOLT ON SWAN NECKS

FOR SCREW IN SWAN NECK - NEAT APPEARANCE AND 360 DEGREE ADJUSTMENT

**NICKEL PLATED BRASS CONDUIT**

ELBOW M25/M32

CABLE OUTLET Ø25 AS STANDARD

OPTIONS

2X25 THREADED

1X32 THREADED SP (SPIGOT)

LS (LAMP SPIGOT)

CABINET BASED POLES

Due to our policy of continuous product improvement specifications may change without notice.

www.altron.co.uk
Fixed height range 4m - 15m  
Tilt Down height range 4m - 12m

Designed to meet the specific demands of urban area CCTV, our range of high specification cabinet based poles come as standard with venting, high security locks and high capacity, good quality, treated back boards. With many cabinet sizes, door options and head mounting options, backed up with a full range of accessories, the AW1545 UP pole range offers a comprehensive solution for urban CCTV installations.

Typically used for the following types of installation
- Public area urban CCTV
- Highways
- Industrial and commercial premises
- Schools and universities
- Prisons and detention facilities
- Utilities sites
- Railway platforms & car parks
- Car parks
- Retail Parks
- Sports stadia

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks and high security lock
- Secure venting method
- Internal padlock facility on tilt down poles to protect against un-authorised lowering
- Anchor bolts below ground level

General Features
- Stable structures for all camera types
- Available in 6 standard cabinet sizes, 300, 350, 400, 450, 500 and 600 square (400mm square as standard if not specified)
- Flush fitting door, level with cabinet surface, no external frame combined with flush fitting Altron secure locks and a high security lock giving enhanced security and a clean aesthetic appearance
- 4 point security door locking option
- Standard convection venting eliminates condensation (when the pole base is properly sealed on installation)
- Baffle vents to IP55 available as option
- Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- A wide range of standard Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- Also available in 316 stainless steel, architectural finish
- For design, manufacturing and finishing standards, see details on page 107
AW1545/UP Cabinet Based Pole
Technical Specification

Options

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<tr>
<th>Options</th>
<th>PT No.</th>
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<td>Double door with washer bottle conduit</td>
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<td>/AC</td>
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<tr>
<td>Tamper switch</td>
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AW1545UP TD

AW1545/4/UP
AW1545/5/UP
AW1545/6/UP
AW1545/7/UP
AW1545/8/UP
AW1545/8/UP/219
AW1545/9/UP
AW1545/10/UP
AW1545/12/UP
AW1545/15/UP

AW1545UP-Fixed Heavy Duty

Suitable for long offset arms or dual CCTV and lighting applications etc – or high rigidity

AW1545/8HD/UP
AW1545/10HD/UP

AW1545UP TD-Tilt Down

AW1545/4TD/UP
AW1545/6TD/UP
AW1545/8TD/UP
AW1545/10TD/UP
AW1545/12TD/UP

Model No. | Height in mtrs | Max. Equip. weight at top kgs | Max. Equip. surface area m² | Pole ØB mm | Cabinet height above ground S mm | Pole rear clearance when tilting F° | Winch part number | Product weight kgs |
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AW1545/4TD/UP
AW1545/6TD/UP
AW1545/8TD/UP
AW1545/10TD/UP
AW1545/12TD/UP

Where payloads are greater than those stated above, please contact Altron
All dimensions in mm unless stated otherwise

Due to our policy of continuous product improvement specifications may change without notice
www.altron.co.uk
Fixed height range 4m - 12m
Tilt Down height range 4m - 12m

The ‘basic’ AW1545 BAS cabinet based pole range offers a cost effective means of mounting CCTV equipment within the one pole structure. More commonly used for industrial and commercial type installations, it does not have venting and high security locks, that come as standard on the UP range, but does offer the other security features common to our cabinet based poles and also the clean, aesthetic appearance, common to the AW1545 ranges and is backed up with a full range of accessories.

Typically used for the following types of installation
- Public area CCTV
- Industrial and commercial premises
- Schools and universities
- Prisons and detention facilities
- Utilities sites
- Railway platforms & car parks
- Car parks
- Retail Parks
- Sports stadia

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks
- Internal padlock facility on tilt down poles to protect against un-authorised lowering

General Features
- Stable structures for all camera types
- Available in 6 standard cabinet sizes, 300, 350, 400, 450, 500 and 600 square (350mm square as standard if not specified)
- Flush fitting door, level with cabinet surface, no external frame combined with flush fitting Altron secure locks giving enhanced security and a clean aesthetic appearance
- Treated wooden backboard within cabinet
- 4 point security door locking option
- Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- A wide range of standard Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107
AW1545/BAS Cabinet Based Pole Technical Specification

Options

<table>
<thead>
<tr>
<th>PT No.</th>
<th>Decorative banding</th>
<th>Screw in Swan Neck adaptor</th>
<th>Double door</th>
<th>Double door with washer/bottle conduit</th>
<th>Access cover plate and cable restraining bar</th>
<th>Full connection venting</th>
<th>High security locks</th>
<th>Altron locks in 4-point arrangement</th>
<th>Tamper switch</th>
<th>Lighting spigot</th>
<th>Cabinet base size</th>
<th>Options</th>
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</tbody>
</table>

AW1545BAS TD

Pole is fixed in the vertical position using 2 no. bolts and locked with internal nuts - has the facility to be padlocked internally to stop unauthorised tilting.

Poles complete with treated equipment mounting board inside compartment. Earthling lugs within pole & on door

AW1545/4/BAS TD/BAS

Top mounting brackets for Fixed and PTZ cameras

Swanneck brackets for Dome cameras

Anti-climbing guards

Clamp-on camera mounting brackets

Telemetry box mounting brackets

Pole top mounting cages

PIR mounting ring

AW1545/BAS TD-Tilt Down

Where payloads are greater than those stated above, please contact Altron

All dimensions in mm unless stated otherwise

AW1545/4/BAS TD/BAS

AW1545/6/BAS TD/BAS

AW1545/8/BAS TD/BAS

AW1545/10/BAS TD/BAS

AW1545/12/BAS TD/BAS

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www.altron.co.uk
Fixed height range 4m - 10m
Tilt Down height range 4m -10m

An architectural range of high specification cabinet based poles based on the AW1545 UP pole specification, but with a cylindrical cabinet and either a parallel or tapered pole shaft. These poles come as standard with venting, high security locks and high capacity, good quality, treated back boards.

Typically used for the following types of installation
- Public area urban CCTV
- Retail Parks
- To fit in with other architectural tapered street furniture
- Sports stadia

Security Features
- Internal cabling
- Solid secure heavy duty door locks and high security lock
- Secure venting method
- Additional security measures available
- Internal padlock facility on tilt down poles to protect against un-authorised lowering
- Anchor bolts below ground level

General Features
- Stable structures for all camera types
- 4 point security door locking option
- Standard convection venting eliminates condensation (when the pole base is properly sealed on installation)
- Baffle vents to IP55 available as option
- Demountable winches allow for a secure installation whilst also reducing costs on multiple installations
- A wide range of standard Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- Also available in 316 stainless steel, architectural finish
- For design, manufacturing and finishing standards, see details on page 107
The AW2075 range can be supplied with either a parallel or tapered shaft.

**AW2075TD**

**AW2075**

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### Options

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<td>Screw in Swan Neck</td>
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<td>Cable restraining bar</td>
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<td>Lighting spigot</td>
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The AW2075 range can be supplied with either a parallel or tapered shaft.

**AW2075/4**

**AW2075/5**

**AW2075/6**

**AW2075/7**

**AW2075/8**

**AW2075/9**

**AW2075/10**

**AW2075 TD-Tilt down**

**AW2075/4TD**

**AW2075/6TD**

**AW2075/8TD**

**AW2075/10TD**

---

Where payloads are greater than those stated above, please contact Altron.

All dimensions in mm unless stated otherwise.

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Due to our policy of continuous product improvement specifications may change without notice.
Cabinet Based Poles


due to our policy of continuous product improvement specifications may change without notice

41 www.altron.co.uk
Anti-Vandal Range Pole Specifications

Altron anti-vandal poles have a range of smart design features that ensure they are the toughest products available on the market. They have been successfully installed for many years in inner city areas of Belfast, London, Manchester, Glasgow, Leeds and many other high risk areas.

- Higher initial expenditure, but significant cost savings through not having to replace expensive camera equipment repeatedly
- Reduces camera down time and service call outs
- AW1545/AVD, AW1665 and AW1664 poles look like standard cabinet based camera poles, therefore minimising visual impact
- Fire retardant upgrade to cabinet available on AW1664 and AW1663 pole variations

### Pole Security Features

<table>
<thead>
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<th></th>
<th>AW1545/AVD</th>
<th>AW1665</th>
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<tbody>
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<td>Anti-Ram Base</td>
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<td>Dead Bolt Door Locking Mechanism</td>
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<td>Heavy Wall Cabinet</td>
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<td>Strengthened Base Plate and Increased Holding Down Capacity</td>
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<td>High Security Door Locks</td>
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<td>Double Door Access</td>
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<td>Holding Down Bolts Below Ground Level</td>
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<td>Stainless Steel Hinges on Outer Door</td>
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- AW1545/AVD not shown below is based on the AW1545/UP cabinet based pole range (see p35)
- All poles are hot dip galvanised to ISO 1461 as standard and painting to colours from BS and RAL colour charts, over the galvanised finish is available as an optional extra

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Due to our policy of continuous product improvement specifications may change without notice

www.altron.co.uk 42
Altron ornate camera poles are used extensively throughout Central London.

AW1545/8 with westminster embellishment to customer specification

AW1502/10 with westminster embellishment to customer specification
Altron ornate poles are based on our cabinet based AW1545 UP range and our AW1502 lamp standard range. They incorporate all of the benefits of these standard pole ranges, but are appropriate for historic and sensitive locations where the camera pole needs to blend in with surrounding street furniture and architecture. The standard range is made up of the most popular variations, but we can also provide poles with a specific architectural theme for individual projects.

Altron’s numerous security design features ensure a good level of protection against vandal attacks.
**AW1545 - ENEK-HNEK-TNEK**  
Height range 4m - 15m

Ornate versions of the AW1545 UP cabinet base pole range, incorporating cast embellishment kits to enhance the pole appearance. Ideally suited to areas of historical or architectural importance where CCTV systems are required to blend aesthetically with their surroundings. A full range of ornate brackets and accessories ensure an authentic installation.

**Typically used for the following types of installation**
- Public area urban CCTV
- Historic sites
- Private residences

**Security Features**
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks and high security lock
- Secure venting method
- Additional security measures available
- Anchor bolts below ground level

**General Features**
- Stable structures for all camera types
- Flush fitting door, level with cabinet surface, no external frame combined with flush fitting Altron secure locks and a high security lock giving enhanced security and a clean aesthetic appearance
- 4 point security door locking option
- Standard convection venting eliminates condensation (when the pole base is properly sealed on installation)
- A wide range of ornate Altron Accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107

**AW1502 - ENEK**  
Height range 4m - 10m

Ornate version of the AW1502 lamp standard range. The cast embellishment kits enhance the pole appearance and are often used to match ornate features of existing lighting columns to bring conformity to street furniture but ensuring cameras are on a stable pole built for CCTV use. A full range of ornate brackets and accessories ensure an authentic installation.

**Typically used for the following types of installation**
- Public area urban CCTV
- Historic sites
- Private residences

**Security Features**
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks and high security lock
- Anchor bolts below ground level

**General Features**
- Stable structures for all camera types
- Versatile range with many accessories for both CCTV and dual lighting use
- Double door versions available for dual CCTV and lighting, keeping services separate
- Compartments have doors that are close fitting and flush with heavy duty secure locks and are complete with treated backboard
- Available in bolt down and embedded/direct burial versions
- A wide range of ornate Altron accessories and Brackets available
- Pole adaptations available to suit customers/project specific requirements
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107
### Accessories

**Ornate top mounting brackets for Fixed and PTZ cameras**

- **AW1545 HNEK**
- **AW1545 ENEK**
- **AW1545 TNEK**
- **AW1502 ENEK**

**Anti-climb guards**

**Telemetry box mounting brackets**

**PIR mounting ring**

---

### Quick reference

- **Pole top dome brkt**
- **Pole top Fixed**
- **Pole top PTZ brkt**
- **Accessory bracket**

---

**Model No.**

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<td>168</td>
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<td>1500</td>
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<td>AW1545/10</td>
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<td>168</td>
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<td>1500</td>
<td>1300</td>
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<td>180</td>
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<td>AW1502/7</td>
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<td>25</td>
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<td>1500</td>
<td>1500</td>
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<td>AW1502/8</td>
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<td>25</td>
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<td>1500</td>
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<td>216</td>
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</tr>
</tbody>
</table>

---

Where payloads are greater than those stated above, please contact Altron

All dimensions in mm unless stated otherwise

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Due to our policy of continuous product improvement specifications may change without notice

www.altron.co.uk
Altron embellishments are produced to a high standard in cast aluminium or cast iron. Our standard embellishment ranges are shown in detail below. We also provide castings designed to meet specific customer requirements, examples are shown on p43, embellishments produced for Westminster Council.

AW1545 HNEK  AW1545 TNEK  AW1545 ENEK  AW1502 ENEK

Ornate Poles
Ornate Brackets

All brackets available in all 3 styles, other styles made to order

**Ornate Styles**

- Simple Ornament - S
- Newcastle Scroll - N
- Edinburgh Hoop - E

Change part number suffix to suit ornate style required

**Pole Mounting Brackets**

- **PT-1689-N** Ornate Pole top mounting bracket
- **PT-1689-N/SPT** Ornate pole top mount bracket for PTZ camera
- **PMB-1689-N** (Pole diameter) Ornate pole mounting bracket

**Wall Mounting Brackets**

- **C-1689-N** Ornate corner mounting bracket
- **W-1689-N** Ornate wall mounting bracket

Also available in wall & corner mount up to 2000mm stand off Pt No. AW2058

Due to our policy of continuous product improvement specifications may change without notice
### Ornate Poles

#### Foundation & Bolting Details

**Table dimensions in mm**

**Dimensions in metres**

**Foundation sizes in table are W x W x D**

*Model No.*

<table>
<thead>
<tr>
<th>Foundation Base</th>
<th>Model No.</th>
<th>W x W x D</th>
<th>M24x325</th>
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</thead>
<tbody>
<tr>
<td>Cabinet Base</td>
<td>AW1502/2</td>
<td>350 x 350</td>
<td>625 x 625</td>
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<tr>
<td>Cabinet Base</td>
<td>AW1502/3</td>
<td>405 x 405</td>
<td>625 x 625</td>
</tr>
<tr>
<td>Cabinet Base</td>
<td>AW1502/4</td>
<td>405 x 405</td>
<td>625 x 625</td>
</tr>
<tr>
<td>Cabinet Base</td>
<td>AW1502/5</td>
<td>405 x 405</td>
<td>625 x 625</td>
</tr>
<tr>
<td>Cabinet Base</td>
<td>AW1502/6</td>
<td>405 x 405</td>
<td>625 x 625</td>
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<tr>
<td>Cabinet Base</td>
<td>AW1502/7</td>
<td>450 x 450</td>
<td>625 x 625</td>
</tr>
<tr>
<td>Cabinet Base</td>
<td>AW1502/8</td>
<td>450 x 450</td>
<td>625 x 625</td>
</tr>
</tbody>
</table>

For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the table on page 101 for confirmation of these.

For area D locations and exposed locations over 100m above sea level for areas A, B and 150m above sea level for area C, we recommend increased foundation sizes. Please refer to the foundations & windloading section on pages 101-103 for further guidance.

*Due to our policy of continuous product improvement specifications may change without notice.*

**Refer to Installation Methods on Pages 104-106**
Altron Produce a range of products to satisfy most highways applications. Lowering trolley head poles that comply with HA requirements, deployable products for temporary road works and cantilever poles for ANPR and variable speed monitoring.

Altron’s numerous security design features ensure a good level of protection against vandal attacks.
We have developed a range of features for our Lowering Trolley Head poles, to make them easy, reliable and above all, safe to use. These features mean that a pole with the relevant options included, can be operated by one man standing on the ground, without the need for steps, or the need to support heavy camera loads, when lowering the camera into the upright maintenance position. This therefore is the safest and easiest to operate Lowering Trolley Head pole available on the market today.

Altron's numerous security design features ensure a good level of protection against vandal attacks.
Lowering Trolley Head Poles

Height ranges AW1545/LTH & AW1502/LTH  4m - 15m  
Height range AW1502/LTH/168 Slim-line  4-10m

Altron Lowering Trolley Head Poles enable CCTV equipment to be serviced at ground level, safely, without the need for a man lift or a clear area to tilt the pole over. This is particularly useful in locations where road closures would otherwise be required, pavement locations and pedestrianised areas or where it is not possible to get a man lift and there is no space to tilt the pole over. The AW1545 cabinet based version offers a fully integrated solution, where equipment is mounted in the base of the pole, so no separate street cabinet is required.

Typically used for the following types of installation
- Where access to the camera location is restricted
- Public area urban CCTV
- Highways
- Prisons and detention facilities
- Railway platforms & car parks
- Car parks
- Retail Parks
- Sports stadia

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks and high security lock
- Secure venting method
- Internal padlock facility available to stop unauthorised access to winch mechanism
- Anchor bolts below ground level

General Features
- Stable structures for all camera types
- Design complies with Highways Agency specification.
- Trolley Head locks solidly in the raised position by means of a cam lever uplatch, meaning that there is no movement in the Trolley Head when the camera is in operation.
- AW1545/LTH cabinet based version also available with 500 square cabinet for additional equipment mounting capacity.
- Flush doors and secure locks as standard, enhance security and appearance.
- Standard convection venting on AW1545/LTH version eliminates condensation (when the pole base is properly sealed on installation)
- A wide range of standard Altron Accessories available
- Constructed in high tensile steel and hot dip galvanised after fabrication for durability
- Option of painting over the galvanised finish in colours available from BS and RAL colour charts
- For design, manufacturing and finishing standards, see details on page 107

Pole Options Explained

Our lowering trolley head pole range is made up of the basic units, part numbers AW1502/LTH and AW1545/LTH. We offer a full range of upgrades as additions to the basic poles, as outlined below. All additional options are explained further in the following pages.

**Basic pole (AW1502/LTH)**
Lamp standard version with no back board within the winch compartment. Winch is auto-braking and manually operated and the trolley head neck is fixed. Quick release uplatch included as standard. Trackway is extra.

**Basic pole with cabinet base (AW1545/LTH)**
As the AW1502/LTH, but with a cabinet base. There are twin doors as standard, front and back with equipment mounting boards within both compartments. Trackway is extra.

**Addition /DO, Drill Operated dual drum winch**
This winch requires the Drill winding unit DW/DO to operate it. This enables the trolley head to be lowered using the DW/DO, rather than the manually operated winch. Winch has dual drum, so two cables are employed, with the second cable as a failsafe. Trackway is fitted as standard with this option.

**Addition of /TRA, Rotating Arm and /SN-RA Swan Neck Rotating Arm option**
This is ideally suited for dome mounting using our swan neck, or for light PTZ applications. This is a cost effective way of getting camera equipment down to ground level for maintenance. We do not recommend this option for heavier PTZ applications, of loads over 10 kgs.

**Addition of /CM, Cable Management**
Cable management enables camera cables to be disconnected and marshalled through the pole automatically.

**Cable pulley configurations**
A number of pulley configurations are available for the head of the pole, depending on the type of cable being used to feed the camera. Please contact our Sales team who will provide further information and advice.
### AW1502/LTH/168/SN Slimline Lamp Standard

**1502 LTH Lamp Standard**

**1545 LTH Cabinet Based**

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#### Technical Specifications

**AW1545/LTH & AW1502/LTH Options**
- Decorative Banding (on Cabinet only) /B
- Altron 4 Point Locking /A4P
- Trackway Upgrade (for manually operated poles) /TR
- Dual drum Winch & Drill Winding Device Upgrade (includes trackway) /DW/DW
- Drill Winding Device /DWO
- Drop Down Arm for 15kg camera /DDA/15
- Drop Down Arm for 30kg camera /DDA/30
- Cable Management System (up to 10m) /CM
- Rotating Arm /RA
- Swan Neck Rotating Arm /SN-RA

**AW1502/LTH only Options**
- High Security Lock /HS

**AW1545/LTH Cabinet & Door Configurations**

**Accessories**
- Manual Winch Winder for Dual Drum Winch /MW/W
- Support Bracket for Drill Winding Device /DSB
- Internal Padlock Plate /IPP

---

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Height in mtrs</th>
<th>Max equip weight at top kgs</th>
<th>Max equip surface area m²</th>
<th>Pole ØB</th>
<th>Cabinet height above ground C</th>
<th>Front door size H x W</th>
<th>Rear door size H x W</th>
<th>Product weight kgs</th>
</tr>
</thead>
<tbody>
<tr>
<td>AW1545/4LTH</td>
<td>4</td>
<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>281</td>
</tr>
<tr>
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<td>5</td>
<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>310</td>
</tr>
<tr>
<td>AW1545/6LTH</td>
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<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>339</td>
</tr>
<tr>
<td>AW1545/7LTH</td>
<td>7</td>
<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>368</td>
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<td>AW1545/8LTH</td>
<td>8</td>
<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>397</td>
</tr>
<tr>
<td>AW1545/9LTH</td>
<td>9</td>
<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>513</td>
</tr>
<tr>
<td>AW1545/10LTH</td>
<td>10</td>
<td>30</td>
<td>0.25</td>
<td>219</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>548</td>
</tr>
<tr>
<td>AW1545/10HDLTH</td>
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<td>30</td>
<td>0.25</td>
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<td>273</td>
<td>1300</td>
<td>970x270</td>
<td>520x270</td>
<td>910</td>
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</tbody>
</table>

Where payloads are greater than those stated above, please contact Altron.

All dimensions in mm unless stated otherwise.
Lowering Trolley Head Poles
Options & Features

Safety Features

**Two winch cables** - on DO version, means that there is a failsafe back up cable should there ever be a problem with the main winch cable.

**Slow free run speed of dual drum winch** - In the unlikely event of a winch failure, due to the high gearing ratio of the DO winch unit, the trolley head descends at less than 1 metre per second and comes to rest on the pole shoulder, without any damage taking place.

**Failsafe of auto-braking manual winch** - For manual winches, the breaking mechanism closes and locks if the friction brake pad should fail, therefore no run-away can take place.

**Extensive ‘full life’ testing** - we have gone through rigorous testing of the winch, cable and trolley head components to replicate more than 10 years of operation. All parts are manufactured to be either maintenance free, or give maximum life to first maintenance.

**Uplatch**
Uplatch with quick release - Altron’s unique cam latch system locks the trolley head into the top canopy so that there is no movement or vibration in the trolley head when raised and means that the winch cables do not hold the trolley head in the raised position. The quick release up-latch mechanism is quick and easy to use.

**Cable Management / CM**
Altron’s unique system means that the camera feeder cables are marshalled inside the pole shaft when the trolley head is being lowered. There is no need for an additional loop of cable or for a lanyard to be held, whilst operating the pole, therefore a one man operation.
HEAVY DUTY PIVOT LOCKS
CAMERA SOLIDLY IN VERTICAL POSITION WHILST IN OPERATION & THEN ALLOWS CAMERA ROTATION FOR MAINTENANCE

GAS STRUT RETRACTED WHEN ARM IN RAISED POSITION

SPRING PLUNGER LOCATES ARM IN RAISED & LOWERED POSITIONS

GAS STRUT EXTENDED WHEN ARM IN LOWERED POSITION

CAMERA ROTATED TO UPRIGHT POSITION TO ENABLE MAINTENANCE

CABLE GLAND PLATE WITH 2x EXIT POINTS

CABLE CLAMP

CAMERA FEEDER CABLE

DIAGRAM SHOWING LEFT & RIGHT HAND ROTATED POSITIONS

LEFT HAND TILT SETTING

RIGHT HAND TILT SETTING

Drop Down Arm / DDA (Patent No. 2476970)
The Drop Down Arm enables camera servicing in the upright position at ground level without the need for steps. The arm takes the weight of the camera equipment so this is an easy, one man operation that is safe to carry out. Camera loads of up to 30kgs can be safely lowered.

Due to our policy of continuous product improvement specifications may change without notice
Cable Connection Box /CCB
This is a water proof box with a removable front panel with sufficient space to allow cable connectors to fit inside. It can be provided with ganged entry and exit.

Swan Neck Rotating Arm /SN-RA
The swan neck lifts the dome above the top of the pole for better coverage and the rotating arm allows the dome to be brought down for maintenance. The arm can be set up on site so that it rotates either to the left or to the right. A connection box can be fitted above the dome so that cable connections can be made close to the dome.

SN-RA Swan Neck Rotating Arm

Cable Connection Box

Swan Neck

Typical Dome

Side Access Panel

Diagram Showing
Left & Right Hand
Rotated Positions

Dual Drum Winch / DO
Drill Winding Device DW/DO
Dual Drum Winch and Drill Winding Device - The dual drum winch gives complete safety with a second 'safety' winch rope. The drill winding device uses the latest battery technology with a speed limiter and torque lock upgrade, specifically for this application to ensure safe, reliable operation. The Drill winding device is light and transferable, so one device can service many poles. This upgrade meets the requirements of PLG07.

DO - Dual drum winch

Internal Padlock Plate / IPP
This is a close fitting internal plate that sits behind the main door, and only comes into view once the door is removed. It will withstand lever attacks and is a second line of defence to make our lowering trolley head poles extremely secure against vandal attacks.

IPP Internal Padlock Plate

Do - Drill winder hand held

Award Winning

Swan Neck Rotating Arm

Dual Drum Winch with susppend Drill Winder

Drill Support Bracket / DSB
Drill Winding Device Support Bracket - this can be incorporated for easy one hand operation and takes the weight of the drill winding device, so operating the pole could not be easier.

DSB - Drill Support Bracket, with Drill winder located in bracket

Trackway / TR
Trackway Upgrade - Trackway keeps the trolley head running true, when lowering and raising even in very windy conditions. This is standard on /DO pole versions.

TR Trackway

Due to our policy of continuous product improvement specifications may change without notice
Lowering Trolley Head Poles

**Foundations & Bolting Details**

**AW1545/LTH**
- Cabinet based, lowering trolley head pole - all variants
- Dimensions in metres
- Foundation sizes in table are W x W x D

- **MODEL NO.**
  - AW1545/LTH
  - AW1502/LTH

- **FOUNDATION SIZES FOR THE UK**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>COUNTRY LOCATION</th>
<th>TOWN LOCATION</th>
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<tbody>
<tr>
<td></td>
<td>AREA A</td>
<td>AREA B</td>
</tr>
<tr>
<td></td>
<td>W x W x D</td>
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</tbody>
</table>

- **For area D locations and exposed locations over 100m above sea level for areas A, B and C, we recommend increased foundation sizes. Please refer to the table on page 101 for conformation of these.**
- **A minimum soil bearing capacity of 75 kN/m² is assumed.**
- **Foundation base dimensions are typical and may vary depending on site conditions.**
- Please refer to the foundations & windloading section on pages 101-103 for further guidance.

**REFER TO INSTALLATION METHODS ON PAGES 104-106**

**AW1502/LTH**
- Lamp standard, lowering trolley head pole - all variants

- **TEMPLATE METHOD**
  - Surface mounted
  - Below surface mounted

- **DIAGRAM FOR AW1502/LTH FROM 10HD UP TO 15M**

- **DIAGRAM FOR AW1545 FROM 10HD UP TO 15M**

- **ANCHOR BOLTS**
  - Screw anchor sockets shown available as an option

- **Due to our policy of continuous product improvement specifications may change without notice**

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**Transport & Infrastructure Products**

www.altron.co.uk 58
With increasing demand for temporary solutions for roadworks and major events, Altron has developed a range of pre-cast foundations that fully comply with HA standards and industry standard foundation requirements. Based on our knowledge gained from rapid deployable products for the telecoms industry, we cast foundations in house at our factory, keeping close control over the process and ship UK wide using specialist vehicles for offloading.

Features & Services
- Pre cast foundations can be produced to suit any Altron product
- Ducting arrangements provided to suit customer requirements
- Proven product and method of delivery, used in many installations over the past 8 years
- Can be supplied in accordance with Highways Agency requirements
- Full design service & support

Standard block sizes giving a cost effective solution, produced to customer requirements for cable duct entry and pole/tower mounting.

Used for large foundation requirements, enabling installations that larger lifting equipment cannot access.

Due to our policy of continuous product improvement specifications may change without notice.
Our cylindrical foundations can be produced to any size, within weight restrictions, and are designed to be rolled out on short lead times.
Altron’s versatile range of cantilever products cover a wide range of applications to include road works, average speed monitoring, trunk road ANPR, fence line security and virtually any other application where the camera or associated equipment needs to be on an extended arm, rotated in for servicing and even tilted down for ground level access to equipment.

Typically used for the following types of installation
- Roadworks and contraflows
- Highways and trunk roads
- Adjacent to quarantine areas
- E.g. adjacent to railway lines
- Perimeter security

Security Features
- Internal cabling
- Close fitting flush doors
- Solid secure heavy duty door locks
- Secure venting method on cabinet based poles

Features & Services
- A number of product configurations are available which include:
  - Straight tubular with cantilever arms up to 7m
  - Cabinet base with cantilever arms up to 7m
  - Tilt-down tubular with cantilever arm up to 3m
  - Tilt-down cabinet base with cantilever arm up to 3m
  - Note: Tilt-down versions operate rotation of arm from ground level.
- In house software used to model structures for analysis of stability and product suitability - different camera arrangements can be easily modelled and proposals produced for any location
- Cabinet based versions are based on our AW1545/UP range
- Flush doors and secure locks as standard, enhance security and appearance.
- Standard convection venting on AW1545/UP version eliminates condensation (when the pole base is properly sealed on installation)
- A wide range of Altron Accessories available
We offer a wide range of brackets and accessories, many available from stock, to suit the many varied camera mounting requirements for the CCTV industry. Where a standard bracket is not available, we produce variations and bespoke brackets on short lead times.
Ideal for gaining an elevated viewpoint from existing structures, we offer a range of wall and parapet mounted products, both fixed and tilt-down to suit most applications. Many are available from stock and where a standard product does not suit, we provide variations on short lead times.
Ideal for gaining an elevated view point from existing structures.

ACP Part Numbering

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<thead>
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<th>ACP/2/150/C</th>
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<tr>
<td>IDENTIFIES HEIGHT (REFER TO TABLE)</td>
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<tr>
<td>STAND-OFF BRACKET DISTANCE</td>
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</table>

Stand-Off Bracket Options

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<th>150/300mm</th>
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<th>1000mm</th>
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<td>350</td>
</tr>
<tr>
<td>600</td>
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</table>

Stand-Off Bracket Options

| NOTE. All wall plate and fixing centres shown here are for guidance only and should not be used for installation. |

Wall Plate Details

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<thead>
<tr>
<th>ALL FIXINGS M10</th>
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<td>310</td>
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Corner Mount Bracket Details

<table>
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<tr>
<th>ALL FIXINGS M10 (not supplied)</th>
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<tbody>
<tr>
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<tr>
<td>350</td>
</tr>
</tbody>
</table>

ACP Wall Mounted Poles

Features

- Poles up to 6m shipped on carrier for overnight delivery
- Rigid construction
- Hot dip galvanised for longevity
- Full range of accessories available

<table>
<thead>
<tr>
<th>Model Number</th>
<th>H</th>
<th>B</th>
<th>A</th>
<th>C</th>
<th>D</th>
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<td>ACP1</td>
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<td>0.3m</td>
<td>1.7m</td>
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<td>ACP4</td>
<td>6m</td>
<td>90</td>
<td>0.5m</td>
<td>3.5m</td>
<td>2m</td>
</tr>
</tbody>
</table>

- Most variations held in stock
- Dimension 'A' to be maintained for upper bracket fixing strength
- Dimension 'D' to be maintained for camera stability and strength of fixings into wall

Note ref wall construction. We have designed the loading and bolt fixing for our wall mounted poles for fixing into good brickwork with no less than the minimum spacing on wall brackets, as noted in the table above. For breeze block type walls and brick walls in poor condition, we recommend bolting through the wall and employing a structural engineer, to ensure that the wall is suitable.

PTZ MOUNTING PLATE WITH B No. ø8.5 HOLES EQUI-SPACED ON A ø101.6 PCD.

Max headload 25 kgs - 0.25m²

Note ref wall construction. We have designed the loading and bolt fixing for our wall mounted poles for fixing into good brickwork with no less than the minimum spacing on wall brackets, as noted in the table above. For breeze block type walls and brick walls in poor condition, we recommend bolting through the wall and employing a structural engineer, to ensure that the wall is suitable.

Due to our policy of continuous product improvement specifications may change without notice
Features of Wall Mounted Tilt-Down Poles

Altron Tilt-down wall mounted poles offer a solution to virtually any location and head load where a tilt-down wall mounted pole is suitable, for gaining an elevated viewpoint from an existing structure. Bespoke mounting brackets can be provided to suit site specific requirements.

AW1934 Wall Mounted Tilt-Down Poles

For single or two storey walls, giving a cost effective solution. Demountable winches are used for added security.

Mounting Bracket Options

- **Wall Mount**
- **Corner Mount**
- **Left Hand Tilt**
- **Right Hand Tilt**

*Min edge distance*

**Pole Height**   **Part No.**   **Dim H**   **Dim A**   **B**   **Winch Part No.**
3   AW1934/3   3.0–3.3   1.8   2.7   0.3   DW1934/3
4   AW1934/4   4.0–4.3   2.3   3.2   0.3   DW1934/4
5   AW1934/5   5.0–5.3   2.9   4.2   0.4   DW1934/5
6   AW1934/6   6.0–6.3   3.4   5.2   0.4   DW1934/6
7   AW1934/7   7.0–7.3   3.8   6.2   0.5   DW1934/7
8   AW1934/8   8.0–8.3   4.3   7.1   0.5   DW1934/8

* Stock items

All dimensions are in metres.

- For left hand tilt & right hand tilt suffix part number /LHT or /RHT e.g. AW1934/4/LHT
- For corner mount suffix part number /C
- Dimension ‘A’ to be maintained for camera stability and to limit winch loading
- Dimension ‘B’ to be maintained for upper bracket fixing strength
- Fixings not supplied

**Note ref wall construction.** We have designed the loading and bolt fixing for our wall mounted poles for fixing into good brickwork with no less than the minimum spacing on wall brackets, as noted in the table above. For breeze block type walls and brick walls in poor condition, we recommend banking through the wall and employing a structural engineer, to ensure that the wall is suitable.
AW1980 parapet mounted tilt-down poles give additional height from a standard parapet of suitable construction. Demountable winches and the facility to padlock make this product suitable for public areas such as multi-storey car park roof levels. A roof 'bunker' mounted version is also available.

**Mounting Bracket Options**

- **Standard Tilt**
- **Right Hand Tilt**
- **Left Hand Tilt**
- **Internal Corner Mount**
- **External Corner Mount**

**Wall Plate Details**

- **Flat Wall**
- **All Fixings M10 (not supplied)**
- **External Corner**
- **Internal Corner**

**Note ref wall construction.** We have designed the loading and bolt fixing for our wall mounted poles for fixing into good brickwork. For breeze block type walls and brick walls in poor condition, we recommend bolting through the wall and employing a structural engineer, to ensure that the wall is suitable.
AW4772 High Loading Wall-Mounted Tilt-Down Pole

Typically for dual camera and lighting installations, this range can be operated safely without the need to access a high level locking bolt, utilising a high level latch operated from ground level. Winches are fixed and can be supplied with padlockable cover and cable guard.

**Guidance for Equipment Loading**

<table>
<thead>
<tr>
<th>Total Height</th>
<th>Part No.</th>
<th>Wind surface area of equipment</th>
<th>Weight of equipment (kgs)</th>
<th>Post height 'A'</th>
<th>Bracket spacing 'B'</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>AW4772/4</td>
<td>0.75 m²</td>
<td>75</td>
<td>3500 mm</td>
<td>2800 mm</td>
</tr>
<tr>
<td>5</td>
<td>AW4772/5</td>
<td>0.75 m²</td>
<td>75</td>
<td>3500 mm</td>
<td>2800 mm</td>
</tr>
<tr>
<td>6</td>
<td>AW4772/6</td>
<td>0.65 m²</td>
<td>70</td>
<td>4200 mm</td>
<td>3300 mm</td>
</tr>
<tr>
<td>7</td>
<td>AW4772/7</td>
<td>0.5 m²</td>
<td>55</td>
<td>4200 mm</td>
<td>3300 mm</td>
</tr>
<tr>
<td>8</td>
<td>AW4772/8</td>
<td>0.4 m²</td>
<td>40</td>
<td>4200 mm</td>
<td>3300 mm</td>
</tr>
</tbody>
</table>

- For left hand tilt & right hand tilt suffix part number /LHT or /RHT e.g. AW4772/5/LHT
- For corner mount suffix part number /C
- Bracket spacing can be altered to suit site conditions depending on suitability of structure
- Optional winch cable guard (not a retrofit item)
- Optional padlockable winch housing

**Note ref wall construction.** Due to the high loading nature of this product, wall loading and construction should be checked prior to installation. Standard expanding sheath or chemical fixings are not suitable for mounting into breeze blocks or single skin brick walls and in most cases this type of wall construction is not suitable. In all cases a Structural Engineer should be employed to confirm the adequacy of the wall.

**Mounting Bracket Options**

- **Right Hand Tilt**
  - Standard Wall Mounted
  - Standard Corner Mounted

- **Left Hand Tilt**

- **Wall Plate Details**

- **Uplatch Detail**

- **Security Bracket with Padlockable Retaining Pin**

- **For locations accessible to the public, cable guard and padlockable winch cover available as optional extra**

- **Ground Operated Locking Latch Mechanism**

- **Permanent Winch**

- **High Level Locking Latch**

- **Flat Wall**

- **All Fixings M12 (not supplied)**

- **Note:** Due to our policy of continuous product improvement specifications may change without notice.
A comprehensive range of brackets to suit most common requirements, with a large amount of stock held. For installations where a standard bracket is not suitable, then we produce modified bracket designs and bespoke brackets on a fast turnaround.
Flat Wall Mounting Brackets

- **WB1**
  - Standard wall bracket
  - 6 No. Ø12 for M10 fixings
  - 60 x 60 x 3 RHS

- **WB2**
  - Heavy duty wall bracket
  - 6 No. Ø12 for M10 fixings
  - 60 x 60 x 3 RHS

- **WB2-900**
  - Extended wall bracket
  - 6 No. Ø12 for M10 fixings
  - 60 x 60 x 3 RHS

- **WB1-F**
  - Fixed camera wall bracket
  - 4 No. Ø10 for M8 fixings

**Load capacities**
- WB1: Load capacity 25kgs
- WB2: Max load capacity 40kgs

**AW1705**
- Extended wall bracket
  - 6 No. Ø12 for M10 fixings
  - 70 x 70 x 3.6 RHS

**Load capacity 25kgs**

<table>
<thead>
<tr>
<th>Outreach</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 mm</td>
<td>AW1705/1.5</td>
</tr>
<tr>
<td>2000 mm</td>
<td>AW1705/2</td>
</tr>
</tbody>
</table>

- Other outreach sizes made to order
- Also available for dome mounting

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi-spaced on 101.6 PCD.
Wall Mounted Brackets

- **CB1**
  - Standard corner wall bracket
  - Stock items
  
  ![Diagram of CB1](image)
  
  - 6 No. Ø12 for M10 wall fixings
  
- **CB2**
  - Heavy duty corner wall bracket
  - 8 No. Ø12 for M10 wall fixings
  
  ![Diagram of CB2](image)

- **CB2-900**
  - Extended corner wall bracket
  
  ![Diagram of CB2-900](image)
  
  - 8 No. Ø12 for M10 wall fixing

- **CB1-F**
  - Fixed camera corner wall bracket
  
  ![Diagram of CB1-F](image)
  
  - 4 No. Ø12 for M10 fixings

- **AW1705/C**
  - Extended corner wall bracket
  
  ![Diagram of AW1705/C](image)
  
  - 8 No. Ø12 for M10 wall fixings

**Load capacities**

- CB1: Load capacity 25kgs
- CB2: Load capacity 40kgs

**Load capacities**

- CB2-900: Max load capacity 25kgs
- CB1-F: Load capacity PTS-1 10kgs, HAS-1 20kgs

**Outreach Part No.**

<table>
<thead>
<tr>
<th>Outreach</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500 mm</td>
<td>AW1705/1.5/C</td>
</tr>
<tr>
<td>2000 mm</td>
<td>AW1705/2/C</td>
</tr>
</tbody>
</table>

- **Stock items**
  - Other outreach sizes made to order
  - Also available for dome mounting

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi - spaced on 101.6 PCD

Due to our policy of continuous product improvement specifications may change without notice
The Altron range of wall brackets for mounting domes is versatile and can be produced to suit any dome type. Standard mounting variations suit most installations, but if you have an installation that requires something non-standard, then we produce bespoke brackets to suit your specific requirement. Please specify dome type when ordering.

**Wall & Corner Mounted Dome Brackets**

**W81-D**
Wall mount standard

**CB1-D**
Corner mount standard

**W92-900-D**
Extended Wall mount

**CB2-900-D**
Extended Corner mount
Due to our policy of continuous product improvement specifications may change without notice.

Wall Mounted Brackets

Wall & Corner Swan Neck Brackets

HALF

**W-1699/H**
Flat Wall mount

- 4 No. Ø12 for M10 wall fixings
- M25 tapped conduit entry
- Option of cable entry through rear of arm
- Ø48.3 x 3 CHS

**C-1699/H**
Corner mount

- Adaptor to suit dome employed
- M25 tapped conduit entry
- Ø12 for M10 fixings

FULL

**W-1699/F**
Flat Wall mount

- 4 No. Ø12 for M10 fixings
- M25 tapped conduit entry
- Option of cable entry through rear of arm
- Ø48.3 x 3 CHS

**C-1699/F**
Corner mount

- Adaptor to suit dome employed
- M25 tapped conduit entry
- Ø12 for M10 fixings
- Ø48.3 x 3 CHS
## Wall Mounted Cages

### Flat Wall Mounted Cage

- **4 No. fixing lugs with M10 clearance holes**
- **2” x 2” x 1/8” weldmesh**
- **Padlockable hinged door to enable access to camera equipment for servicing is available as an option**

<table>
<thead>
<tr>
<th>Cage type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed camera without door</td>
<td>C-AFC</td>
</tr>
<tr>
<td>Fixed camera with door</td>
<td>C-AFC/D</td>
</tr>
<tr>
<td>PTZ camera without door</td>
<td>C-PAC</td>
</tr>
<tr>
<td>PTZ camera with door</td>
<td>C-PAC/D</td>
</tr>
</tbody>
</table>

### Typical Dimensions

<table>
<thead>
<tr>
<th>Cage Type</th>
<th>D</th>
<th>H</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed camera</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>PTZ camera</td>
<td>1100</td>
<td>1100</td>
<td>700</td>
</tr>
</tbody>
</table>

### Stock items

- Cages can be painted matt black over galvanising to reduce I/R reflection.
- Dimensions are typical and can vary to suit application. Please specify.

---

### Corner Mounted Cage

- **2” x 2” x 1/8” weldmesh**
- **Padlockable hinged door to enable access to camera equipment for servicing is available as an option**

<table>
<thead>
<tr>
<th>Cage type</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed camera without door</td>
<td>C-AFC</td>
</tr>
<tr>
<td>Fixed camera with door</td>
<td>C-AFC/D</td>
</tr>
<tr>
<td>PTZ camera without door</td>
<td>C-PAC</td>
</tr>
<tr>
<td>PTZ camera with door</td>
<td>C-PAC/D</td>
</tr>
</tbody>
</table>

### Typical Dimensions

<table>
<thead>
<tr>
<th>Cage Type</th>
<th>D</th>
<th>H</th>
<th>W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed camera</td>
<td>600</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>PTZ camera</td>
<td>1100</td>
<td>1100</td>
<td>700</td>
</tr>
</tbody>
</table>

- Cages can be painted matt black over galvanising to reduce I/R reflection.
- Dimensions are typical and can vary to suit application. Please specify.
Wall Mounted Brackets

AW1972
Wall mount

AW1972/C
Corner mount

Also available with knuckle for fixed camera (AW1972/F)

4 No. Ø12 for M10 fixings

Load Capacities
For PTZ
Load capacity 25kgs

For Fixed
Load capacity PTS-1 10kgs
HAS-1 25kgs

CB2/C
Corner

WB2/C
Flat

4 No. Ø12 for M10 fixings

Backing plates

60 x 60 x 3 RHS

Stainless steel studding, nuts & washers

4 No. Spaced ferrules

Fixing arrangement

Load Capacities
CB2/C  Load capacity 25kgs
WB2/C  Load capacity 25kgs

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi-spaced on 101.6 PCD

Due to our policy of continuous product improvement specifications may change without notice
All of our pole and tower ranges are backed up with a wide range of standard mounting accessories giving an appropriate and professional installation. Most items are held in stock and variations are available on a short lead time.
Pole & Tower Accessories

**PTS-1**
Standard fixed camera knuckle
- Load rating 10Kgs
- General duty adjustable knuckle for mounting fixed cameras - robust & economic

**HAS-1**
High specification fixed camera knuckle
- Load rating 25Kgs
- High specification adjustable knuckle where fine adjustment and a solid platform are required to ensure accurate reliable camera alignment

As standard, TB brackets are supplied with PTS-1 knuckles. Brackets supplied with HAS-1 knuckles fitted as option

Knuckles mounted on TB bracket arms

- **TB2-600F** Twin fixed
- **TB3-600F** Triple fixed
- **TB3-600FM** Triple fixed manx
- **TB4-600F** Quadruple fixed
- **TB5-600F** Five way fixed
- **TB6-600F** Six way fixed

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi - spaced on 101.6 PCD
1. Drill aluminium channels to fit hole centre on receiver box (one channel across the bottom, one across the top)
2. Bolt channels to the box
3. Trim channels to the width of the box using hacksaw
4. Bolt the box to the column/pole/tower using the 'U' bolts supplied
Pole & Tower Accessories

I/R Lamp Mounting Brackets

- **SP2**
  Twin mounting bracket
  ![SP2 Diagram](image1)

- **SPI**
  Single mounting bracket
  ![SPI Diagram](image2)

8 No. Ø8.5 equi-spaced on 101.6 PCD

Column Spacers

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Column Spacer Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>XP 90</td>
<td>90mm 3 1/2 inches</td>
</tr>
<tr>
<td>XP 150</td>
<td>150mm 6 inches</td>
</tr>
<tr>
<td>XP 230</td>
<td>230mm 9 inches</td>
</tr>
<tr>
<td>XP 300</td>
<td>300mm 12 inches</td>
</tr>
<tr>
<td>XP 380</td>
<td>380mm 15 inches</td>
</tr>
<tr>
<td>XP 450</td>
<td>450mm 18 inches</td>
</tr>
<tr>
<td>XP 600</td>
<td>600mm 24 inches</td>
</tr>
<tr>
<td>XP 1000</td>
<td>1000mm 39 inches</td>
</tr>
</tbody>
</table>

- Stock items
  - We can produce column spacers to suit any camera mounting type or application

Pole Top Mounting Brackets

**PMBT (Ø*) SPT** *(Ø)*
Pole top mounting bracket for PTZ camera

- Ø60 x 3 CHS
- Ø25 Exit tapped for conduit
- 6 No. M10 locking screws

- Commonly used for fixing cameras to the top of lighting poles

**PMBT (Ø*) SF** *(Ø)*
Pole top mounting bracket for fixed camera

- Ø60 x 3 CHS
- Ø25 Exit tapped for conduit
- 6 No. M10 locking screws

- Load Capacities:
  - PTS-1: 10kgs
  - HAS-1: 25kgs

Column & Tower Mounting Brackets

- **TMB-SPT**
  Tower leg mounting bracket for PTZ camera
  ![TMB-SPT Diagram](image3)

- **TMB-SF**
  Tower leg mounting bracket for fixed camera
  ![TMB-SF Diagram](image4)

- **CMB-SF**
  Pole mounting bracket for box section column fixed camera
  PTZ version also available

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Box Section Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMB 70SF</td>
<td>70 x 70</td>
</tr>
<tr>
<td>CMB 80SF</td>
<td>80 x 80</td>
</tr>
<tr>
<td>CMB 90SF</td>
<td>90 x 90</td>
</tr>
<tr>
<td>CMB 100SF</td>
<td>100 x 100</td>
</tr>
<tr>
<td>CMB 150SF</td>
<td>150 x 150</td>
</tr>
<tr>
<td>CMB 200SF</td>
<td>200 x 200</td>
</tr>
</tbody>
</table>

- Stock items
  - Stainless steel 'U' bolts to suit box section size

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi-spaced on 101.6 PCD
Pole & Tower Accessories

Adjustable Pole Mounting Brackets

<table>
<thead>
<tr>
<th>APB-SF</th>
<th>APB-SPT</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="APB-SF Diagram" /></td>
<td><img src="image2" alt="APB-SPT Diagram" /></td>
</tr>
</tbody>
</table>

Heavy 16mm stainless steel strapping grade 304

Load capacities PMB/APB

<table>
<thead>
<tr>
<th>PTS-1</th>
<th>HAS-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Fixed</td>
<td>10 Kg</td>
</tr>
<tr>
<td>For PTZ</td>
<td>25 Kg</td>
</tr>
</tbody>
</table>

Part No. | Housing Type | Pole Diameter
---|---|---
APB 150 SF | Single fixed | 75-150
APB 150 TF | Twin fixed | 75-150
APB 150 SPT | Single PTZ | 75-150
APB 150 TPT | Twin PTZ | 75-150
APB 250 SF | Single fixed | 150-250
APB 250 TF | Twin fixed | 150-250
APB 250 SPT | Single PTZ | 150-250
APB 250 TPT | Twin PTZ | 150-250

Stock items
- Stainless steel strapping has a 1 tonne breaking strain
- Can also be produced for AW1699/H & AW1699/F swan necks

Pole Mounting Camera Brackets

<table>
<thead>
<tr>
<th>PMB-SF</th>
<th>PMB-SPT</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="PMB-SF Diagram" /></td>
<td><img src="image4" alt="PMB-SPT Diagram" /></td>
</tr>
</tbody>
</table>

Clamp to suit pole diameter

Load capacities PMB/APB

<table>
<thead>
<tr>
<th>PTS-1</th>
<th>HAS-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Fixed</td>
<td>10 Kg</td>
</tr>
<tr>
<td>For PTZ</td>
<td>25 Kg</td>
</tr>
</tbody>
</table>

Part No. | Housing Type | Pole Diameter
---|---|---
PMB (Ø*) SF | Single fixed | To be specified
PMB (Ø*) TF | Twin fixed | To be specified
PMB (Ø*) SPT | Single PTZ | To be specified
PMB (Ø*) TPT | Twin PTZ | To be specified

* Followed by pole diameter

Stock items for diameters 139, 168 & 219
- We can produce pole mounting brackets to suit any camera type or application

Bullet Camera Brackets

<table>
<thead>
<tr>
<th>BCB-T</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="BCB-T Diagram" /></td>
</tr>
</tbody>
</table>

Examples of camera mount plates

Mounting Options

Note: Clamp-on versions also available

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi-spaced on 101.6 PCD
Pole & Tower Accessories

Offset Side Arms Brackets for Tubular Poles & Box Section Columns

**POBI (Ø*) SF**
Pole top offset arm for fixed camera

**POBI (Ø*) SPT**
Pole top offset arm for PTZ camera

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For Fixed Cameras</td>
</tr>
<tr>
<td>POBI (Ø*) 600/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
<td>POBI (Ø*) 1000/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
<td>POBI (Ø*) 1200/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
<td>POBI (Ø*) 1500/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
<td></td>
<td>For PTZ Cameras</td>
</tr>
<tr>
<td>POBI (Ø*) 600/SPT</td>
<td>25 Kgs</td>
</tr>
<tr>
<td>POBI (Ø*) 1000/SPT</td>
<td>25 Kgs</td>
</tr>
<tr>
<td>POBI (Ø*) 1200/SPT</td>
<td>20 Kgs</td>
</tr>
<tr>
<td>POBI (Ø*) 1500/SPT</td>
<td>15 Kgs</td>
</tr>
</tbody>
</table>

* Followed by pole diameter

**PMB (Ø*) SF**
Pole mounting offset bracket for fixed camera

**PMB (Ø*) SPT**
Pole mounting offset bracket for pan & tilt camera

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Load capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For Fixed Cameras</td>
</tr>
<tr>
<td>PMB (Ø*) 600/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
<td>PMB (Ø*) 1000/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
<td>PMB (Ø*) 1200/SF</td>
<td>10 Kgs</td>
</tr>
<tr>
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<td>10 Kgs</td>
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<tr>
<td></td>
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</tr>
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</tr>
<tr>
<td>PMB (Ø*) 1000/SPT</td>
<td>25 Kgs</td>
</tr>
<tr>
<td>PMB (Ø*) 1200/SPT</td>
<td>20 Kgs</td>
</tr>
<tr>
<td>PMB (Ø*) 1500/SPT</td>
<td>15 Kgs</td>
</tr>
</tbody>
</table>

* Followed by pole diameter

**POBI-2000 SPT**
Pole top 2m off set arm for pan & tilt camera

Bracket clamps for tubular poles (POB-PMB)
Bracket clamps for box section columns (COB-CMB)

All part numbers noted above are for brackets to fit tubular poles. For brackets to fit box section columns replace POM/PMB prefixes with COB/CMB. State column section size instead of pole diameter.

For extended offset brackets, it is important than on tilt down products, the arm is orientated in the direction of tilt. Please refer to P103 for full explanation.

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi - spaced on 101.6 PCD

Due to our policy of continuous product improvement specifications may change without notice
Swan Neck & Dome Mounting Brackets

The Altron range of swan necks & dome mounting brackets are versatile and can be produced to suit any dome type. Standard mounting variations suit most installations, but if you have an installation that requires something non-standard, then we produce bespoke brackets to suit your specific requirement. Please specify dome type when ordering.

Swan Neck Brackets

**AW1699/H**
- Single
- Adaptor to suit dome employed
- Ø48.3 x 3 CHS
- Adaptor to suit dome employed
- Ø48.3 x 3 CHS
- Standard PTZ plate with 4 No. Ø8.5 on 101.6 PCD

**AW1699/TH**
- Twin
- Ø48.3 x 3 CHS
- Unrestricted access into CHS
- Standard PTZ plate with 4 No. Ø8.5 on 101.6 PCD

**AW1699/F**
- Single
- Adaptor to suit dome employed
- Ø48.3 x 3 CHS
- Adaptor to suit dome employed
- Ø48.3 x 3 CHS
- Standard PTZ plate with 4 No. Ø8.5 on 101.6 PCD

**AW1699/TF**
- Twin
- Ø48.3 x 3 CHS
- Unrestricted access into CHS
- Standard PTZ plate with 4 No. Ø8.5 on 101.6 PCD

Pole Mounted Swan Neck Brackets

**PMB (Ø*) 1699/H** (*Pole diameter)
- Pole mount half swan neck
- Adaptor to suit dome employed
- Ø48.3 x 3 CHS
- M25 tapped conduit entry
- Cable entry through lower spacer
- 6 No. M8 fixings

**PMB (Ø*) 1699/F** (*Pole diameter)
- Pole mount full swan neck
- Adaptor to suit dome employed
- Ø48.3 x 3 CHS
- M25 tapped conduit entry
- Cable entry through lower spacer
- 6 No. M8 fixings

Double, triple & quad brackets available
**AW1723**

Sweeping Swan Neck

**AW1723/OF**

Sweeping Swan Neck

**PT(Ø*) 1699/H (Ø Pole diameter)**

Pole top mount half swan neck

**PT(Ø*) 1699/F (Ø Pole diameter)**

Pole top mount full swan neck

**Pole Top Mounted Swan Neck**

Produces aesthetic connection of swan neck and enables 360° orientation

3 No. grub screws to lock swan-neck into selected position

Optional cover plate with cable restraint bar

Adaptor to suit dome employed

**Sweeping Swan Neck Brackets**

Diameter of tube to fit over lamp-post/pole

6 No. M10 grub screws to secure

Cable way through base of swan neck

3 No. grub screws to lock swan-neck into selected position

Optional cover plate with cable restraint bar

Adaptor to suit dome employed

**Fitting Option for Swan Necks**

Flange mount (Standard)

Screw in[SN]

Spigot/Socket[SP]
### Pole Top Mounting Cages

#### Pole top mounted cage

- **Cage type** | **Part No.**
  - Fixed camera | AFCPT
  - PTZ camera | PACPT

**Typical Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>D</th>
<th>H</th>
<th>W</th>
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</thead>
<tbody>
<tr>
<td>Fixed camera</td>
<td>350</td>
<td>425</td>
<td>550</td>
</tr>
<tr>
<td>PTZ camera</td>
<td>1000</td>
<td>1000</td>
<td>1000</td>
</tr>
</tbody>
</table>

- Cages can be painted matt black over galvanising to reduce I/R reflection.
- Dimensions are typical and can vary to suit application. Please specify.

**Note**

- Angle of frame removed from this front edge to allow unrestricted view for camera.

#### Cylindrical cage for pole top

- Access into cage by removable lid
- Cage cylindrical body produced in 3” x 3” 1/8” weldmesh
- Main cage bolts to base frame and is removable for camera access
- Top hat fixing fits over top of pole and secured with 6No. bolts. Size made to suit pole diameter
- Braces to strengthen top of cage
- Mounting holes for PTZ

**Cage Ø**

<table>
<thead>
<tr>
<th>Ø</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>500</td>
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<tr>
<td>800</td>
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<tr>
<td>1000</td>
<td>PACPT/1000</td>
</tr>
<tr>
<td>1200</td>
<td>PACPT/1200</td>
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</tbody>
</table>

- Cages can be painted matt black over galvanising to reduce I/R reflection
- Diameter of cage to suit camera assembly housing
**Pole & Tower Accessories**

**AW1962**  
**PIR mount ring**
- Holes to suit PIR
- Mounting positions for up to 5 No. PIRs
- Mounting bracket adjustable on pivot bolt
- Clamp to suit pole diameter

**Part No.**  
<table>
<thead>
<tr>
<th>Pole Diameter</th>
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<tbody>
<tr>
<td>AW1962/09 Ø89</td>
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<td>AW1962/168 Ø168</td>
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<td>AW1962/193 Ø193</td>
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<tr>
<td>AW1962/219 Ø219</td>
</tr>
<tr>
<td>AW1962/273 Ø273</td>
</tr>
</tbody>
</table>

**AW1962/CG**  
**Cage enclosure for PIR mounting ring**
- 2" x 2" weldmesh
- Ø860 Typical

**AW2274**  
**Clamp-on PIR pole bracket**
- Plate to suit PIR employed
- Clamp to suit pole diameter
- These can be doubled up back to back

**AW1983**  
**PIR bracket and cage**
- 25 x 25 x 3 mesh on 4 sides only
- 50 x 50 x 3 on front face
- 13 x 13 x 3 angle frame
- Clamp to suit pole diameter
- These can be doubled up back to back

**AW2275**  
**Clamp-on tower leg bracket for PIR**
- Fixing holes to suit PIR detector type
- Ø33.70 tower leg
- 2 No. Heavy duty galvanised ‘U’ bolts

*Produced for all pole sizes as AW1962 mounting rings*
A common sight, protruding over parapets, our roof and parapet mounting brackets enable safe servicing of cameras within the roof space. Catering specifically for both PTZ and dome applications, most variations are available either from stock or on short lead times. For the many more unusual roof mounted installations, we provide a bespoke design service calling upon many years of experience, to overcome unusual mounting requests.
SBI-RM
Roof mounted swivel arm bracket

- Counterbalance weights (optional)
- Adjustable feet for levelling ballast frame
- Standard heights: 300-1100
- Swivel arm length: 1-2 metres
- Pivot point
- Arm rotates to service camera within roof space

Arm Length | Pt. No.
--- | ---
1m | SBI-1000RM
1.2m | SBI-1200RM
1.5m | SBI-1500RM
2m | SBI-2000RM

Upstand Heights Available
- 300 mm (supplied as standard)
- 600mm
- 1100mm

Other sizes made to order
- Max. camera load: 25kgs / 0.25m²
- Also available with bolt together frame (suffix BD) for access onto restricted roof areas. (/BD standard on 1500 + 1800 frames, refer to website for full part no. list)
- Typical ballast amount: 100 - 320kgs depending on arm length, post height, location and roof height above ground level

SBI-PM
Parapet mounted swivel arm bracket

- Counterbalance weights (optional)
- Adjustable top bracket
- Fixed bottom bracket
- Arm rotates to service camera within parapet
- Arm length: 1-2 metres
- Pivot point

Arm Length | Pt. No.
--- | ---
1m | SBI-1000PM
1.2m | SBI-1200PM
1.5m | SBI-1500PM
2m | SBI-2000PM

Flat Parapet Mount
- Max. camera load:
  - Arm length up to 1.5m = 25kgs / 0.25m²
  - Arm length of 2m = 15kgs / 0.15m²
  - Arm lengths of over 2m depends on application
- Also available with integral cableway (suffix IC) so that all cabling is concealed within bracketry.

Corner Parapet Mount
- Max. camera load:
  - Arm length up to 1.5m = 25kgs / 0.25m²
  - Arm length of 2m = 15kgs / 0.15m²
  - Arm lengths of over 2m depends on application

- Parapets must be of solid construction, ideally pre-cast concrete or steel-framed
- For brick built parapets, single skin construction is not suitable
- Parapets where the brickwork is not in good condition are not suitable
- The minimum parapet height is 1100mm
- The product head load must not be exceeded
- In cases where a greater head load is proposed, Altron must be contacted and suitable advice should be sought regarding parapet construction and strength

SBI-PMC
Corner mount option

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi-spaced on 101.6 PCD
**Sliding Arm Brackets**

**SAI-RM**

Roof mounted sliding arm bracket

Typical application – to enable servicing of camera between handrail or cladding panels where arm cannot be rotated.

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>Pt No.</th>
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<tbody>
<tr>
<td>1.5m</td>
<td>SAI-1500RM</td>
</tr>
<tr>
<td>2m</td>
<td>SAI-2000RM</td>
</tr>
<tr>
<td>2.5m</td>
<td>SAI-2500RM</td>
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</table>

Upstand Heights Available

Upstand height is dependant on parapet height and is made to order

- Max. load capacity 25kgs / 0.25m² (front support roller must be used)
- Also available with bolt together frame (suffix /BD) for access onto restricted roof areas. (BD standard on 1500 + 1800 frames, refer to website for full part no. list)
- Typical ballast amount 100 - 320kgs depending on arm length, post height, location and roof height above ground level

Available as corner mount (as shown) or as flat mount (specify when ordering)

**SAI-PM**

Parapet mounted sliding arm bracket

Arm runs on 4 No. nylon rollers

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>Pt No.</th>
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<tbody>
<tr>
<td>Flat</td>
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<tr>
<td>1m</td>
<td>SAI-1000PM</td>
</tr>
<tr>
<td>1.5m</td>
<td>SAI-1500PM</td>
</tr>
<tr>
<td>2m</td>
<td>SAI-2000PM</td>
</tr>
<tr>
<td>Corner</td>
<td></td>
</tr>
<tr>
<td>1m</td>
<td>SAI-1000PMC</td>
</tr>
<tr>
<td>1.5m</td>
<td>SAI-1500PMC</td>
</tr>
<tr>
<td>2m</td>
<td>SAI-2000PMC</td>
</tr>
</tbody>
</table>

Parapets must be of solid construction, ideally pre-cast concrete or steel-framed
- For brick built parapets, single skin construction is not suitable
- Parapets where the brickwork is not in good condition are not suitable
- The minimum parapet height is 1100mm
- The product head load must not be exceeded
- In cases where a greater head load is proposed, Altron must be contacted and suitable advice should be sought regarding parapet construction and strength

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi - spaced on 101.6 PCD
**SB1-RM/D**
Dome swivel arm roof mounted bracket

- Swivel arm length 1-2 metres
- Counterbalance weights (optional)
- Standard heights - 300-1100
- Adjustable feet for levelling ballast frame
- M25 cable entry

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>Pt No.</th>
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<tbody>
<tr>
<td>1m</td>
<td>SB1-1000RM/D</td>
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<tr>
<td>1.2m</td>
<td>SB1-1200RM/D</td>
</tr>
<tr>
<td>1.5m</td>
<td>SB1-1500RM/D</td>
</tr>
<tr>
<td>2m</td>
<td>SB1-2000RM/D</td>
</tr>
</tbody>
</table>

**Upstand Heights Available**
- 300 mm (supplied as standard)
- 600mm
- 1100mm

Other sizes made to order
- Max. camera load 15kgs / 0.15m²
- Typical ballast amount 100 - 320kgs depending on arm length, post height, location and roof height above ground level
- Fittings provided for all dome types - please specify when ordering
- Also available with bolt together frame (suffix /BD) for access onto restricted roof areas. (/BD standard on 1500 + 1800 frames, refer to website for full part no. list)

**SB1-PM/D**
Dome swivel arm parapet mounting bracket

- Swivel arm length 1-2 metres
- Counterbalance weights (optional)
- Adjustable top bracket
- Fixed bottom bracket
- Arm rotates in to service dome within parapet

- Parapets must be of solid construction, ideally pre-cast concrete or steel-framed
- For brick built parapets, single skin construction is not suitable
- Parapets where the brickwork is not in good condition are not suitable
- The minimum parapet height is 1100mm
- The product head load must not be exceeded
- In cases where a greater head load is proposed, Altron must be contacted and suitable advice should be sought regarding parapet construction and strength

**SB1-PMC/D**
Corner mount option

- Arm rotates in to service dome within roof space
- Ballasting frame available as bolt together (suffix /BD) for access onto restricted roof area

- Ballast evenly distributed

**Arm Length**
- Flat Parapet Mount
  - 1m | SB1-1000PM/D
  - 1.2m | SB1-1200PM/D
  - 1.5m | SB1-1500PM/D
  - 2m | SB1-2000PM/D

**Corner Parapet Mount**
- 1m | SB1-1000PMC/D
- 1.2m | SB1-1200PMC/D
- 1.5m | SB1-1500PMC/D
- 2m | SB1-2000PMC/D

- Fittings provided for all dome types - please specify when ordering
- Max. camera load 15kgs / 0.15m²

Also available with internal cable way (suffix IC) so that cabling is concealed within bracket

---

*Due to our policy of continuous product improvement specifications may change without notice*
Tilt-down pole weights

<table>
<thead>
<tr>
<th>Pole Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4m</td>
<td>106kgs</td>
</tr>
<tr>
<td>5m</td>
<td>118kgs</td>
</tr>
<tr>
<td>6m</td>
<td>130kgs</td>
</tr>
</tbody>
</table>

Tilt-down pole can be produced in 2 metre sections to facilitate access onto roof.

Ballast frame produced in 8 parts of bolt together construction:
- Weight = 400kg
- Heaviest component = 53kgs

---

**AW3287**

Ballasted frame - roof mounted 3/5m tilt-down-column bottom hinged

- 4x Ø8.5 equispaced on 101.6 PCD
- Pole in part tilt position
- Pulley wheel
- Mounting post
- Demountable winch and winch bracket
- The pole is winched down by use of a demountable winch unit
- 4-Off support stays
- Maximum headload: 20kg/0.2m²
- Maximum headload: 20kg/0.2m²

---

**AW3288**

Ballasted frame - roof mounted 4/6m tilt-down-column mid hinged

- 4x Ø8.5 equispaced on 101.6 PCD
- Pole in service position
- Mounting post
- Pulley wheel
- The pole is winched down by use of a demountable winch unit
- Maximum headload: 20kg/0.2m²
- Maximum headload: 20kg/0.2m²

---

50 - 180Kgs of ballast on each corner depending on height of pole & equipment deployed

4000/6000 Pole length

200x90x23kg/m Channel section

Pulley wheel

Mounting post

Demountable winch and winch bracket

The pole is winched down by use of a demountable winch unit

4-Off support stays

Maximum headload: 20kg/0.2m²

Tilt-down pole weights
- 3m = 95kgs
- 4m = 106kgs
- 5m = 118kgs

Tilt-down pole can be produced in 2 metre sections to facilitate access onto roof.

Ballast frame produced in 8 parts of bolt together construction:
- Weight = 400kg
- Heaviest component = 53kgs
AW2133/SF
Underslung J bracket for fixed camera

AW2133/SPT
RSJ - underslung J bracket for PTZ

AW1606/SF
Girder mounting bracket for fixed camera

AW1606/SPT
Girder mounting bracket for PTZ camera

AW2134/SF
Underslung J bracket for angled RSJ

AW2007
Girder suspended bracket

Load Capacities

AW1606/SF
Load Capacities
PTS-1
HAS-1

AW2133/SPT
Load Capacities
PTS-1
HAS-1

AW2007
Load Capacities
PTS-1
HAS-1

Also available for PTZ camera

Hole centres depend on RSJ size

RSJ size to be specified

Load capacity 25kgs

Hole centres depend on RSJ size

Load capacity 25kgs

Hole centres depend on RSJ size

Load capacity 25kgs

Hole centres depend on RSJ size

Load capacity 25kgs

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi - spaced on 101.6 PCD

Due to our policy of continuous product improvement specifications may change without notice
RSJ Mounting Underslung Bracketry

**AW2032**
Suspended arm for dome

- RSJ size to be specified
- 8 No. Lindaport clamps (M12)
- 40 x 40 x 3 RHS steadying arm
- Adjustable bracket
- Fitting to suit dome employed

**AW2053**
Soffit underslung J bracket PTZ camera

- 70 x 70 x 3 RHS
- 70 x 70 x 3.6 RHS
- 50 x 50 x 3 RHS
- 4 No. Ø12 for M10 fixings
- 4 No. Ø10 for M8 fixings
- Load capacity 25kgs

**AW1933**
Soffit underslung J bracket fixed camera

- 50 x 50 x 3 RHS
- 260
- 300
- 4 No. Ø10 for M8 fixings
- Load Capacities
  - PTS-1: 10kgs
  - HAS-1: 20kgs

Pedestals

**AW1915**
Car park entry pedestal

- 60 x 60 x 3 RHS
- 4 No. Ø14 for M12 fixings (not supplied)

**AW1995**
Door entry pedestal

- Removable rear entry panel as option
- 80 x 80 x 3.6 RHS
- Typical
- Ø75 service entry hole
- 4 No. Ø14 for M12 fixings (not supplied)

**AW1995/WM**
Wall mount door entry unit

- No. 4 M8 fixings internally
- 250
- 210
- 210
- 350

Pedestals are available for pedestrian and car entry as shown. Also taller versions for lorry and dual versions for car and lorry entry.

---

All brackets for camera mounting have a Ø127 mounting plate with Ø8.5 holes equi-spaced on 101.6 PCD.

---

Due to our policy of continuous product improvement specifications may change without notice.
Set bollard into foundation. Fill bollard with concrete - capping plate has rags on underside to push into the concrete filled bollard holding plate in position once concrete has set.

**AW2380**
PIR mounting post

- Top capped
- Post can be drilled and tapped to suit PIR detector type
- 90 x 90 RHS
- Cover plate with security head and screw gasket covering 100 x 50 cut-out
- 4 No. Ø14 for M12 fixings (not supplied)

**AW2136**
Mounting post for PIR with compartment

- Fixings drilled and tapped to suit PIR detector type
- Typical bushed hole tapped for M20 conduit fitting
- 150 x 150 RHS
- Access cut-out: 285H x 138W x 115D
- Secure compression lock
- 4 No. Ø14 for M12 fixings (not supplied)

**AW1771**
Anti ram bollards

- 6mm capping plate or alternative of push-on plastic cap supplied with post as separate items
- 139 Diameter x 5 CHS

Miscellaneous

- Standard finish is hot dip galvanised
- Powder coated finish over galvanising to BS and RAL colour charts

Due to our policy of continuous product improvement specifications may change without notice

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As well as providing a wide range of standard brackets we have over the past 20 years built up a significant library of ‘special’ designs, to overcome the many varying and challenging requirements for mounting cameras in difficult and unusual locations.

Today we find that the many ‘specials’ are a variation of either a standard bracket or a modification to a previous design for a similar application, so they are straightforward for us to produce.

We also have many standard design features that can be brought together into a one bespoke off design. And where the requirement is completely specific, we offer a full design service.

The diagrams in this section illustrate how we have overcome various specific customers installation requirements. The photographs are just a small sample of the many thousands of specials we have produced.

**Hampden Park lighting gantry bracket**

**Telescopic raise and lower bracket to enable camera servicing within lighting gantry.**

In operational position

Top view

Winch mechanism

**Waterloo bridge bracket**

**Retractable bracket using separate device to raise for servicing of camera**

**Case Study**

**Ballast Swivel arm bracket**

**Scenario**

The customer requirement was to have the dome extend out over the building edge by 1500mm. The bracket needed to be steadied by a handrail, but could not be structurally fixed to it, but also had a limited footprint for a ballast frame as this needed to fit inside a window cleaning gantry track. Arm could not protrude to the rear by more than 1m for the same reason. As the bracket is on a high rise roof, all parts needed to be small enough to carry onto the roof by one person via a lift and access stairs.

**Solution**

The solution was a swivel arm bracket with an arm that breaks down into three parts and is bolted together, along with a bolt together frame, bolt on steadying arms and counterbalance weights for the rear of the arm.

---

Due to our policy of continuous product improvement specifications may change without notice
Case Study

Roof edge mounted tilt down column

Scenario
The customer needed to mount a camera approx 2.5 metres high at an unprotected roof edge and be able to winch the camera in for servicing at a safe distance from the roof edge (1.5m).

Solution
The solution was a tilt down column, mounted to a wall mounted post and tilted down using a fixed winch on an extended arm. The column is locked in the vertical with a screw lock that can be operated at arm’s length. The winch cable is routed around the bracket to enable the column to tilt down away from the edge of the roof towards the operator.

Stainless Steel Corner Bracket

Made to customer specification

Ornate Corner Mount Bracket

To match existing street furniture

Case Study

90 degree extended arm wall bracket

Scenario
Customer requirement was to view a fire escape door area being used as a shelter for drug abuse. The camera needed to be in a position where it could look at the door way, but be out of reach with the bracket fixing point, camera cables etc, not accessible from the fire escape.

Solution
The solution was for the bracket mounting points to be round the corner of the building completely inaccessible and for the bracket to be installed using a cherry picker. The bracket has an arm at 90 degrees to reach around the corner and look at the fire escape and to stand off far enough to not be reached from the fire escape. The bracket needed to be made in three pieces - wall mounting plate, main arm and additional arm forming the 90 degree portion. The main arm needed to be sufficiently rigid to keep the movement of the 90 degree arm to a minimum.
Case Study
Gantry mounted telescopic, retractable, swivelling, dome mounting bracket

Scenario
Customer requirement was to have a dome mounted below a railway gantry to view along marshalling tracks and then to be able to bring the dome up onto the gantry walkway for servicing. The operation needed to take place within the gantry handrail with no overreaching.

Solution
The solution was a pole section that is lowered using a winch through an extended arm which swivels to enable the dome to be brought into the gantry walkway. The swivel arm is locked in the outward ‘operating’ position and can be padlocked there. The lowering pole is not held on the winch rope when lowered, but by a locking pin, that is spring loaded and operated from within the gantry. The bracket is fixed to the gantry floor and handrails for stability.
Our standard range of cabinets are of robust and secure design. They are not intended to compete with light duty pressed steel cabinets. Material used in the body is steel plate, which is between 4-6mm thick depending on cabinet size. All cabinets are fully fabricated and then hot dip galvanised after fabrication. The finish is powder coated, and the minimum expected life span is 25 years.

As well as being very resistant to physical attack, they have key security features, to resist vandal attacks and attempts to force entry.

A full range of accessories and options are available.
AEC Cabinet Range Features
- For use with 19” rack mounted equipment
- Hinged door with internal hinges
- Heavy duty fabricated construction
- Hot dip galvanised finished gives minimum expected 25 year lifespan
- Numerous security features ensure high level of vandal resistance
- Earthing points within cabinet and on door
- Convection air circulation and venting as standard
- Additional back board can also be provided
- Swing frame option available on some models
- Standard colours are 14C39 Holly bush green or Black. Other colours from BS/RAL colour charts available on request
- For security features see p99

<table>
<thead>
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<th>Model No.</th>
<th>Height H</th>
<th>Depth D</th>
<th>Maximum Mounting Depth M</th>
<th>Door Aperture A x 516</th>
<th>Mounting Post Height</th>
<th>Cabinet Weight Kgs</th>
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<td>450</td>
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<td>AEC-16-65-65</td>
<td>1610</td>
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<td>1250 x 516</td>
<td>28u</td>
<td>200</td>
</tr>
</tbody>
</table>

All dimensions in mm

Options
- Tamper Switch: CAB-TS
- 4 point locking: /A4P
- High Security lock in addition: CAB-HS
- Filter for vents: CAB-F
- Circulation Fan with filter for vents: /CF
- Thermostat: CAB-T
- Heater: CAB-H
- Swing frame (cabinet width increases): /SF
- Padlockable Hasp and Staple: PHS-AEC
- Backboard - Removable: /BB
- Rear Struts: /RS

Due to our policy of continuous product improvement specifications may change without notice
ARC Roadside Cabinet Range

ARC Cabinet Range Features
- Complete with quick release removable 15 mm thick treated backboard for equipment mounting
- Lift off door
- Heavy duty fabricated construction
- Hot dip galvanised finished gives minimum expected 25 year lifespan
- Numerous security features ensure high level of vandal resistance
- Earthing points within cabinet and on door
- Convection air circulation and venting as standard
- Standard colours are 14C39 Holly bush green or Black. Other colours from BS/RAL colour charts available on request
- For security features see p99

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Height H</th>
<th>Width W</th>
<th>Depth D</th>
<th>Working Depth C</th>
<th>Back Board Height x Width</th>
<th>Door Aperture A x B</th>
<th>Cabinet Weight Kgs</th>
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</thead>
<tbody>
<tr>
<td>ARC-90-60-32</td>
<td>920</td>
<td>600</td>
<td>320</td>
<td>220</td>
<td>700 x 470</td>
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<td>90</td>
</tr>
<tr>
<td>ARC-90-90-32</td>
<td>920</td>
<td>900</td>
<td>320</td>
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<td>700 x 770</td>
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<td>950 x 475</td>
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<tr>
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</tr>
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<tr>
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<td>420</td>
<td>320</td>
<td>700 x 1070</td>
<td>650 x 1075</td>
<td>167</td>
</tr>
<tr>
<td>ARC-12-60-42</td>
<td>1220</td>
<td>600</td>
<td>420</td>
<td>320</td>
<td>1000 x 470</td>
<td>950 x 475</td>
<td>121</td>
</tr>
<tr>
<td>ARC-12-90-42</td>
<td>1220</td>
<td>900</td>
<td>420</td>
<td>320</td>
<td>1000 x 770</td>
<td>950 x 775</td>
<td>153</td>
</tr>
<tr>
<td>ARC-12-12-42</td>
<td>1220</td>
<td>1200</td>
<td>420</td>
<td>320</td>
<td>1000 x 1070</td>
<td>950 x 1075</td>
<td>185</td>
</tr>
</tbody>
</table>

All dimensions in mm

Options
- Tamper Switch CAB-TS
- 4 point locking /A4P
- High Security lock in addition CAB-HS
- Filter for vents CAB-F
- Circulation Fan with filter for vents /CF
- Thermostat CAB-T
- Heater CAB-H
- Padlockable Hasp and Staple on either side of door PHS-ARC

Due to our policy of continuous product improvement specifications may change without notice
## Security Features

- **Re-inforced Lid**
- **Surround Stops**
- **Lever Attacks**
- **Internal Concealed Hinges**
- **Re-inforced Door with Additional Re-inforcing on Hinge Side**
- **Heavy Wall Cabinet Carcass**
- **Holding Down Bolts Below Ground Level & Inside Cabinet**
- **Deep Set Vents**
- **Air Flow**
- **Altron Secure Locks** - Cannot be punched through or sheared off
- **Option of Padlockable Hasp & Staple**

## Installation Details

- **Re-instate to Ground Level after Cabinet Has Been Installed**
- **Holding Down Bolts**
- **Service Ducts**
- **Optional Lower Locating Plate Used with Bolt Frame**

## Base Entry Details

<table>
<thead>
<tr>
<th>Part number</th>
<th>Base plate aperture for duct entry A x B</th>
<th>Concrete plinth footprint C x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARC-* - 60 - 32</td>
<td>420 x 140</td>
<td>800 x 500</td>
</tr>
<tr>
<td>ARC-* - 90 - 32</td>
<td>720 x 140</td>
<td>1100 x 500</td>
</tr>
<tr>
<td>ARC-* - 12 - 32</td>
<td>1020 x 140</td>
<td>1400 x 500</td>
</tr>
<tr>
<td>ARC-* - 60 - 42</td>
<td>420 x 240</td>
<td>800 x 600</td>
</tr>
<tr>
<td>ARC-* - 90 - 42</td>
<td>720 x 240</td>
<td>1100 x 600</td>
</tr>
<tr>
<td>ARC-* - 12 - 42</td>
<td>1020 x 240</td>
<td>1400 x 600</td>
</tr>
<tr>
<td>AEC-* - 65 - 45</td>
<td>470 x 270</td>
<td>880 x 650</td>
</tr>
<tr>
<td>AEC-* - 65 - 65</td>
<td>470 x 470</td>
<td>880 x 850</td>
</tr>
</tbody>
</table>

* All height variations

- **Template and holding down bolts available**
- **Bolt frame is available as an extra item**
**Safety Features**

Altron auto-braking winch kits have been proven in the field for over 30 years and have the following safety features:

1. **Auto-braking mechanism** comprises a friction clutch. When the winch cable is wound in (raising the tower, column or pole), a conventional ratchet is used. When the cable is wound out (lowering the tower, column or pole), a friction clutch is engaged. The greater the load, the greater the clutches holding capacity. If the handle is released, the load is held on the clutch and is fail safe.

2. **Winch-drum guard.** On DW1000 and DW1500 winches a guard is fitted as standard. This reduces the possibility of anything getting trapped in the gears of the winch during operation such as loose clothing, etc. and also reduces the possibility of the drum gears getting damaged.

3. **Large diameter drum core.** Reduces flattening and kinking of winch cable, extending the usable life of the cable.

4. **Gearing ratio.** The gearing ratio used on all winches stops the winch being overloaded by manual winding of the winch handle. A specific design feature, when the winch is used correctly, the pressure on the winch handle required to overload the winch is greater than can be applied by hand. Therefore under normal conditions when the winch is used in accordance with our operating instructions and when camera equipment within maximum rated, winches cannot be overloaded.

**Notes on Altron Winch Kits**

Altron winch kits are designed to be as simple and safe as possible to use, but as with all mechanical equipment, require correct operation and regular maintenance to ensure safe and reliable on-going use.

Prior to raising or lowering any Altron tilt-down products, the operator should have thoroughly read the operating instructions supplied and should be familiar with the winch operating procedures and the possible risks involved.

Instructions are always available by contacting Altron and regular training courses are run at our offices.

**Winch Mounting Options**

Altron winches are mounted in the optimum position on all products, so that only balanced loads are applied to the product and winch mechanism. This gives an increased life span for the winch and pulleys and reduces maintenance due to wear.

To achieve this, winch bracket and handle combinations vary between product types. Each winch unit has a part number and serial number and it is imperative that the correct winch unit is used on each product. Winch part numbers are noted against all products in this catalogue.

The photographs below show the three sizes of winch that we supply and also the three bracket mounting types.
Foundations & Wind loading

Further information on foundations and wind loading for Altron products can be found on the following pages. This contains useful information which may help when assessing and planning projects using Altron CCTV products.

Foundations sizes for elevated sites and Area D

The table below shows foundation sizes for area D installations and, for exposed, elevated locations, higher than 100-150m above sea level. For areas A&B and C the left hand column shows the foundation size shown in the product foundation page - read across the table for the relevant foundation size to be used for the relevant location.

Factors that effect foundation sizes & installations wind surface area

The main factor that determines foundation size (other than the location of the installation), is the wind surface area of the equipment being mounted on the pole/ tower/ column. It is the wind surface area that produces the wind force (kgf) that transfers itself to the foundation, for which the foundation needs to be of sufficient size to overcome the ‘over turning moment’ produced by this lever force.

The greater the surface area of equipment at the top of the structure, the larger the foundation size required, so it is very important that the ‘Max equip surface area’ shown in our technical tables is not exceeded. An extreme example of this is a solar panel which can be very light - only a few kilograms, but can have a large surface area and therefore require a much larger foundation size than the ones we state.

Notes on foundations

- Grade C28/35 concrete to be used.
- Allow a minimum of 72 hours for concrete to cure before placing pole/column/tower.
- A minimum ground bearing capacity of 75 kN/m² is assumed.
- Foundations comply with BS EN 1997-1:2004, BS 8004, ILE TR7 and PLG07.
- Foundation sizes are based on foundations being founded on natural ground. For made up ground, further assessment on ground suitability may be required.
- Foundation sizes shown are suitable for maximum equipment load and wind surface area as shown in product technical tables. For greater loads, foundations sizes will need to be increased, please contact us and we will advise on product suitability for greater loads and foundation requirements.
- Foundation sizes shown are not suitable for installations that include PV/ solar panels or small wind turbines. For this type of installation please contact our Sales office.

Factors that effect foundation sizes & installations wind surface area

The main factor that determines foundation size (other than the location of the installation), is the wind surface area of the equipment being mounted on the pole/ tower/ column. It is the wind surface area that produces the wind force (kgf) that transfers itself to the foundation, for which the foundation needs to be of sufficient size to overcome the ‘over turning moment’ produced by this lever force.

The greater the surface area of equipment at the top of the structure, the larger the foundation size required, so it is very important that the ‘Max equip surface area’ shown in our technical tables is not exceeded. An extreme example of this is a solar panel which can be very light - only a few kilograms, but can have a large surface area and therefore require a much larger foundation size than the ones we state.
Foundations

UK wind speed map

The UK map shows Basic Mean Hourly windspeeds with the contour lines defining areas A, B, C and D. Windspeeds are shown at sea level and for every 100m increase in altitude, the Basic Mean Hourly windspeed increases by 10%, then giving the Site Mean Windspeed.

Explanation of Town Location and Country Location used in the foundation sizes tables on each product Foundation & Bolting Details page.

Definition of 'Town location' - Town locations are locations within built up areas, with at least 15% of the surface built on, and/or on which the average height of buildings exceed 15m - for locations on outskirts that do not comply with this, 'Country location' for foundation sizes should be used.

Definition of 'Country location' - All areas, both coastal, up to 100m ASL and inland up to 200m ASL, that are not 'Town locations' (see table for higher altitudes).

UK wind speed map

The UK map shows Basic Mean Hourly windspeeds with the contour lines defining areas A, B, C and D. Windspeeds are shown at sea level and for every 100m increase in altitude, the Basic Mean Hourly windspeed increases by 10%, then giving the Site Mean Windspeed.

Explanation of Town Location and Country Location used in the foundation sizes tables on each product Foundation & Bolting Details page.

Definition of 'Town location' - Town locations are locations within built up areas, with at least 15% of the surface built on, and/or on which the average height of buildings exceed 15m - for locations on outskirts that do not comply with this, 'Country location' for foundation sizes should be used.

Definition of 'Country location' - All areas, both coastal, up to 100m ASL and inland up to 200m ASL, that are not 'Town locations' (see table for higher altitudes).

International windspeed conversions

Our standard designs are based on a mean hourly wind speed of 28.8 m/s (metres per second). This table shows the conversion from this mean hourly wind speed, to other internationally recognised wind speed measurements. Conversions are taken from the International Code Council 'International Building Code'.

<table>
<thead>
<tr>
<th>Area</th>
<th>Max Basic Mean Hourly Windspeed</th>
<th>Height above sea level for foundation design</th>
<th>Site mean wind speed</th>
<th>Actual wind velocity</th>
<th>Height above sea level for foundation design</th>
<th>Site mean wind speed</th>
<th>Actual wind velocity</th>
<th>Height above sea level for foundation design</th>
<th>Site mean wind speed</th>
<th>Actual wind velocity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>22 m/s</td>
<td>100m</td>
<td>24.2 m/s</td>
<td>41.8 m/s (93 mph)</td>
<td>200m</td>
<td>26.4 m/s</td>
<td>45.6 m/s (102 mph)</td>
<td>350m</td>
<td>29.7 m/s</td>
<td>51.4 m/s (115 mph)</td>
</tr>
<tr>
<td>B</td>
<td>24 m/s</td>
<td>100m</td>
<td>26.4 m/s</td>
<td>45.6 m/s (102 mph)</td>
<td>200m</td>
<td>28.8 m/s</td>
<td>50 m/s (111 mph)</td>
<td>350m</td>
<td>32.4 m/s</td>
<td>56 m/s (125 mph)</td>
</tr>
<tr>
<td>C</td>
<td>25 m/s</td>
<td>150m</td>
<td>28.8 m/s</td>
<td>50 m/s (111 mph)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>350m</td>
<td>37.5 m/s</td>
<td>58.3 m/s (130 mph)</td>
</tr>
<tr>
<td>D</td>
<td>27 m/s</td>
<td>250m</td>
<td>33.75 m/s</td>
<td>58.3 m/s (130 mph)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</table>

Mean Hourly 3 Sec Gust 10 Min Average Fastest Mile

28.8 m/s 43.6 m/s 30.1 m/s 34.9 m/s
64.4 mph 97.5 mph 67.3 mph 78 mph
104.4 kph 158 kph 109 kph 126 kph

The actual wind velocity for a 28.8 m/s mean hourly wind speed = 50 m/s, 111 mph, 180 kph.

Specific site location foundation sizes

We can specify a more accurate foundation size for specific site locations. Foundations sizes shown in product tables are for the max allowable head load and for the highest windspeed for the Area A, B, C or D (for instance, the centre of London has a mean wind speed of 22.05 m/s rather than the 24.2 m/s we use for area A in general). Given a specific site location and maximum equipment load that will be employed, we can provide an ideal foundation size that will be the minimum required for the site. This can save on civils costs and also help when there are site restrictions for foundation size.

Foundation design service

For all products, we can provide specific foundation designs, for site conditions that do not comply with our standard designs. We are happy to provide guidance and pricing on request.

Due to our policy of continuous product improvement specifications may change without notice
Foundations

**Equipment weight**

The actual weight of the camera equipment does not significantly affect the foundation size, so for fixed, non-tilting products weight is not an issue. The weight of equipment is only relevant for tilt-down products, where the camera equipment weight needs to be lowered using the winch and winch cable. Weight is then very important on tilt-down products, so as not to overload the winch and cable mechanism, so for tilt-down products the stated ‘max equip weight’ should not be exceeded.

**Off-set loads**

Off-set loads on fixed poles/ towers/ columns, typically produced by using one of our PMB or POB mounting brackets, are not significant, other than the fact that an off-set load increases the deflection of the structure and the movement of the camera monitor image. Off-set loads will also increase the stress on the structure, so even though most Altron poles, towers and columns have plenty of capacity for increased stress, some do not, so it is important to consult with us when anything more than a relatively small offset (600mm) is being used. Towers do not like to be twisted, so a pole is much better for an offset load then a tower, but a larger diameter pole will be needed to keep deflection to a minimum.

Offset loads on tilt-down products are not so desirable, unless in line with the direction of tilt, or if they are balanced (an equal load either side so when tilting the product, it is balanced). If the off-set load is not balanced, then this produces a side load at the hinge point, which can cause the hinge to bind, overloading the winch mechanism and is also a force that the hinge is not designed to take. We therefore recommend that a side load on a tilt-down product is only in line with the direction of tilt, or equal either side, so a balanced load.

**Positioning Foundations**

The following factors should be considered when assessing the location of a foundation in accordance with the type of product being used.

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**OFFSET OF CABLE DUCT ENTRY IN ACC/ACT BP MODELS**

The offset positioning of cable duct entry for ACC/ACT products in conjunction with the direction of tilt needs to be assessed prior to installation, to ensure correct positioning of cable duct.
1. Excavate as per recommended area and depth.
2. Shutter off top edge level and place ducting - ensure that all shuttering is supported.
3. Assemble bolts through template and screw nuts on so that recommended thread is protruding through template to give the relevant 'P' dimension when bolts are set in foundation, as noted in table.
4. If using bolt frame, ensure that the nut below the top template will be clear of the finished concrete surface level when the 'P' dimension is achieved.
5. For bolt frame method, position the assembled bolt frame in place within foundation pit, using cross slats to bridge pit and position service ducting so that a minimum of 50mm of duct will be proud of the finished concrete surface level.
6. Pour concrete level with top of shuttering, tamp down and level surface.
7. For bolt frame method, use a vibrating poker whilst pouring concrete to ensure no air traps around bolt frame lower locating plate.
8. For template method, push bolts down into concrete so that template is flat on concrete and nuts are against template with bolts vertical. Ensure that cable duct end is through entry hole in template and protrudes by 50mm min.
9. Allow 72 hours for concrete to cure before placing pole/column
10. Remove template before placing pole.

Note: Where back nuts are used to level pole/column it is essential that a load bearing grout is used to fill the void between base plate and concrete. Failure to do this may cause excessive deflection in pole.

**Bolt Frames**

**BP Bolt Frame Option**
For tilt-down columns & towers

**FB Bolt Frame Option**
For fixed columns and tubular fixed & tilt-down poles

**ANCT Bolt Frame**
Standard on ANCT towers

**Flange Plate**

**Flange Plate Installation Method**

1. Excavate as per recommended area and depth.
2. Shutter off top edge level and place ducting - ensure that all shuttering is supported.
3. Assemble bolts through template and screw nuts on so that recommended thread is protruding through template to give the relevant 'P' dimension when bolts are set in foundation, as noted in table.
4. If using bolt frame, ensure that the nut below the top template will be clear of the finished concrete surface level when the 'P' dimension is achieved.
5. For bolt frame method, position the assembled bolt frame in place within foundation pit, using cross slats to bridge pit and position service ducting so that a minimum of 50mm of duct will be proud of the finished concrete surface level.
6. Pour concrete level with top of shuttering, tamp down and level surface.
7. For bolt frame method, use a vibrating poker whilst pouring concrete to ensure no air traps around bolt frame lower locating plate.
8. For template method, push bolts down into concrete so that template is flat on concrete and nuts are against template with bolts vertical. Ensure that cable duct end is through entry hole in template and protrudes by 50mm min.
9. Allow 72 hours for concrete to cure before placing pole/column
10. Remove template before placing pole.

**Anchorages Using Back Nut Method**

**Anchorages Using Template Setting Method**

**Bolt Projection & Tightening**

<table>
<thead>
<tr>
<th>Bolt size</th>
<th>P1 in mm</th>
<th>P2 in mm</th>
<th>Torque - NM</th>
</tr>
</thead>
<tbody>
<tr>
<td>M16</td>
<td>50</td>
<td>70</td>
<td>90</td>
</tr>
<tr>
<td>M20</td>
<td>60</td>
<td>90</td>
<td>190</td>
</tr>
<tr>
<td>M24</td>
<td>80</td>
<td>120</td>
<td>280</td>
</tr>
<tr>
<td>M27</td>
<td>100</td>
<td>150</td>
<td>400</td>
</tr>
</tbody>
</table>

Note: Where back nuts are used to level pole/column it is essential that a load bearing grout is used to fill the void between base plate and concrete. Failure to do this may cause excessive deflection in pole.

For ANCT installation details refer to Sheet 4940-26
Installation Methods

**PM Method for columns and towers**

1. Excavate as per recommended area and depth.
2. Shutter off top edge level and place ducting - ensure that all shuttering is supported.
3. Place 100mm of hardcore (paving slab) under post.
4. Guy from top of post with 3-4 stakes and guy ropes.
5. Plumb level post by adjusting guy ropes position ducting as required, ensuring it is supported sufficiently.
6. Pour concrete and check post for plumb.
7. Allow 72 hours for concrete to cure.
8. Remove guys and stakes.
9. Fix tower to post.

**Embedded base installation method**

1. Excavate as per recommended area and depth.
2. Set socket into excavated pit on 2no 1 inch thick slabs or suitable hardcore.
3. Ensure socket verticality and that it is supported centrally.
4. Position service duct so that 100mm enters the socket, ensuring correct orientation with service entry point on pole.
5. Pour concrete on the outside of the pipe and fill pit to just below the top level of the socket.
6. Allow to cure for minimum of 72 hours.
7. Lower pole into socket and support in position for operations B-I.
8. Fill hardcore and sand around the base of the pole to a depth of approx 150mm.
9. Pack this down so that it is well compressed.
10. Select timber wedges and wedge pole in 3 places ensuring pole is vertical.
11. For poles up to 7 metres in height pour concrete into open socket. For poles over 7 metres in height use a cementitious grout instead of concrete. Use a vibrating poker to ensure no voids or air traps.
12. Allow 72 hours to cure.
13. Remove wedges and fill gaps with grout.

**FB Method for towers**

1. Excavate as per recommended area and depth.
2. Shutter off top edge level and place ducting - ensure that all shuttering is supported.
3. Support tower ground frame in excavated base by tying wooden slat across top of frame and resting end of slat either side of base.
4. Support slats in raised position so that top of tower ground frame is 75mm proud of base surface.
5. Position ducting so that it enters the base next to the required tower leg.
6. Level frame across the 3 No. flange ends.
7. Pour concrete and then check frame is level.
8. Allow 72 hours for concrete to cure before placing tower.

**ACT FB**

For further details refer to page 4940-25

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Technical

Due to our policy of continuous product improvement specifications may change without notice.

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For further details refer to page 4940-24 for columns 4940-25 for poles
Alternative holding down methods

Installation of chemical anchors

For use on existing cast foundations or as an alternative to standard holding down bolts.

- We recommend the use of chemical anchors over expanding sheath type anchors.
- We can supply the chemical anchors shown below ex stock.
- For full details on chemical anchors and installation method please contact our Sales team.

<table>
<thead>
<tr>
<th>ØD</th>
<th>P</th>
<th>B</th>
<th>L</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>M16</td>
<td>65</td>
<td>125</td>
<td>190</td>
<td>170</td>
</tr>
<tr>
<td>M20</td>
<td>90</td>
<td>170</td>
<td>260</td>
<td>220</td>
</tr>
<tr>
<td>M24</td>
<td>85</td>
<td>210</td>
<td>295</td>
<td>260</td>
</tr>
<tr>
<td>M27</td>
<td>100</td>
<td>240</td>
<td>340</td>
<td>300</td>
</tr>
</tbody>
</table>

Installation method

1. Drill correct diameter and depth of hole for the stud.
2. Clean the hole using a brush and air pump.
3. Insert chemical capsule into the hole stud to drilling machine using an appropriate driver.
4. Offer stud to capsule and switch on machine. Drive stud into capsule to full depth. To prevent over mixing, stop rotation as soon as bottom of hole is reached. Leave undisturbed until resin has set.
5. Position baseplate and tighten to recommended torque.

To ensure correct installation of chemical anchor bolts an experienced contractor should be employed.

Buried flange members

Where underground services restrict the possible location of the foundation/ camera position, buried Flange Members can often overcome congestion & provide a solution. Buried flange members can also be used as an alternative to other standard holding down methods and also to achieve installations typically outlined below, where other methods are not suitable.

<table>
<thead>
<tr>
<th>TEMP °C</th>
<th>TIME TO CURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DRY</td>
</tr>
<tr>
<td>0</td>
<td>15 HRS</td>
</tr>
<tr>
<td>10</td>
<td>3 HRS</td>
</tr>
<tr>
<td>20</td>
<td>30 MINS</td>
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Due to our policy of continuous product improvement specifications may change without notice
Design & Manufacturing Standards

The design and manufacture of Altron products are covered by the following standards.

Poles & Columns
- BS EN 1993-1-1:2005 Eurocode 3: Design of steel structures
- BS EN 40-3-1:2013
- BS EN 40-3-3:2013
- BS 5950-1
- Design analysis carried out using a specialist software package in accordance with ILE TR7, BS6399 and BS8100
- PLG07

Towers
- Wind loading and structural design is carried out using specialist software package in accordance with BS8100 PT1, ‘Code of practice for loading’ and BS8100 PT3, ‘Code of practice for strength assessment of members of lattice towers and masts’

Foundations
- BS EN 1997-1:2004 Eurocode 7 – Geotechnical design
- BS8004

Material and Finishing
- Structural steel hollow sections EN10219 - EN10025:2004
- Steel flat angles and structural sections EN10025, EN10110, EN 10130
- Stainless steel sections Grade 304, 316
- Aluminium section Grade 6082
- Foundation bolts Grade 4.6 spun galvanised BS4190, BS3692, DIN931, 934, 601
- Fixings: stainless steel Grade A2, galvanised Grade 4.6 Grade 8.8 BS4190, BS3692, DIN 931, 934, 601
- Hot dipped galvanising after fabrication to ISO 1461
- Painting in BS and RAL colours in accordance with BS4800

Manufacturing Processes
- Welding Procedures conform with BS EN 1011-2009, BS EN 9606-1
- Testing procedures for welders where applicable to BS EN 15614-1:2017

Winches
- Wire ropes to BS183:1972, BS EN 13411 3 2004 + A1 2008
- Winches conform to American ASAE standard S361.1T.