The **PTZ SolsticeCam™** solar-powered wireless surveillance system can be installed nearly anywhere, and gives complete control of your cameras from anywhere in the world.

Compatible with virtually any PTZ IP camera on the market and ideal for remote video surveillance, including perimeter security for government and industrial facilities, railways, parks, construction yards, and parking lots.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
**SOLAR PANELS**

- **Multi-crystalline silicon solar cell.**
  - High transparency, low-iron, tempered glass.
  - Heavy-duty anodized frames.
  - Rugged design to withstand high wind pressure, hail, and snow load.

**WIRELESS**

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*Cellular not available in all areas, and requires monthly service charge.

**CAMERAS**

- ACTI
- AXIS
- ARECONT
- AVIGILON
- BOSCH
- DAHUA
- FLIR
- GANZ
- HANWHA
- HIKVISION
- MOBOTIX
- PANASONIC
- PELCO
- SONY
- VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

**POLE**

- **Direct Burial, Sectional, Aluminum Pole:** The 20’ x 6” diameter (7m x 152mm) or 20’ x 4.5” diameter (7m x 114mm) pole includes two sections: a 12’ (3.5m) main section and an 8’ (2.5m) base section. The base section is installed 4’ (1.2m) below ground, leaving 16’ (5m) total above ground.

- **Hinged Aluminum Pole:** The pole is hinged at the base for an extremely easy installation. The hinged pole comes in two standard sizes: 16’ x 6” diameter (5m x 152mm) (pictured at left) and 20’ x 6” diameter (7m x 152mm.) Custom lengths below 20’ (7m) can be requested.

- **Your Pole:** All Sun Surveillance components are designed to mount to any flat surface or pole 4.5” (114mm) or greater.

**BATTERY / ELECTRONICS**

- **Enclosure:** The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

- **Electronics:** All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

- **Batteries:** Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.

**OPTIONS**

- **IR Illuminator:** Various distances and angles.
- **Strobe Light:** White, Blue, Green, Red.
- **Amplified Speaker:** 10 watt amplifier and speaker.
The **Fixed SolsticeCam™** solar-powered wireless surveillance system can be installed nearly anywhere, and gives complete control of your cameras from anywhere in the world.

Compatible with virtually any fixed IP camera on the market and ideal for remote video surveillance, including perimeter security for government and industrial facilities, railways, parks, construction yards, and parking lots.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
**SOLAR PANELS**

- **Multi-crystalline silicon solar cell.**
  - High transparency, low-iron, tempered glass.
  - Heavy-duty anodized frames.
  - Rugged design to withstand high wind pressure, hail, and snow load.

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**CAMERAS**

- ACTI
- AXIS
- ARECONT
- AVIGILON
- BOSCH
- DAHUA
- FLIR
- GANZ
- HANWHAP
- HIKVISION
- MOBOTIX
- PANASONIC
- PELCO
- SONY
- VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

**POLE**

- **Direct Burial, Sectional, Aluminum Pole:** The 20’ x 6” diameter (7m x 152mm) or 20’ x 4.5” diameter (7m x 114mm) pole includes two sections: a 12’ (3.5m) main section and an 8’ (2.5m) base section. The base section is installed 4’ (1.2m) below ground, leaving 16’ (5m) total above ground.

- **Hinged Aluminum Pole:** The pole is hinged at the base for an extremely easy installation. The hinged pole comes in two standard sizes: 16’ x 6” diameter (5m x 152mm) (pictured at left) and 20’ x 6” diameter (7m x 152mm.) Custom lengths below 20’ (7m) can be requested.

- **Your Pole:** All Sun Surveillance components are designed to mount to any flat surface or pole 4.5” (114mm) or greater.

**BATTERY / ELECTRONICS**

- **Enclosure:** The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

- **Electronics:** All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

- **Batteries:** Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.

**OPTIONS**

- **IR Illuminator:** Various distances and angles.
- **Strobe Light:** White, Blue, Green, Red.
- **Amplified Speaker:** 10 watt amplifier and speaker.
The **Thermal SolsticeCam™** solar-powered wireless surveillance system can be installed nearly anywhere, and gives complete control of your cameras from anywhere in the world.

Compatible with virtually any thermal IP camera on the market and ideal for a wide range of remote video surveillance applications, such as perimeter security for government and industrial facilities, railways, parks, construction yards, and parking lots.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
**SOLAR PANELS**

Multi-crystalline silicon solar cell.
High transparency, low-iron, tempered glass.
Heavy-duty anodized frames.
Rugged design to withstand high wind pressure, hail, and snow load.

**WIRELESS**

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**CAMERAS**

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<tr>
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<th>GANZ</th>
<th>MOBOTIX</th>
<th>SIGHTLOGIX</th>
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<td>G2 FIXED 320 X 240</td>
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<td>Q2901-E</td>
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*Custom SolsticeCam™ configurations are available for cameras not listed above.

**POLE**

**Direct Burial, Sectional, Aluminum Pole:** The 20’ x 6” diameter (7m x 152mm) or 20’ x 4.5” diameter (7m x 114mm) pole includes two sections: a 12’ (3.5m) main section and an 8’ (2.5m) base section. The base section is installed 4’ (1.2m) below ground, leaving 16’ (5m) total above ground.

**Hinged Aluminum Pole:** The pole is hinged at the base for an extremely easy installation. The hinged pole comes in two standard sizes: 16’ x 6” diameter (5m x 152mm) (pictured at left) and 20’ x 6” diameter (7m x 152mm.) Custom lengths below 20’ (7m) can be requested.

**Your Pole:** All Sun Surveillance components are designed to mount to any flat surface or pole 4.5” (114mm) or greater.

**BATTERY / ELECTRONICS**

**Enclosure:** The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

**Electronics:** All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

**Batteries:** Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.
The **Mobile Trailer SolsticeCam™** solar-powered wireless surveillance system is designed to dynamically extend your security on demand.

The EZ-Lift manual winch quickly raises the telescoping pole, providing a clear and stable vantage point with complete control of your cameras from anywhere in the world.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
SOLAR PANELS

Multi-crystalline silicon solar cell.
High transparency, low-iron, tempered glass.
Heavy-duty anodized frames.
Rugged design to withstand high wind pressure, hail, and snow load.

WIRELESS

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*Cellular not available in all areas, and requires monthly service charge.

CAMERAS

ACTI  AXIS  ARECONT  AVIGILON  BOSCH
DAHUA  FLIR  GANZ  HANWHA  HIKVISION
MOBOTIX  PANASONIC  PELCO  SONY  VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

TELESCOPIC MAST

The telescopic mast system features an EZ-Lift winch for rapid deployment.

Type: Square tube steel, 4 section, galvanized finish with powder coat base.
Height: 20’ (6m)
Lift System: EZ-Lift manual winch
Max Payload: 165lbs. (75 Kg)

BATTERY / ELECTRONICS

Enclosure: The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

Electronics: All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

Batteries: Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.

OPTIONS

IR Illuminator: Various distances and angles.
Strobe Light: White, Blue, Green, Red.
Amplified Speaker: 10 watt amplifier and speaker.
The **MobileLite SolsticeCam™** is a cost effective and flexible solar-powered wireless surveillance system, designed to dynamically extend your security on demand.

The telescoping pole extends quickly to a clear and stable vantage point with complete control of your cameras from anywhere in the world.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
**SOLAR PANELS**

- **Multi-crystalline silicon solar cell.**
  - High transparency, low-iron, tempered glass.
  - Heavy-duty anodized frames.
  - Rugged design to withstand high wind pressure, hail, and snow load.

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**CAMERAS**

- ACTI
- AXIS
- ARECONT
- AVIGILON
- BOSCH
- DAHUA
- FLIR
- GANZ
- HANWhA
- HIKVISION
- MOBOTIX
- PANASONIC
- PELCO
- SONY
- VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

**TELESCOPIC MAST**

The telescopic mast is constructed from lightweight and corrosion resistant 6061 Aluminum.

- **Type:** 4.5” (114mm) O.D., 6061 T6 Aluminum Alloy, 3 section
- **Height:** 16’ (5m)
- **Lift System:** Manual, push up type, with 8 stabilizing lock knobs
- **Cabling:** Internal, high performance coiled cable

**BATTERY / ELECTRONICS**

- **Enclosure:** The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

- **Electronics:** All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

- **Batteries:** Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.

**OPTIONS**

- **IR Illuminator:** Various distances and angles.
- **Strobe Light:** White, Blue, Green, Red.
- **Amplified Speaker:** 10 watt amplifier and speaker.
The **H-Base SolsticeCam™** mobile solar-powered wireless surveillance system is designed to extend your security infrastructure and provide an extremely robust and stable base for even the largest solar arrays and poles.

The adjustable leveling jacks ensure a stable installation in any environment, with complete control of your cameras from anywhere in the world.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
SOLAR PANELS

Multi-crystalline silicon solar cell.
High transparency, low-iron, tempered glass.
Heavy-duty anodized frames.
Rugged design to withstand high wind pressure, hail, and snow load.

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CAMERAS

ACTI    AXIS    ARECONT    AVIGILON    BOSCH
DAHUA   FLIR    GANZ       HANWHA     HIKVISION
MOBOTIX PANASONIC PELCO   SONY       VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

BATTERY / ELECTRONICS

Enclosure: The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

Electronics: All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

Batteries: Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.

POLE MOUNT

The pole system features either a Hinged Pole or an EZ-Lift winch for rapid deployment.

Hinged And Sectional Aluminum Pole: The pole hinges at the base for an extremely easy installation. The hinged pole comes in a standard size: 12’ x 6” diameter (3.5m x 152mm) (pictured at left)

EZ-Lift Winch:
Height: 20’ (6m)
Lift System: EZ-Lift manual winch
Max Payload: 165 lbs. (75kg)

OPTIONS

IR Illuminator: Various distances and angles.
Strobe Light: White, Blue, Green, Red.
Amplified Speaker: 10 watt amplifier and speaker.
The **QuadPod SolsticeCam™** mobile solar-powered wireless surveillance system is designed to extend your security infrastructure, without the cost that is typically associated with other mobile surveillance platforms.

The telescoping pole extends quickly to a clear and stable vantage point, with complete control of your cameras from anywhere in the world.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
**SOLAR PANELS**

- **Multi-crystalline silicon solar cell.**  
  High transparency, low-iron, tempered glass.  
  Heavy-duty anodized frames.  
  Rugged design to withstand high wind pressure, hail, and snow load.

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**CAMERAS**

- ACTI  
- AXIS  
- ARECONT  
- AVIGILON  
- BOSCH  
- DAHUA  
- FLIR  
- GANZ  
- HANWA  
- HIKVISION  
- MOBOTIX  
- PANASONIC  
- PELCO  
- SONY  
- VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

**TELESCOPIC MAST**

The telescopic mast is constructed from lightweight and corrosion resistant 6061 Aluminum.

- **Type:** 4.5” (114mm) O.D., 6061 T6 Aluminum Alloy, 3 section  
- **Height:** 15’ (4.5m)  
- **Lift System:** Manual, push up type, with 8 stabilizing lock knobs  
- **Cabling:** Internal, high performance coiled cable

**BATTERY / ELECTRONICS**

- **Enclosure:** The enclosure is made of 5052 Aircraft Grade Aluminum, and is extremely corrosion resistant.

- **Electronics:** All SolsticeCam™ systems are comprised of high quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

- **Batteries:** Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power 365 days a year.

**OPTIONS**

- **IR Illuminator:** Various distances and angles.  
- **Strobe Light:** White, Blue, Green, Red.  
- **Amplified Speaker:** 10 watt amplifier and speaker.
The **PowerBridge PowerBox™** is designed to ensure continuous operation even in remote locations at night or with limited grid-power availability, but without the cost typically associated with solar based systems.

Compatible with a wide variety of lighting systems, including those based on a photocell or fixed timer. Comes standard with overload surge protections to preserve your investment.

All **PowerBox™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
**UTILITY POWER**

The **PowerBridge™** offers support for a wide variety of applications, including photocell and timer-based lighting systems with surge protection.

**Input power:** 115/230/380/480VAC nominal supported

**WIRELESS**

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- ACTI
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- AVIGILON
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- DAHUA
- FLIR
- GANZ
- HANWHA
- HIKVISION
- MOBOTIX
- PANASONIC
- PELCO
- SONY
- VIVOTEK

*Custom SolsticeCam™ configurations are available for cameras not listed above.

**POLE**

The **PowerBox™** is compatible with poles 4.5” (114mm) in diameter or greater, with included standard mounting hardware. Specify pole diameter and type (square, round, etc.) when ordering to ensure an exact fit for your application. External wiring is also included, reducing field prep and setup time.

**BATTERY / ELECTRONICS**

**Enclosure:** The enclosure is made of **5052** Aircraft Grade Aluminum, and is extremely corrosion resistant.

**Electronics:** All SolsticeCam™ systems are comprised of high-quality, industrial grade components and can withstand the most extreme environments. Components include but are not limited to: charging circuit, overload protection, and power supplies.

**Batteries:** Absorbent glass mat, sealed lead acid. The battery bank and solar array are sized to provide continuous power **365** days a year.

**OPTIONS**

- **IR Illuminator:** Various distances and angles.
- **Strobe Light:** White, Blue, Green, Red.
- **Amplified Speaker:** 10 watt amplifier and speaker.
The **UPS PowerBox™** grid-power based surveillance system is designed to ensure continuous operation even in remote outdoor locations, or where grid-power is unreliable.

Offers a cost advantage over solar based solutions where grid-power is accessible. Comes standard with overload surge protections to preserve your investment.

All **PowerBox™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
SUPPORTED OUTPUT

<table>
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<tr>
<th>Standard</th>
<th>Optional</th>
<th>Optional POE</th>
<th>Optional Passive POE</th>
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<td>802.3af</td>
<td>12v DC</td>
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<td>24v AC*</td>
<td>802.3at</td>
<td>18v DC</td>
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<td></td>
<td></td>
<td>Hi-POE**</td>
<td>24v DC</td>
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<td></td>
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<td>48v DC</td>
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* Pure sine-wave regulated
** Supports power to PD over pairs 1/2 (-), 3/6 (+), 4/5 (+), 7/8 (-) up to 60W

UTILITY POWER SOLUTIONS

Supports a wide variety of applications and input power configurations.
Provides power conditioning and surge protection with 0ms switchover on power failure.
The optional 120v AC output delivers clean sine-wave regulated power for sensitive loads.

**Input power:** 120/240/380/480 VAC supported

POLE

The PowerBox™ is compatible with poles 4.5” (114mm) in diameter or greater with included standard mounting hardware. Specify pole diameter and type (square, round, etc.) when ordering to ensure an exact fit for your application. External wiring is also included, reducing field prep and setup time.

BATTERY / ELECTRONICS

**Enclosure:** Vandal and weather-resistant 5052 Aluminum alloy enclosure assembly for enhanced strength and corrosion protection.

**Electronics:** All PowerBox™ systems are built with field proven electronics.

**Includes:** charging circuit, overload protection, short-circuit protection, low-voltage protection, and surge protection for critical applications.

**Batteries:** Absorbent glass mat, sealed lead acid. The battery bank is sized to provide continuous power 365 days a year with multi-day backup capabilities.

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<th>SS-BTB-1</th>
<th>SS-BTB-2</th>
<th>SS-BTB-3</th>
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<tr>
<td>Nominal Output Voltage</td>
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<td>Output Power Capacity</td>
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**Runtime:**

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<tr>
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<td>46 Hours</td>
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<td>12 Hours</td>
<td>12 Hours</td>
<td>17 Hours</td>
</tr>
<tr>
<td>@ 50% Load</td>
<td>5 Hours</td>
<td>5 Hours</td>
<td>7 Hours</td>
</tr>
<tr>
<td>@ 75% Load</td>
<td>2 Hours</td>
<td>2 Hours</td>
<td>5 Hours</td>
</tr>
<tr>
<td>@ Rated Capacity</td>
<td>1 Hour</td>
<td>1 Hour</td>
<td>2 Hours</td>
</tr>
</tbody>
</table>

**Operating Temperature:** -22°F to 140°F

*Sun Surveillance reserves the right to change the specifications without notice.*
**SolsticeCam™ Sectional Poles**

are designed to provide an affordable and flexible mounting solution, allowing installation with less effort than other direct-burial poles.

The poles are constructed of schedule 40 extruded Aluminum, giving strength with corrosion resistance. They come prewired with all cables internally routed, giving the system added protection from both vandalism and the environment.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
MATERIAL

6000 Series Aluminum Alloy Grade 6061 T6, Schedule 40
Ultimate tensile strength: *45,000 psi (310 MPa) typical.
Tensile yield strength: *40,000 psi (276 MPa) typical.

* Data provided by the Aluminum Association, Inc. and are not for design purposes.

DIMENSIONS

SS-20DBP-4.5-AL-R-NT: 20’ x 4.5” diameter, 0.237” wall (7m x 114mm)
SS-20DBP-6-AL-R-NT: 20’ x 6.625” diameter, 0.28” wall (7m x 168mm)

Sectional design:

SS-20DBP-4.5-AL-R-NT: Wind Load Data:
Main section: 12’ (3.5m)
Base section: 8’ (2.5m)
Coupler: 12” (305mm)

Wind Speed
EPA* (ft²) 90 MPH 110 MPH 120 MPH 140 MPH
27 17 14 9.5

SS-20DBP-6-AL-R-NT: Wind Load Data:
Main section: 12’ (3.5m)
Base section: 8’ (2.5m)
Coupler: 14” (355mm)

Wind Speed
EPA* (ft²) 90 MPH 110 MPH 120 MPH 140 MPH
33.6 21.2 17.5 11.8

*Custom lengths can be requested.

WEIGHT

SS-20DBP-4.5-AL-R-NT: 81 lbs. (37kg)
SS-20DBP-6-AL-R-NT: 147 lbs. (67kg)

PROPERTIES

Pole Type: Direct-burial
Cross Section: Round
Finish: Satin-brushed finish

Wiring: Prewired with internal cable routing for added security.
Main section rotates 360° to facilitate solar panel and camera alignment during installation and is secured in place with 3/8” set screws.

* Sun Surveillance reserves the right to change the specifications without notice. EPA calculations based on 1.3 gust factor and assumes top of pole fixture mounting height.
**SolsticeCam™ Hinged Poles** provide an affordable, robust, and lightweight solution. Featuring a unique hinged base design allowing for easy installation.

The poles are constructed of tempered 6063 aluminum, giving strength and corrosion resistance to withstand even the most extreme environments. Comes prewired with all cables internally wired, giving the system added protection from both vandalism and the elements.

All **SolsticeCam™** systems are backed by our performance warranty, giving you the confidence that your system will be available when you need it.
MATERIAL

6000 Series Aluminum Alloy Grade 6063 T4, Base A356-T6

Ultimate tensile strength: *45,000 psi (310 MPa) typical.
Tensile yield strength: *40,000 psi (276 MPa) typical.

* Data provided by the Aluminum Association, Inc. and are not for design purposes.

HINGED MOUNT

The pole hinges at the base for an extremely easy installation.
The hinged pole comes in two standard sizes: 16’ x 6” diameter (5m x 152mm)
(pictured at left) and 20’ x 6” diameter (7m x 152mm).
Custom lengths below 20’ (7m) can be requested.