



# CA80 Series

IR Illuminator



CaMate

Continuous Variable Angle Technology •  
Auto-adjustable Beam Angle • High Uniformity

The CaMate CA80 is a series of professional IR illuminators designed with VIVOTEK's Continuous Variable Angle Technology (CVA Tech), providing highly efficient intensity and uniform distribution to fit 10° ~ 40° FOV via motorized adjustable beam angles up to 350 meters. The series offers multiple options for outdoor and long-distance in many applications such as traffic LPR/ANPR, airports, parking lots and many more.

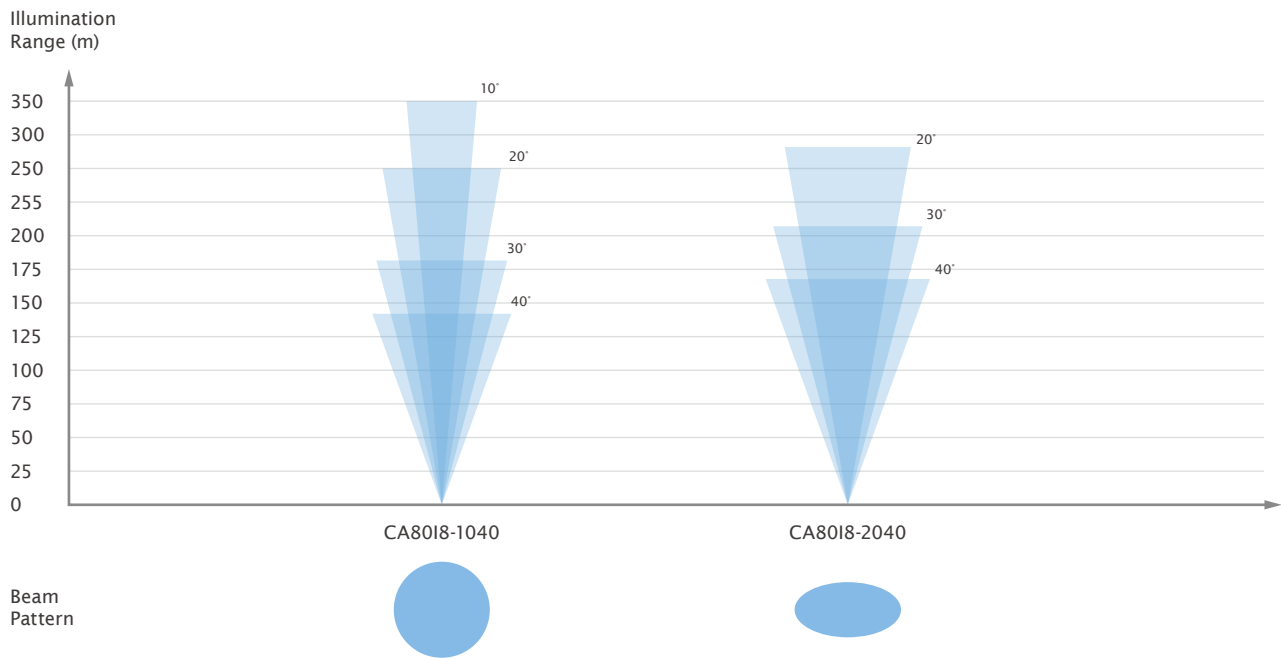
The CA80 series delivers accurate image quality with special beam pattern designs such as circular (-1040) and elliptical (-2040), providing high intensity and uniformity without hot spots or overexposure issues. The radiant power of the LED's are effectively projected on to the surveillance area. All ranges of variable angles can maintain highly efficient functionality while also conserving energy.

Thanks to CVA Tech, this series can adjust beam angles according to different installation distances, which make it easy to install. Further, a remote control provides users quick and easy to set-up the IR LED from the ground site. To meet the demands of different scenarios, the CA80 series is compatible with a variety of accessories, such as brackets, wall mounts and alignment tools. With the added support and flexibility of an abundance of accessories, the CA80 series is an excellent intelligent IR illuminator for optimizing your video performance in dark or low-light surveillance.

## Key Features

- Continuous Variable Angle Technology (CVA Tech)
- Variable Field of View 10° ~ 40°
- Motorized Adjustable Beam Angle up to 350 Meters
- High Uniformity without Hot Spots and Overexposure
- Accurate Image Quality with Special Beam Patterns for Different Solutions: Circular and Elliptical
- Extreme Weather Support
- Weather-proof IP68- and Vandal-proof IK10-rated Housing
- Flexible Installation
- Five-year Warranty

## Illumination Map



## Technical Specifications

| Model                      | CA8018-1040   | CA8018-2040                 |
|----------------------------|---|-----------------------------|
| <b>Product Information</b> |   |                             |
| Beam Angle(Horizontal)     | 10° ~ 40°   | 20° ~ 40°                   |
| Distance                   | 140 - 350 m<br>459 - 1148 ft  | 170 - 280 m<br>557 - 918 ft |
| Beam Pattern               | Circular  | Elliptical                  |
| LED Array                  | 24 pcs LED  |                             |
| Wavelength                 | 850nm   |                             |
| External Input             | IR ON/OFF control   |                             |
| External Output            | Day/Night switching   |                             |
| Automatic IR On/Off        | Controlled by Light Sensor  |                             |
| Light Sensor Sensitivity   | 1/5/10/30(default)/50/100% (Max. 1000 Lux)<br>(accessed via CaMate remote/RS-485 control) |                             |
| Adjustable IR Power        | 20%-100%<br>(accessed via CaMate remote/RS-485 control)                                   |                             |
| <b>General</b>             |   |                             |
| Power Input                | 24VDC ±10%, 24V AC(50/60Hz) ±10%  |                             |
| Power Consumption          | Max. 90 W   |                             |
| Operating Temperature      | -40 °C ~ +50°C (-40 °F ~ +122 °F)   |                             |
| Working Temperature        | -50 °C ~ +50 °C (-58 °F ~ +122 °F)  |                             |
| Dimensions                 | 220 x 160 x 73 mm (8.6 × 6.3 × 2.9 inch)  |                             |
| Weight                     | 2.1 kg  |                             |
| Cable Length               | 0.75 m (2.46 ft) UL AWM   |                             |

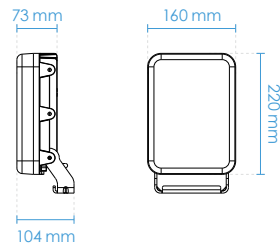
## Technical Specifications

|                       |  |             |
|-----------------------|--|-------------|
| Model                 | CA8018-1040  | CA8018-2040 |
| Casing                | IP68, IK10   |             |
| Safety Certifications | IEC 62471, EN 50130-4, CE: EN61000-6-3, EN60598-1, EN60598-2-5, FCC Class A, EN60529 |             |
| Humidity              | 90%  |             |
| Warranty              | 5 years  |             |







### Included Accessories

|                   |                                     |
|-------------------|-------------------------------------|
| Bracketry         | U-Type Bracket (134 × 34 × 81.5 mm) |
| Remote Controller | CMA-E01                             |

### Dimensions



## Compatible Accessories

| Bracket  |  | Mounting Kit   |
|--|--|--|
|  <p>AM-219<br/>L-Bracket for Dual CaMate Illuminators</p>               |  <p>CMA-B01<br/>L-Bracket for Single CaMate Illuminator</p>       |  <p>CMA-B03<br/>U-Type Bracket for Single CaMate Illuminator</p> |
|  <p>CMA-B04<br/>Wall-Mount Kit for Single/Dual CaMate Illuminator</p> |  |  |
| Alignment Kit  | Power Supply   |  |
|  <p>CMA-A01<br/>Laser Alignment Kit</p>                                 |  <p>HLG-120H-24<br/>120W Single Output Switching Power Supply</p> |  |