



CM80 Series

IR Illuminator



CaMate

Continuous Variable Angle Technology •
Adjustable Beam Angle • High Uniformity

CaMate CM80 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° ~ 120° FOV via 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.

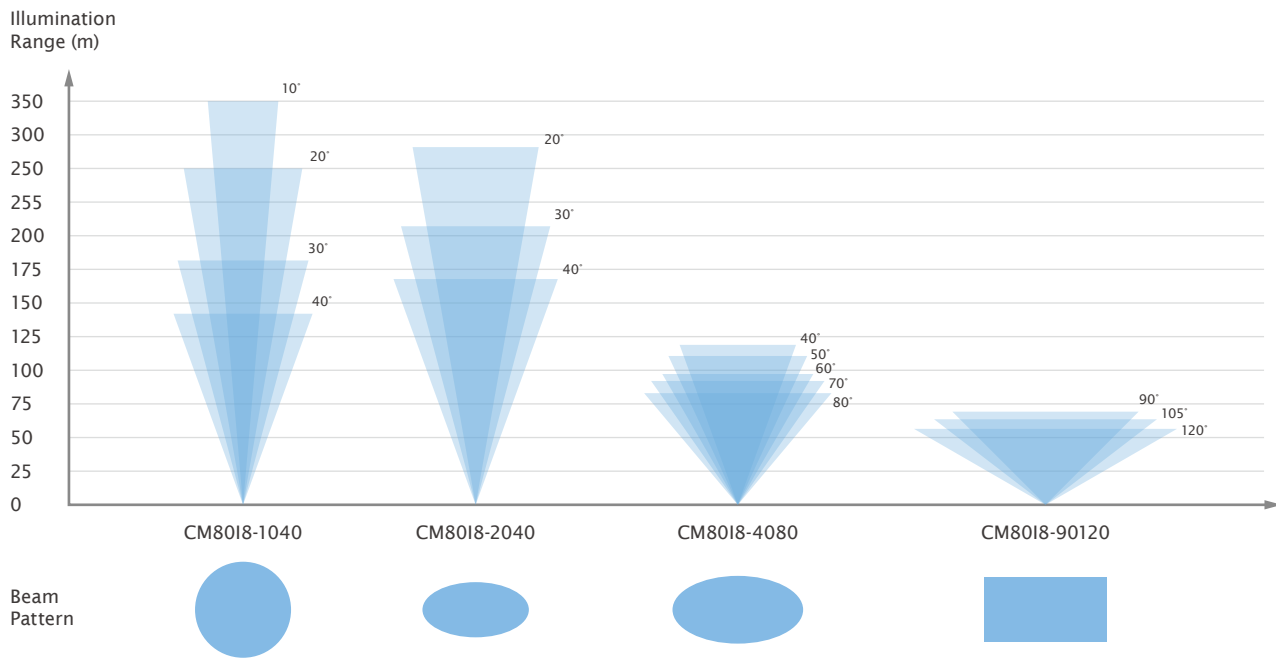
The CM80 series delivers accurate image quality with special beam pattern designs such as circular (-1040), elliptical (-2040/4080) and rectangular (-90120), providing high intensity and uniformity without hot spots or overexposure issues. The radiant power of the LED's are effectively projected on to 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, an optional 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 CM80 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 CM80 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° ~ 120°
- 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, Elliptical and Rectangular
- Extreme Weather Support
- Weather-proof IP68- and Vandal-proof IK10-rated Housing
- Flexible installation
- Five-year Warranty

Illumination Map



Technical Specifications

Model	CM8018-1040	CM8018-2040	CM8018-4080	CM8018-90120
Product Information				
Beam Angle (Horizontal)	10° ~ 40°	20° ~ 40°	40° ~ 80°	90° ~ 120°
Distance	140 - 350 m 459 - 1148 ft	170 - 280 m 557 - 918 ft	80 - 120 m 262 - 393 ft	60 - 70 m 196 - 229 ft
Beam Pattern	Circular	Elliptical	Elliptical	Rectangular
LED Array	24 pcs LED			
Wavelength	850 nm			
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) (accessed via CaMate remote/RS-485 control)			
Adjustable IR Power	20% ~ 100% (accessed via CaMate remote/RS-485 control)			
General				
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			

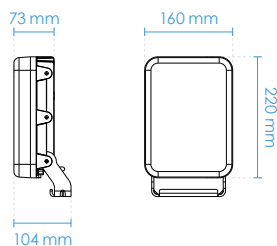
Technical Specifications

Model	CM8018-1040	CM8018-2040	CM8018-4080	CM8018-90120
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)
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Dimensions



Compatible Accessories

Bracket			Mounting Kit		
					
AM-219 L-Bracket for Dual CaMate Illuminators	CMA-B01 L-Bracket for Single CaMate Illuminator	CMA-B03 U-Type Bracket for Single CaMate Illuminator	CMA-B04 Wall-Mount Kit for Single/Dual CaMate Illuminator	CMA-B05 Wall-Mount Kit for Dual/Triple CaMate Illuminator	CMA-B06 Wall-Mount Kit for Dual/Triple CaMate Illuminator
Alignment Kit	Remote Controller	Power Supply			
					
CMA-A01 Laser Alignment Kit	CMA-E01	HLG-120H-24 120W Single Output Switching Power Supply			