MK-1830-VCCL17

EVVE HD LONG-RANGE CAMERAS

EVVE Long Range cameras are custom built after the requirements of the end user because the MK-serie comes with an extensive option list. The MK-1830-VCCL17 cameras have an advanced lens (with auto focus, different filters, 60x zoom and stabilization) and a laser illumination up to 30 km. The cameras are turn-key solutions with the MK-1700. The MK-1700 is completely cabled and all electronics are mounted inside. This will reduce the installation time with almost 85% and makes the installation very easy. Power and the selected data transmission only need to be connected to the MK-1700.

The MK-1830-VCCL17 are standard built with the MK-1100 (non continuous rotation pan and tilt unit), but the end user can instead complete the camera with the MK-1200 (continuous rotation pan and tilt unit). Moreover, the end user can choose thermal options (uncooled with zoom or fixed lenses) and options as High Sensitive Camera, Temperature Control, Video Stabilization & Enhancement, Search Light, Laser Range Finder, Fiber Optic Output and Data Video Output. The cameras are fully integrated with radar systems and Vessel Tracking Information System. Our systems are ONVIF S and Pelco D extended.

APPLICATION

LONG-RANGE SURVEILLANCE

VESSEL TRAFIC MONITORING

BORDER PROTECTION

CRITICAL INFRASTRUCTURE PROTECTION

AIRPORT PERIMETER SURVEILLANCE

FEATURES

- The MK-1830-VCCL17 cameras have pan and tilt functionality and anti-backlash gearing, allowing for pointing recall at 0.015 degrees, which is an exceptional level of accuracy
- The camera system can also adjust for fog and mist
- Functionality for the identification of vessels up to 30 km away
- Designed as an open platform to be integrated with Vessel Tracking Information Management System (VTIMS), Ground Radar, Marine Radar and Video Management Systems
- Standard: 400° non continuous rotation for pan and 180° for tilt. The end user can set the soft stops as end stops
- Runs on Pelco D extended protocol
- Compatible with all IP communication protocols
- IP66 certified to operate in marine and desert environments

SPECIFICATIONS & OPTIONS

MK-1830-VCCL17

SYSTEM	
IP Rating (Dust & Water Ingress)	IP66
Operating Temperature Range	-40° C to +60°C
Active Internal Temperature Control (AICT)	Yes
Sealed	Yes
Connectors	ODU
Weight	65 kg (Depending on the selected options)
Input Voltage	110 VAC / 230 VAC
Output	Data
Power Consumption	130 W

PAN & TILT UNIT	
MK-1100 Pan Angle	Non Continuous 400°; 0,01° to 60°/sec with soft stops (speeds in 4 steps)
Tilt Angle	180°; 0,01° to 30°/sec with soft stops (speeds in 4 steps)
Backlash	0,0015°
Control Speed	0,01° to 30°/sec (4 steps) controlled
Accuracy	Optical Controlled

VISUAL CAMERA	
Video Type	HD-SDI Full HD
Sensor Type	1/3” Progressive Scan CMOS
Sensor Illumination	Color : 0.02lx (F1.2 / AGC48dB) /0.007lx (F1.2 / AGC48dB / accumulation 60 times B/W : 0.002lx (F1.2 / AGC48dB) /0.0007lx (F1.2 / AGC48dB / accumulation 60 times
Fog Filters	Yes
Day & Night (W/B Switching)	Color / B/W / Auto (ICR)
Noise Reduction	Yes
Sens-up	Automatic

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ADVANCED LENS	
Zoom	120x
Internal Extender	Yes
Fog Filter	Yes
Optical Stabilization	Yes
F Stop	F 1, 2
Auto Focus	Yes

LASER	
Output Power	Adjustable 6-20W
Spectrum	960 - nm
Covert Distance	30 km
Cooling	ACITS*
Functionality	Steerable

* Automatic Controlled Internal Temperature System

AVAILABLE OPTIONS	
VCCL27	MK1200: Pan Angle: Continuous 360°; 0,01° to 60°/sec
HSVC	High Sensitive Visual Camera
VE	Video Enhancement
VE	Video Stabilization
SL	Search Light
LRF	Laser Range Finder
VIDEO OUTPUT OPTIONS	
FO	Fiber Optic Output Multi Mode or Single Mode
D	Data

evve LONG RANGE

SPECIFICATIONS OF THE HIGH SENSITIVE CAMERA (HSVC) OPTION

MK-1830-VCC17

HIGH SENSITIVE VISUAL CAMERA (HSVC)	
Minimum Subject Illumination	0.005lx (F1.4, 1/30, +60 dB)
Image Sensor	CMOS, 2/3" size
Pixel size	5.0µm (H) × 5.0µm (V)
Resolution – Total number of pixels	Approx. 2.60 Mpixles. 2.270 (H) × 1.144 (V) pixels
Resolution – Effective number of pixels	Approx. 2.20 Mpixles. 1.974 (H) × 1.100 (V) pixels
Image Sensing	Colour
Filter	RGB Primary Colour Filter (Bayer Array)
Sensitivity	F11 2000lx
Horizontal Definition	Over 900TV lines
Spectral Sensitivity	390-700 nm
Video Noise Reduction	KCnoise™ – Proprietary 2D/3D Noise Reduction
Dynamic Range	250%
Scanning System	Progressive
Overload Response	Rapid - makes consecutive recording possible, even with large change in ambient light
Frame Rate	60 fps
Electronic Zoom	x1, x2, x3, x4, x5, x6, x7, x8, x9, x10
Picture Flip	Vertical Flip, Horizontal Flip, Vertical & Horizontal Flip
Test Patterns	Colour bars, Grayscale, Crosslines available internally
Privacy Mask	8 Masks GRAY/WHITE/BLACK
OSD	Operational menu S/N RATIO over 50dB (γ =1, edge enhancement OFF)

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Jongeveen 17
3755 XA Eemnes
The Netherlands

Phone | +31 (0(70 2500039 (NL)
E-mail | info@evvelongrange.com
Web | www.evvelongrange.com

COC No. | 67664059
VAT No. | NL 853373267B01