

NightVista® M611-05

Low Light Level Camera



M611-05
Camera



ISIE11 Sensor

The NightVista® M611-05 camera incorporates EVS's ISIE11 Electron Bombarded Active Pixel Sensor (EBAPS®) for extreme low light sensitivity. The camera offers a 1600 x 1200 pixel UXGA resolution with a 60 Hz frame rate and can be configured for either rolling or snapshot shutter at the factory.

The M611-05 camera integrates a high voltage power supply (HVPS), temperature sensor, and flash memory to store image correcting parameters, as well as additional supporting electronics. The photons from the scene are focused onto the photocathode and the resulting photoelectrons are accelerated across a vacuum gap and proximity focused on the back-illuminated CMOS anode to produce digital image intensified (DI2) video with very low noise.

With EVS's patented low halo technology and automatic gain control (AGC), the NightVista® M611-05 is highly effective operating in extreme low light conditions and in limited day mode without the customary halo associated with analog night vision devices.

APPLICATIONS

- Day or night reconnaissance
- Helmet-mounted cameras
- Ground, maritime and avionics

FEATURES/BENEFITS

- Digital output
- Small size
- Lightweight
- Low power CMOS-based design
- User configurable
- Low halo technology



STANDARD HALO



LOW HALO

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CONTACT

3548 Bassett Street
Santa Clara, CA 95054 USA
+1-888-368-4656

EVSKC01

03.24.2025

NightVista® M611-05

Low Light Level Camera

TECHNICAL SPECIFICATIONS

IMAGE FORMAT	1600 × 1200 pixels (UXGA) with ± 20 pixel electronic positioning
PIXEL SIZE	10.8 µm square
SENSOR FORMAT	4/3" (mm diagonal)
SPECTRAL RESPONSE	Night mode (intensified): 400 nm – 900 nm Day mode* (non-intensified): ~800 nm - ~1050 nm
MIN. FACEPLATE ILLUMINANCE	10 ⁻⁵ lux
FRAME RATE	Up to 60 Hz (progressive) full frame, higher frame rates in windowed mode*
SHUTTER TYPE	Snapshot / Rolling shutter
OUTPUT SIGNAL FORMAT	CameraLink® Base (10-bit digital video)
COMMUNICATION	RS-232 or CameraLink®
DEFECTIVE PIXELS	< 0.1%, additional grades and a detailed cosmetic specification available upon request*
VOLTAGE	6 VDC (min) to 15 VDC (max)
POWER	2.4 W nominal
DIMENSIONS, W × H × D	1.8" × 1.8" × 3.2"
WEIGHT	271g (without lens)
LENS MOUNT	C-mount, 1" optical format
CAMERA FUNCTIONS	Day mode, night-mode Non-Uniformity Correction (NUC), Bad Pixel Replacement (BPR), AGC, eXtended Dynamic Range (XDR) with enable/disable capability, real-time contrast enhancement, horizontal image orientation/flip, zoom/window/frame rate options, external signal synchronization (Genlock), electronic image centering (1640 x 1240 active pixels)
INCLUDED SOFTWARE	Control Software (GUI)

*Contact for further information

ORDER INFORMATION

NightVista® M611-05 Camera
300735

NightVista® M611-05
Accessory Kit
300779-02

Includes accessories:

CameraLink® Cable

1-001035

Serial / Wall Power Supply Cable

1-001035

Serial / Lab Power Supply Cable

447303

Wall Power Supply

1-002726

PVS-14 Lens

1-001631

PVS-14 Lens Adapter

300061

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