EVS

EDGE VISION SYSTEMS

NightVista® M619
Low Light Level Camera

M619 Camera   ISIE19 Sensor

The NightVista® M619 camera represents the next generation in EVS's industry-leading digital low-light EBAPS® sensor technology. Incorporating EVS's proprietary ISIE19 Electron Bombarded Active Pixel Sensor (EBAPS) for extreme low light sensitivity, the camera offers a 1920 × 1920 pixel resolution at 160 Hz frame rate, and can operate in either rolling shutter or pseudo-snapshot mode.

With ISIE19 sensor capabilities and EVS-proprietary image-processing algorithms, the M619 provides enhanced visual acuity for today's warfighter systems. Features of the ISIE19 sensor — including high bit depths for increased linear dynamic range, equivalent background noise at a higher operating temperature than that of Gen-III technology, and patented zero-halo technology — deliver high-quality imagery in even the most extreme low light conditions. The camera's high frame rate minimizes the blur and image lag typically observed in dynamic imaging environments with lower frame-rate digital cameras. Its digital output offers unmatched flexibility for data sharing and providing input to augmented reality systems.

A camera core that includes the ISIE19 sensor on a headboard and a high-voltage power supply is also available. Contact the factory for details.

High Dynamic Range Imagery
(Vignetting from the Lens)

APPLICATIONS

- Night/day surveillance and reconnaissance
- Pilotage/navigation of air and ground vehicles
- Multi-sensor payloads

FEATURES/BENEFITS

- High linear dynamic range
- Low background noise
- Zero-halo technology
- Digital video output
- High frame rates

EDGEVISIONSYSTEMS.COM

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CAMERA & SENSOR DIVISION OF **EOTECH**

NightVista® M619
Low Light Level Camera

TECHNICAL SPECIFICATIONS

IMAGE FORMAT	1920 × 1920 pixels
PIXEL SIZE	9.117 µm square
SENSOR FORMAT	24.7mm diagonal
SPECTRAL RESPONSE	Night mode (intensified): 400 nm – 900 nm Day mode (non-intensified): ~800 nm - ~1050 nm
FRAME RATE	155 Hz full frame, with higher frame rates in windowed mode
SHUTTER TYPE	Rolling shutter or pseudo snapshot
OUTPUT SIGNAL FORMAT	CoaXPress, 16-bit depth
CONTROL	USB Type C Serial
DEFECTIVE PIXELS	< 0.1%, a detailed cosmetic specification available upon request
VOLTAGE	9V external power or powered over CoaXPress
POWER	8 W nominal @ 160 fps
DIMENSIONS, W × H × D	2.5" × 2.3" ×4.8"
WEIGHT	425g (without lens)
LENS MOUNT	C-mount, F-mount, or PVS-14, depending on camera variant ordered
CAMERA FUNCTIONS	Non-Uniformity Correction (NUC), Bad Pixel Replacement (BPR), Automatic Gain Control (AGC), horizontal image flip, Window/frame-rate options, Genlock (ext. signal sync), Local Tone Mapping (LTM)
INCLUDED SOFTWARE	Control Software (GUI)

NOTE: The product associated with this data sheet is under the export control of the Office of Defense Trade Controls, U.S. Department of State, and is subject to the International Traffic in Arms Regulations. Transshipment of the acquired product to any destination outside of the United States (or to a foreign person/entity within the United States) without the knowledge and written consent of the Office of Defense Trade Controls is strictly prohibited.

NOTE: Additional technical details are available upon request.

ORDER INFORMATION

NightVista® M619 Camera PVS-14 Lens Mount, PVS-14 Lens
301409-01

NightVista® M619 Camera w/ C-mount Lens Mount
301409-02

NightVista® M619 Camera w/ F-mount Lens Mount
301409-03

CAMERAS INCLUDE

- CoaXPress Cable (Qty 2)
- Serial / Lab Power Supply Cable
- USB Type C to Type A Cable
- Control Software (GUI)

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