EDGE VISION SYSTEMS

CAMERA & SENSOR DIVISION OF EOTECH

EDGE VISION SYSTEMS

2025
PRODUCT CATALOG

COMMAND THE SHADOWS.

THE COMPETITIVE EDGE. SEE WHERE OTHERS CAN'T.

Edge Vision Systems (EVS™), a digital sensor and camera affiliate of EOTECH®, specializes in high-sensitivity night vision sensors, cameras, and systems. Designed for the most demanding environments, EVS™ technology has been field-tested and battle-proven by elite warfighters across the U.S. Military and allied forces.

CAMERAS & SENSORS

ABOUT

EVS™

EDGE VISION SYSTEMS

LIVAR® M506

GATED SWIR CAMERA SYSTEM

The LIVAR® M506 Gated SWIR Camera System is ideal for covert operations and target identification, supporting lasers from 1.0 – 1.6 µm. Cost-effective, compact and lightweight, this range-gated, two-dimensional imaging camera operates in the eye-safe Short Wave Infrared (SWIR) band, provides day and night coverage, and supports mounted and dismounted operations. The camera system includes the camera, High Voltage Power Supply (HVPS) and Thermoelectric Cooler Controller (TECC). An optional high-PRF version is available that allows the use of low-power, high-PRF diode lasers with the camera in accumulation mode.

Working in conjunction with a range detector, the LIVAR® M506 system sets the range gate for the target location to provide a stream of digital images optimized for that range. The camera can be set to active master, active slave, or passive imaging modes to accommodate a variety of applications.

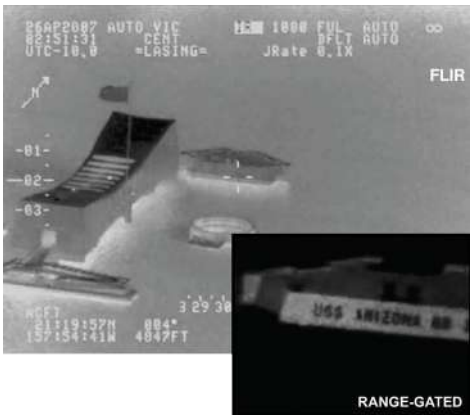
The LIVAR® M506 system offers system integrators an advanced long range surveillance camera at a low cost.

APPLICATIONS

- Airborne, ground and maritime
- Long range reconnaissance and surveillance

FEATURES/BENEFITS

- SWIR response from 0.95 –1.65 nm supports multiple laser wavelengths
- Small, rugged sensor for demanding applications
- Photon shot noise limited due to electron bombarded gain
- Provides imagery for positive standoff combat identification
- Penetrates battlefield obscurants, haze, windshields, and windows
- Optional high-PRF version allows the use of low-power, high-PRF lasers



TECHNICAL SPECIFICATIONS

SENSOR PHOTOCATHODE	Transferred electron photocathode
CAMERA RESOLUTION	640 × 512 pixels (8.576mm × 6.861mm imager)
SENSOR FORMAT	2/3"
PIXEL SIZE	13.4 µm
SPECTRAL RESPONSE	950 nm to 1650 nm
QUANTUM EFFICIENCY (QE)	≥ 25% @ 1.55 µm
LIMITING RESOLUTION	≥ 28 lp/mm
DARK CURRENT	≤ 100 nA/cm^2
DYNAMIC RANGE	≥ 48 dB
PERCENT GOOD ELEMENTS	≥ 99.8%
FRAME RATE	≤ 30 fps at full camera image format. Image can be windowed for higher frame rates.
VIDEO OUTPUT	CameraLink® Base
CONTROL INTERFACE	RS-232, RS-422 & LVDS
SELECTABLE CAMERA MODES	Active Master, Active Slave, Passive Imaging
HVPS GATE	Minimum gate width ~ 70 ns, gate rise & fall time ~ 65 ns.
HIGH-PRD OPTION	PRF up to 7,500 Hz with camera in accumulation mode. Contact factory for ordering information.
INPUT VOLTAGE	Camera: 12 VDC, HVPS: 12 VDC, TECC: 6 VDC
POWER CONSUMPTION	Camera: 3 W, HVPS: 1.2 W, TECC: 22.2 W
DIMENSIONS, W × H × D	Camera: 1.8" × 2.6" × 2.8", HVPS: 2.0" × 2.0" × 1.4", TECC: 2.0" × 1.8" × 0.5"
WEIGHT	Camera: 280g, HVPS: 159g, TECC 118g
OPERATING TEMPERATURE	-40°C to +70°C, TECC required above +20°C. Contact factory for specific TECC set points.
STORAGE TEMPERATURE	-51°C to +71°C
OPERATING ALTITUDE	≤ 15,000 ft
OPERATING SHOCK	20 g's peak value, 11 ms duration, 3 axes
OPERATING VIBRATION	0.040 g^2/Hz from 5 to 2,000 Hz
INCLUDED SOFTWARE	Graphical User Interface (GUI) with ability to set camera mode

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ORDER INFORMATION

LIVAR® M506 Camera
CONTACT FACTORY

LIVAR® HVPS
446531

LIVAR® TECC
CONTACT FACTORY

LIVAR® Accessory Kit
(includes accessories below)
446323

LIVAR® Cable, Power-Serial
446923

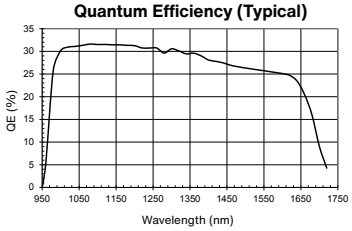
LIVAR® Cable, TECC
660801

LIVAR® HV Cable (Qty 2)
1-001033

CameraLink® Cable Adapter
446910

CameraLink® MDR Cable
1-000711

Quantum Efficiency (Typical)



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Apache M611-02

LOW-LIGHT LEVEL CAMERA

The Apache camera incorporates EVS's proprietary ISIE11 Electron Bombarded Active Pixel Sensor (EBAPS®). Designed for a variety of nighttime and extreme low light imaging conditions, the sensor enables the camera to provide clear imagery from extreme darkness through the twilight transition period. The camera was specifically designed for the U.S. Army's Apache Arrowhead Modernized Target Acquisition Designation Sight/Pilot Night Vision Sensor (M-TADS/PNVS) Program. EVS is the prime contractor for the program's PNVS digital image intensifier.

In addition to the ISIE11, the Apache camera integrates a high voltage power supply (HVPS), temperature sensor, FLASH memory for image correcting parameters and support electronics. The camera's optical window transfers input to the sensor from the external lens. The optical image is focused onto the photocathode and the resulting photoelectrons are accelerated across a vacuum gap and proximity-focused on the back-illuminated CMOS anode.

Gain is achieved by the electron multiplication that results when the high-velocity electrons dissipate their energy in the silicon chip, which creates electron-hole pairs in the back surface of the CMOS Focal Plane Array (FPA). The pixels are read out, sampled and converted to 10-bit LVTTL digital data inside the camera. The pixel data is framed and sent to the digital video bus for output from the camera in the form of a high speed serial interface.

FULL MOON

ZERO MOON

APPLICATIONS

- Day or night reconnaissance
- Ground, maritime and avionics

FEATURES/BENEFITS

- Blended low-light TV and thermal imagery
- Eliminates night vision goggle requirement
- Identifies light from laser pointers
- Improved acuity and resolution

TECHNICAL SPECIFICATIONS

OUTPUT FORMAT	1280 × 960 pixels, 30 fps interlaced Native format: 1600 × 1200 pixels, 60 fps, progressive
FIELD-OF-VIEW (FOV)	40° × 30° nominal
HIGH SPEED SERIAL LINK VIDEO INTERFACE	Per ANSI X3.230-1994 at 1062.5 Mb/s
TCCL COMMAND AND CONTROL	RS-485 per ICD
TEST PATTERN OUTPUT	Multiple patterns including overlay of patterns onto the image
LOW-GLARE LENS AND SENSOR	AR-coated and darkened sensor edges, low-halo sensor
SENSOR PROTECTION	Integrated light sensor and shutter
NON-UNIFORMITY CORRECTION (NUC)	3-parameter correction on all pixels
BAD PIXEL REPLACEMENT (BPR)	All defective pixels replaced by nearby good pixel
CONTRAST ENHANCEMENT (CE)	Stretch with gamma correction
EXTENDED DYNAMIC RANGE (XDR)	Greater than 80 dB intra-scene dynamic range
AUTOMATIC GAIN CONTROL (AGC)	In-camera f/10 flip-in aperture for bright scenes > 110 dB inter-scene dynamic range
BLENDING OPTION	Bright-light fusion with FLIR imagery
POWER INPUT	+28 VDC regulated to +/- 1.5 V
POWER CONSUMPTION	< 42W (average) or 53W (peak)
OPERATING TEMPERATURE	-40°C to +60°C
NON-OPERATING TEMPERATURE	-55°C to +71°C
SHOCK OPERATING	20 g's peak value, 11 ms duration, 3 axes
VIBRATION OPERATING	Per MIL-STD-810
MTBF	7,000 hrs per MIL-HDBK-217

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ORDER INFORMATION

Apache M611-02 Camera
300330-01

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

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 POWER	< 0.1%, additional grades and a detailed cosmetic specification available upon request*
VOLTAGE	6 VDC (min) to 15 VDC (max)
	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

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.

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

HIGH DYNAMIC RANGE IMAGERY
(Vignetting from the lens)

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)

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NOTE: Additional technical details are available upon request.v

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)

MicroVista® M716

VISNIR LOW-LIGHT CMOS LEVEL CAMERAS

M716-01 M716-02 M716-03

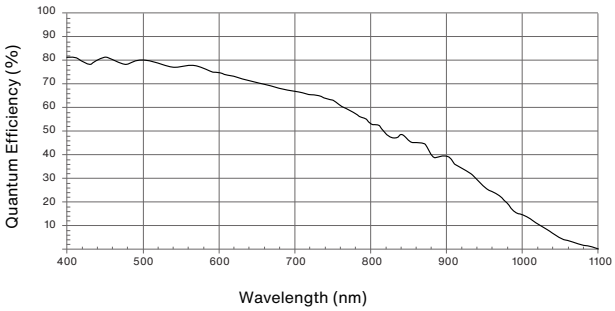
MicroVista® M716 cameras represent EVS's next-generation high-performance CMOS sensor technology. With high sensitivity in the visible (Vis) and near-infrared (NIR) bands, and with NIR enhancement that extends the spectral range to 1060 nm, the back-illuminated CMOS sensor supports up to a 1280 x 1280 image format with 9.117 µm square pixels at up to 120 frames per second (fps). With excellent sensor full-well capacity (>100 dB) and low noise (2.6 e-), combined with its 16-bit maximum pixel depth, M716 cameras deliver outstanding intra-scene dynamic range. The cameras include a local tone mapping (LTM) algorithm to improve low light region visibility in high dynamic range scenes.

The M716 camera line includes the following configurations, all with the same CMOS imager:

- **M716-01**: MIPI Camera with a fixed lens, 65° H x 40° V FoV, 1280 x 840 image format, maximum 90 fps, ICD documentation available for integration
- **M716-02**: MIPI Camera with a C-Mount lens receptacle, 1280 x 1280 image format, maximum 120 fps, ICD documentation available for integration
- **M716-03**: USB-C Camera with a C-Mount lens receptacle, 1280 x 1280 image format, maximum 90 fps, GUI software (MS Windows based)

The M716-01 and M716-02 cameras are ideal for integration into multi-sensor suites, EO payloads, or other applications requiring VisNIR imaging capabilities. Exceptional performance, small form factor, and low power consumption make the M716 cameras ideal for a broad range of applications.

M716 QE VS. WAVELENGTH



APPLICATIONS

- Surveillance and perimeter security
- Military night operations
- Gimbaled multi-sensor suites
- Particle counting and measuring
- Spectroscopy
- Microscopy
- Biometrics
- Medical imaging

FEATURES / BENEFITS

- High visible and NIR sensitivity: 400 nm - 1060 nm
- High dynamic range, low noise performance
- Frame rate up to 120 fps for full-frame (1280 × 1280) video

ORDER INFORMATION

M716-01 65 Deg MIPI Camera **301523-01**
M716-02 C-Mount MIPI Camera **301820**
M716-03 C-Mount USB-C Camera **302101**

TECHNICAL SPECIFICATIONS

	M716-01 65 Deg MIPI Camera	M716-02 C-Mount MIPI Camera	M716-03 C-Mount USB-C Camera
IMAGE SENSOR	Back-illuminated CMOS, optimized for NIR response		
PIXEL SIZE	9.117 µm square		
IMAGE FORMAT	1280 × 840	1280 × 1280	
SPECTRAL RESPONSE	400 nm - 1060 nm		
NOISE	2.6 e- read noise, 50 e-/pixel/s dark current @ 25°C, integrated fixed pattern noise reduction		
DYNAMIC RANGE	> 100 dB		
DIGITAL OUTPUT BIT DEPTH	8, 12, 16 bits		8, 16 bits
FIELD OF VIEW	65° horizontal × 40° vertical	N/A	
LENS F/#	f/1.25	N/A	
LENS MOUNT	N/A	C-Mount	
SHUTTER TYPE	Rolling shutter		
POWER CONSUMPTION	1.3 W @ 90 fps and 8-bit output		1.4 W @ 90 fps and 8-bit output
DIMENSIONS	25 × 25 × 32mm including lens, 36.4mm flange diameter including alignment ears	45.72mm diameter x 27.31mm including lens receptacle	45.72mm diameter x 41.95mm including lens receptacle
WEIGHT	30g	27g without chassis nut 44g with chassis nut	65g without chassis nut 81g with cassis nut
MOUNTING HOLE DIAMETER, FASTENER	26.5mm through-hole, supplied chassis nut (M25 x 0.7)	30.4mm through-hole, supplied chassis nut (M30 x 1.5)	
ALIGNMENT FEATURE	Chassis Alignment Ears / Slot @ 12:00 Position		
OPERATING TEMPERATURE	-40°C to +65°C		
OUTPUT SIGNAL FORMAT	4-lane CSI-2 MIPI		USB-C
INCLUDED DOCUMENTATION	Interface Control Document (ICD)		Camera Operating Manual, GUI Operating Manual
INCLUDED SOFTWARE	N/A		MS Windows GUI

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ISIE11 Camera Module

LOW LIGHT LEVEL CAMERA

ISIE11 Camera Module

The ISIE11 Camera Module incorporates EVS's proprietary ISIE11 Electron Bombarded Active Pixel Sensor (EBAPS®) for extreme low-light imaging down to overcast starlight conditions, with an image format of 1600 x 1200 pixels and a pixel size of 10.8 µm square. The module includes the ISIE11 sensor on a headboard, a high voltage power supply (HVPS), a processor board, and the required connections between them. This unpackaged configuration makes the ISIE11 Camera Module ideal for integration into a variety of platforms such as helmets, UXV payloads, and surveillance cameras.

The ISIE11 sensor incorporates a high quantum efficiency (QE) gallium arsenide (GaAs) photocathode with responsivity between 400 – 900 nm (visible through NIR) and a backside illuminated (BSI) CMOS anode capable of up to 60 frames per second (fps) with a 10-bit extended dynamic range (XDR) digital video output, capable of windowing to provide a subset of pixels at a higher frame rate. Low light sensitivity is achieved in the sensor when the HVPS applies a high voltage across a vacuum gap between the photocathode and the CMOS anode, accelerating electrons across the gap and creating electron-hole pairs in the backside of the anode, resulting in high gain with very low noise. The sensor incorporates EVS's proprietary low halo technology and runs in snapshot shutter mode.

The processor board further enhances the acquired imagery by applying bad pixel replacement (BPR), non-uniformity correction (NUC), XDR linearization, and contrast enhancement (CE). An Interface Control Document (ICD) for the power, control, and data interfaces is available for integrators per ITAR restrictions.

APPLICATIONS

- Day or night reconnaissance
- Rotary and fixed-wing pilotage
- UXV payloads
- Helmet-mounted cameras
- Digital replacement for Gen III night vision
- Imagery export for situational awareness

FEATURES / BENEFITS

- NIR laser visibility
- Low halo technology
- Digital output
- Snapshot shutter
- High dynamic range
- Compatible with augmented reality systems

TECHNICAL SPECIFICATIONS

IMAGE FORMAT	1640 x 1240 pixels (1600 x 1200 useable)
PIXEL SIZE	10.8 µm square (100% fill factor)
SENSOR FORMAT	1" (22.2 mm diagonal)
SPECTRAL RESPONSE	Night mode (intensified): 400 nm – 900 nm Day mode (non-intensified): ~800 nm - ~1050 nm
DYNAMIC RANGE	60 dB with intensification enabled, 88 dB with multiple slope XDR operation
FRAME RATE	60 fps at full frame
SHUTTER TYPE	Snapshot
LOW LIGHT SENSITIVITY	Overcast starlight depending on mission objectives
NON-UNIFORMITY CORRECTION (NUC)	3-parameter correction on all pixels
BAD PIXEL REPLACEMENT (BPR)	All defective pixels replaced by nearby good pixel
CONTRAST ENHANCEMENT (CE)	Stretch with gamma correction
VIDEO OUTPUT	10-bit LVDS
CONTROL INTERFACE	SPI
POWER CONSUMPTION	1.2 W @ 60 fps
POWER INPUT	1.2V @ 0.45A, 2.5V @ 0.05A, 1.8V @ 0.12A, 3.0V @ 0.03A, 3.5V @ 0.09A, 1.9V @ 0.03A, 3.3V @ 0.04A
OPERATING TEMPERATURE	-40°C to +60°C
STORAGE TEMPERATURE	-55°C to +71°C
WEIGHT	42 g

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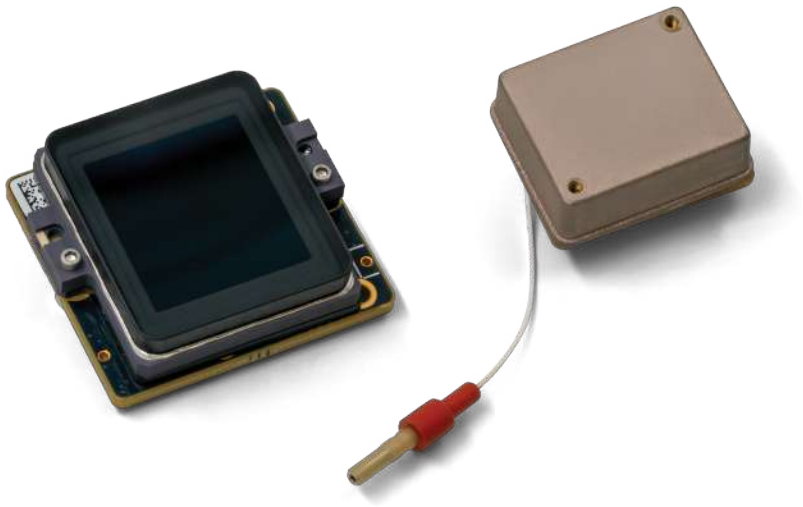
NOTE: Additional technical details are available upon request.v

ORDER INFORMATION

ISIE11 Camera Module
300588-54

ISIE19 Sensor Module

FOR EXTREME LOW-LIGHT IMAGING



ISIE19 Camera Module

The ISIE19 Sensor Module incorporates EVS's proprietary ISIE19 Electron Bombarded Active Pixel Sensor (EBAPS®) for extreme low-light imaging down to overcast starlight conditions, with an image format of 1920 x 1920 pixels and a pixel size of 9.117 µm square. The module includes the ISIE19 sensor on a headboard and a high voltage power supply (HVPS) capable of driving one or two sensors (contact the factory if a two-sensor configuration is desired). This unpackaged configuration makes the ISIE19 Sensor Module ideal for integration into a variety of platforms such as helmets, UXV payloads, and surveillance cameras.

The ISIE19 sensor incorporates a high quantum efficiency (QE) gallium arsenide (GaAs) photocathode with responsivity between 400 – 900 nm (visible through NIR) and a backside illuminated (BSI) CMOS anode capable of up to 155 frames per second (fps) full frame with a 16-bit digital video output, capable of windowing to provide a subset of pixels at a higher frame rate. The sensor is designed around a novel pixel architecture that achieves up to 100 dB dynamic range. Low light sensitivity is achieved in the sensor when the HVPS applies a high voltage across a vacuum gap between the photocathode and the CMOS anode, accelerating electrons across the gap and creating electron-hole pairs in the backside of the anode, resulting in high gain with very low noise. The sensor incorporates EVS's proprietary low halo technology and runs in rolling or pseudo-snapshot shutter mode.

An Interface Control Document (ICD) for the power, control, and data interfaces is available for integrators per ITAR restrictions.

APPLICATIONS

- Day or night reconnaissance
- Rotary and fixed-wing pilotage
- UXV payloads
- Helmet-mounted cameras
- Digital replacement for Gen III night vision
- Imagery export for situational awareness

FEATURES / BENEFITS

- NIR laser visibility
- Fast frame rate for head-mounted applications
- 1:1 aspect ratio for better vertical FoV
- Low halo technology
- Digital output
- High dynamic range
- Compatible with augmented reality systems

TECHNICAL SPECIFICATIONS

IMAGE FORMAT	1920 x 1920 pixels
PIXEL SIZE	9.117 µm square (100% fill factor)
SENSOR FORMAT	1" (24.7 mm diagonal)
SPECTRAL RESPONSE	Night mode (intensified): 400 nm – 900 nm Day mode (non-intensified): ~800 nm - ~1050 nm
DYNAMIC RANGE	Up to 96 dB
FRAME RATE	155 fps @ full frame
SHUTTER TYPE	Rolling or pseudo-snapshot
LOW LIGHT SENSITIVITY	Overcast starlight depending on mission objectives
VIDEO OUTPUT	16-bit LVDS
CONTROL INTERFACE	SPI
POWER CONSUMPTION	1076 mW @ 155 fps (single sensor configuration)
POWER INPUT	1.2 V @ 220 mA, 1.8 V @ 85 mA, 3.3V @ 36 mA, 4.0V @ 135 mA (single sensor configuration)
OPERATING TEMPERATURE	-40°C to +60°C
STORAGE TEMPERATURE	-55°C to +71°C
WEIGHT	33 g (single sensor configuration)

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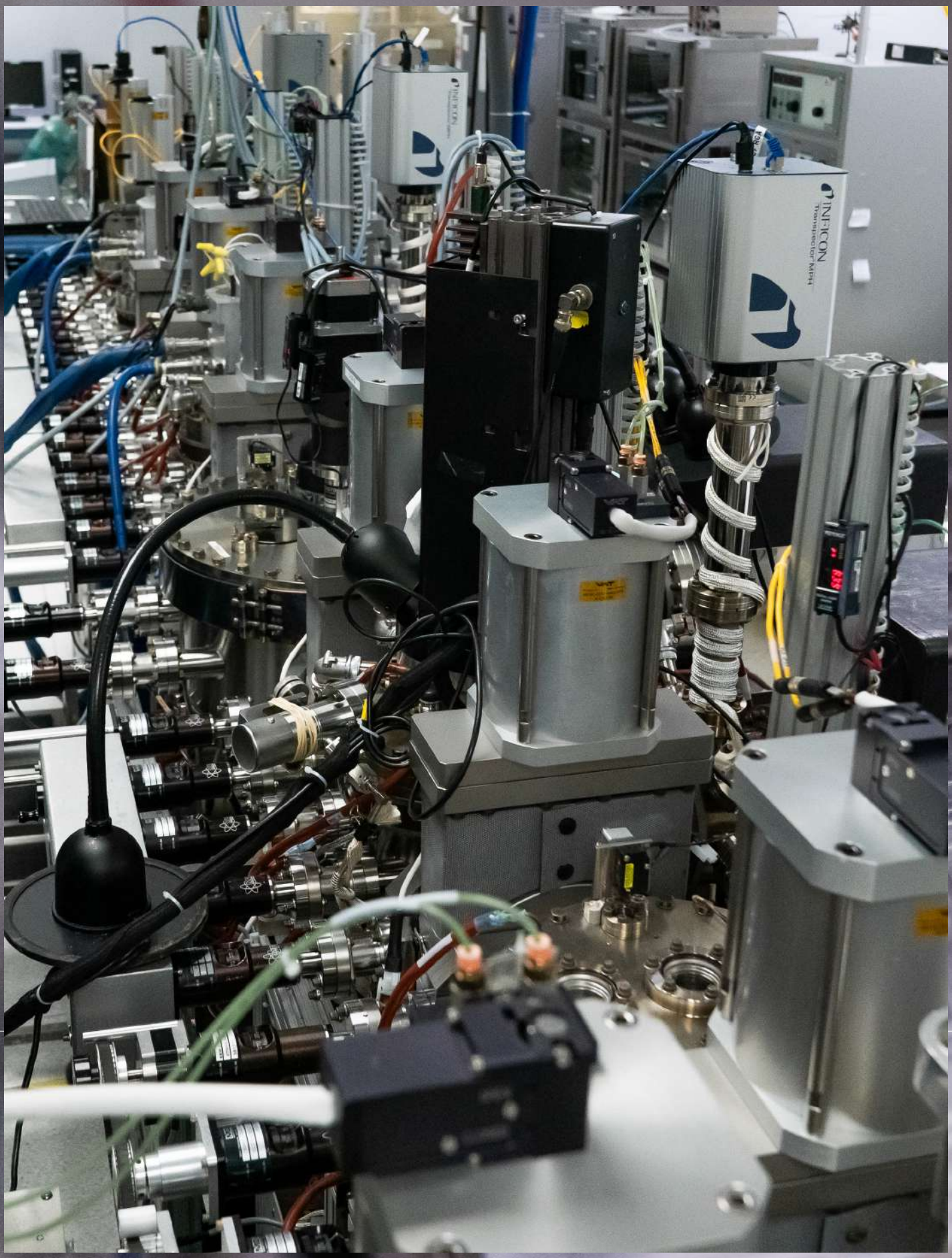
NOTE: Additional technical details are available upon request.

ORDER INFORMATION

ISIE19 Sensor Module
(1 sensor, 1 HVPS)
301696

ISIE19 Dual Sensor Module
(2 sensors, 1 HVPS)
302515


INFICON

A VISION FORWARD

WHAT COULD WE BUILD IF WE STOPPED ASKING WHAT'S AVAILABLE— AND STARTED ASKING WHAT'S POSSIBLE?

At Edge Vision Systems™, our cameras didn't start on a catalog page. They were born in response to challenges that couldn't afford compromise—built for elite military platforms, pilotage systems, and surveillance programs where seeing in the dark meant mission success.

Every system in the product line-up has been field-tested and refined under the most demanding conditions. But here's what matters even more: none of them started this way. Each one was imagined, iterated, and engineered through collaboration—with partners bold enough to ask for something that didn't yet exist.

Our 75,000+ square foot Silicon Valley lab houses a 200mm wafer fab, sensor and camera assembly, and image fusion capabilities. It's not just a lab—it's a launchpad. One that's fully operational and ready not just for production—but for possibility.

Let's build something that hasn't been built before.
Let's push beyond low light.
Let's create the next breakthrough—together.

EVS™

EDGE VISION SYSTEMS

EVS™

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