SWIR IP 카메라
PAs640NIP



LYNRED SNAKE-SW – Advanced SWIR Imaging for Mission-Critical Applications

High-Performance SWIR Technology for Defense, Surveillance & Aerospace

The LYNRED SNAKE-SW is a high-performance Short-Wavelength Infrared (SWIR) detector operating in the 900–1700 nm spectral range.

Designed for demanding applications, including tactical imaging, defense and security surveillance, aerospace and Low Earth Orbit (LEO) systems, and high-speed scientific spectroscopy.

Featuring 640 × 512 resolution, frame rates of up to 300 fps, and exceptionally low readout noise of less than 30 e^-, the SNAKE-SW delivers high-speed, high-sensitivity imaging performance.

Available in both integrated Thermoelectric Cooling (TEC) and compact, low-power TECless configurations, it offers excellent flexibility for a wide range of imaging systems.

Rugged Design for Demanding Tactical Environments

Engineered for reliable operation in challenging environments involving temperature variations, vibration, and mechanical shock.

Well suited for integration into defense equipment, tactical surveillance systems, UAVs, and airborne imaging platforms, subject to system-level environmental qualification.

The TECless configuration offers significant advantages in Size, Weight, and Power (SWaP), making it particularly suitable for compact surveillance devices, portable imaging systems, and unmanned aerial platforms.

APPLICATIONS

• Defense, Border Security & Advanced Surveillance

SWIR imaging technology enhances visibility and target observation in challenging atmospheric conditions, including haze, light fog, dust, and smoke, depending on atmospheric transmission and visibility conditions.
Supports long-range surveillance and detection of compatible near-infrared laser illuminators, markers, and identification signals during day and night operations.
Enables high-sensitivity imaging for defense, border security, and advanced surveillance applications.

SPECIFICATION

	PAs640NIP
SWIR Sensor Information	
Sensor	Lynred SNAKE_SW
Maker	Area InGaAs Non-TEC
Spectral Response	0.9 ~ 1.7㎛ (SWIR)
Pixel Pitch	15㎛
Focal Plane Array	640 x 512
Interfaces	
Pixel Colok / Protocol	RTSP
Image Data	Y.U.V(4:2:2)
Analog Video Output	NTSC for AF / H.264
Frame Rate	30fps
Functionality	
Image Acquisition Mode	Free running / External Trigger using +5V TTL
Image Correction	2-point correction(Gain, offset) / Bad pixel /FFC
Electrical Interface	
Input Voltage	DC12V or PoE
Power Consumption	<5.5W
Environmental Conditions	
Operation Temperature	-10°C ~ 40°C
Operation Relative Humidity	maximum 90% non-condensing
Storge Temperature	-40°C ~ 85°C
Storage Relative Humidity	maximum 90% non-condensing
Mechanical Interface	
Size (W x H x D)	63 x 63 x 70.7mm
Weight	345g (wothout Lens)
Lens mount	M42 or C-Mount
Power connector	6-pin threaded Hirose Mating connector part# HR10A-7R-6PB(73)

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