





CamSight® LP(+)

Low power infrared imaging camera (High sensitivity)

Key features

- Low Size, Weight And Power (SWAP)
- Fast time to image: 1,2 second
- Patented shutterless technology
- Low latency
- Designed and manufactured in France with French thermal sensors



Image taken with a F19mm CamSight® LP OEM

CamSight[®] LP is a low power Original Equipment Manufacturer (OEM) digital core camera produced by Bertin.

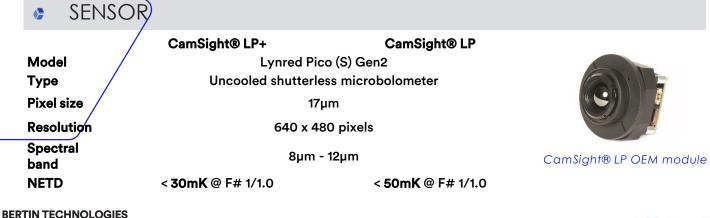
This camera can be integrated within complex optronic systems. CamSight® LP also exists in a Plug & Play version, dedicated to end-users.

Ultra-compact, CamSight[®] LP is very low-consuming (less than 1 Watt), to be implemented even in constrained environments.

The camera is equipped with the uncooled PICO LYNRED infrared sensor. Based on a shutterless technology, the camera does not require maintenance and calibration in operation.

Thanks to its design and high-performance, the CamSight® LP fulfills any surveillance applications and night and day infantry missions, even in harsh or constrained environments. It can also be integrated in autonomous vehicles (UAV, UGV, USV) or in sensors systems (UGS).

The camera is available in two different versions: CamSight® LP+ (NETD < 30mK @ F# 1/1.0) and CamSight® LP (NETD < 50mK @ F# 1/1.0).



BERTIN TECHNOLOGIES 10 Bis, Avenue Ampère 78180 Montigny le Bretonneux France

www.bertin-technologies.com







CamSight® LP(+)

PHYSICAL CHARACTERISTICS (without lens)

	OEM version	Casing version
Weight	60g	188g
Dimensions	46 x 46 x 29mm	60 x 60 x 65mm
IP Casing		IP67
INTERFACES		
Video Frequency	Parallel 14bits / SD-SDI 640x480 / Vision Video stream : 25Hz <i>Option : 9Hz on demand,</i>	
Communication	(>9Hz requires a license delivered l RS 232, 3.3VTTL	by the French government)
ELECTRICAL	CHARACTERISTICS	
Input voltage Consumption Time to image Connectors	OEM version 4,5 - 5. < 1 1.2sec (from Samtec MMCX7-J-P-GF-ST-TH1 for video; Molex 53398-0271 for power; Molex 53398-0371 for RS com	N off to on)
OPERATION & CONTROL		
Calibration	Shutterless (single factory calibrat	ion / no periodic control needed)
Camera Control	Gamma correction Algorithm selection CLHE / CLAH LUT Region of interest for CLHE Histogram equalization Sharpening algorithm Image polarity inversion Zoom moveable center Column Noise Correction Flattening Filter	E
Tools	SDK (MAVLINK) GUI (Companion)	
ENVIRONMENTAL CHARACTERISTICS		
Operating temp Storage temp Shock Humidity Environment	-40°C / +70°C -40°C / +85°C Pre-compliance to 5-95% noncondens CE, RoHS, REACH	

DATASHEET

BERTIN TECHNOLOGIES 10 Bis, Avenue Ampère 78180 Montigny le Bretonneux France

www.bertin-technologies.com







CamSight® LP(+)

CAMSIGHT® LP PHOTOS







Casing version with 19mm lens

OEM version

OEM version with 19mm lens

QUALIFIED LENSES



7,5mm & F/1.2 FoV: 91°x68° DRI (V) : 830/280/140 DRI (S) : 340/110/60 Size: \emptyset 25 x 19mm Weight: 25g



11mm & F/1.05 FoV: 57°x43° DRI (V) : 1270/430/210 DRI (S) : 520/170/90 Size: Ø 41 x 31mm Weight: 87g



19mm & F/1.1 FoV: 32°x23° DRI (V) : 2130/720/360 DRI (S) : 880/300/150 Size: Ø 29 x 18mm Weight: 20g



35mm & F/1.2 FoV: 18°x13° DRI (V) : 3410/1280/650 DRI (S) : 1540/530/260 Size: Ø 45 x 35mm Weight: 108g



60mm & F/1.25 FoV: 10°x7° DRI (V) : 5090/2080/1080 DRI (S) : 2460/880/440 Size: Ø 61 x 59mm Weight : 212g



FoV: 25°x19° DRI (V) : 2460/920/460 DRI (S) : 1070/380/190 Size: ∅ 35 x 29mm Weight: 57g

25mm & F/1.2





75mm & F/1.2 FoV: 8°x6° DRI (V) : 6180/2490/1320 DRI (S) : 3140/1070/560 Size: ∅ 68 x 82mm Weight: 265g

This list does not represent all compatible lenses. It is therefore possible to add lenses according to your needs.

DRIs were calculate with TRM4.

DRI (V) = DRI vehicle. DRI (S) = DRI soldier with NATO standard. Unity : meter. To calculate the overall weight of the CamSight LP with the lens, a mechanical interface (lens - core) must be added. Its weight depends on the lens and is about 20 grams.

