

Visionist *powered by SightBooster**

VISIONIST-SB product line

Real-time improved contrast technology camera system

Features:

- Improved contrast in fog, smoke and other poor visibility conditions
- Image compression (H.265)
- TCP/IP communication

Applications:

- Surveillance Systems
- Intelligent Traffic Systems
- Reconnaissance Systems
- Homeland security



VISIONIST-SB

* **SightBooster** is a real-time image enhancement technology developed by THEXOVISION Ltd. THEXOVISION Ltd. is the strategic partner of MEDIRLAB Co., Ltd.

Applications

Normal camera



VISIONIST-SB camera



Specifications

VISIONIST-SB Camera / VISIONIST-SB-MS Multispectral camera

THERMAL IMAGER (only VISIONIST-SB-MS)

SENSOR	Uncooled VOx FPA
RESOLUTION	640 pixel x 480 pixel
SPECTRAL RANGE	7 μ m ... 14 μ m
NETD	<40 mK
OPTICS	Ge + AR optics; f (mm) = 7.5 / 13 / 19 / 25 / 35 / 50 / 60 / 75 / 100 / 150 / 30 ... 150 optical zoom
PROTECTIVE WINDOW	Ge + AR
ZOOM (digital)	x2; x4
HFOV	72° / 45° / 32° / 25° / 18° / 12° / 10° / 8° / 6° / 4° / 4° ... 21° optical zoom
FRAME-RATE	25 Hz / 50 Hz
TEMPERATURE MEASUREMENT (opcional)	-40°C ... +800°C

DAY/NIGHT CAMERA

SENSOR	1/1.8" STARVIS CMOS Sensor
RESOLUTION	1920 pixel x 1080 pixel
SPECTRAL RANGE	380 nm ... 780 nm / 1000 nm
SENSIVITY (High Sensivity Mode: on)	ICR-Off mode: 0.009 lx (1/25s); 0.001 lx (1/4s)
SENSIVITY (High Sensivity Mode: on)	ICR-On mode: 0.00008 lx (1/25s); 0.000005 lx (1/4s)
SHUTTER SPEED	1 s ... 1/10000 s
OPTICS	f = 6.5 mm ... 162.5 mm; F1.6 ... F4.8
HFOV	58.1° ... 2.3°
FRAME-RATE	25 Hz / 50 Hz
AUTO ICR	Yes
WIDE DYNAMIC RANGE	Yes
IMAGE STABILIZATION	Yes
SLOW SHUTTER	Yes

EMBEDDED REAL-TIME IMAGE ENCHANCEMENT TECHNOLOGY

SIGHTBOOSTER powered by THEXOVISION	Yes
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COMMUNICATION

TCP/IP	Yes
IMAGE COMPRESSION	H.265
IMAGE PROCESSING	AUTOMATIC IMAGE-FUSION

OTHER DATA

EMC	according to EMC 2004/108
ENVIROMENTAL RESISTANCE	IP67
OPERATING TEMPERATURE RANGE	-30°C ... +60°C
POWER SUPPLY	10 VDC ... 30 VDC
ENCLOSURE MATERIAL	Aluminium
WEIGHT	cca. 3,0 kg

Specifications

VISIONIST-SB-SP Traffic Enforcement System

LASER RANGE FINDER (LRF)

SPEED MEASUREMENT TECHNOLOGY	Combinated lasertechnology
DISTANCE MEASUREMENT RANGE	15 m ... 200 m
MEASURING FREQUENCY	20 kHz
ACCURACY	±0.05 m / ±0.1 m
SPEED MEASUREMENT RANGE	±30 km/h ... ±240 km/h
SPEED MEASURING ACCURACY	±3 km/h
LASER BEAM DIVERGENCE	0.22°
WAVELENGTH	905 nm
EYE SAFETY CLASSIFICATION	CLASS 1 (IEC 60825-1:2014)
MAX. AMBIENT LIGHT	100 klux

DAY/NIGHT KAMERA

SENSOR	1/1.8" STARVIS CMOS Sensor
RESOLUTION	1920 pixel x 1080 pixel
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SHUTTER SPEED	1 s ... 1/10000 s
OPTICS	f = 6.5 mm ... 162.5 mm; F1.6 ... F4.8
HFOV	58.1° ... 2.3°
FRAME-RATE	25 Hz / 50 Hz
AUTO ICR	Yes
WIDE DYNAMIC RANGE	Yes
IMAGE STABILIZATION	Yes
SLOW SHUTTER	Yes

EMBEDDED REAL-TIME IMAGE ENCHANCEMENT TECHNOLOGY

SIGHTBOOSTER powered by THEXOVISION	Yes
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COMMUNICATION

TCP/IP	Yes
IMAGE COMPRESSION	H.265
IMAGE PROCESSING	Opcional: time, vehicle category and number plate stamp

OTHER DATA

EMC	according to EMC 2004/108
ENVIROMENTAL RESISTANCE	IP67
OPERATING TEMPERATURE RANGE	-30°C ... +60°C
POWER SUPPLY	10 VDC ... 30 VDC
ENCLOSURE MATERIAL	Aluminium
WEIGHT	cca. 3,0 kg