GUIDE

KnightIR MF Series

Multifunctional IR monitoring system

The MF series has been designed for advanced security and surveillance, with the capability of digital video networks transmission. It is compatible with the standard interfaces in the security industry to facilitate integration. Various lens options and PTZ platforms are available, allowing for a multitude of applications in the fields of security and surveillance.

Features and Benefits

- High-resolution thermal imager

- Rotary PTZ control

- Combined analog video & network digital video

- Compatibility with standard security interfaces

- Advanced video processing functions

- Excellent range performance

Applications

- Building and industrial safety monitoring
- Border security and surveillance
- Sea port, airport and train station monitoring
- Warehouse fire early warning systems

Specifications

Detector

Detector Material	UFPA microbolometer, Asi
Resolution	384 x 288, 25um
Spectral range	8μm ~ 14μm
NETD	≤80mk @30℃

Lens

		8mm	13mm	25mm	40mm	75mm	100mm	150mm
Focus		8mm	13mm	25mm	40mm	75mm	100mm	150mm
F#		0.8	1.0	1.0	1.0	1.0	1.1	1.0
FOV		61.9°×48.5°	40.5°×30.9°	21.7°×16.4°	13.7°×10.3°	7.3°×5.5°	5.5°×4.1°	3.7°×2.7°
Man 1.8m×0.5m	Detection	161m	261m	502m	803m	1505m	2007m	3011m
	Recognition	40m	65m	125m	201m	376m	502m	753m
Vehicle 2.3m×2.3m	Detection	442m	718m	1380m	2208m	4140m	5520m	8280m
	Recognition	110m	179m	345m	552m	1035m	1380m	2070m

Image

Video output	Analog video : PAL (25Hz) /NTSC (30Hz)；Digital video: H.264 or MPEG format
Digital Zoom	2 x , 4 x
Image Enhancement	DDE Image filtering and sharpening function
Brightness and Contrast	Auto/manual adjustment
Palettes	9 palettes: B&W; B&W inverse, Blue-Red, Ironbow, Rainbow, High Contrast, Hot Metal, Amber, Amber Inverted

Interface

Interface Type	Power input，BNC provides active sensor video output (merging thermal and visible), RJ45 for network connectivity provided on break-out cable, and RS485

Pan-tilt (optional)

Azimuth angle	0°～355°；7.5°/S	0°～360°；0.01°～30°/S
Pitching angle	-90°～+6°；6°/S	-90°～+90°；0.01°～15°/S

Power

Power input	AC24V (with PTZ), DC 12V (without PTZ)
Power consumption	AC24V/ 100W(with PTZ)；DC 12V/ 25W (without PTZ)

Environmental parameters

Operating temperature	-10°～+50°
Storage temperature	-20°～+60°
Humility	5%～95%，non-condensation
Encapsulation	IP66

GUIDE