



Cameras



Professional daylight
HD and analog cameras
Cooled and uncooled
termovision cameras



Cameras

daylight and HD cameras

Cameras

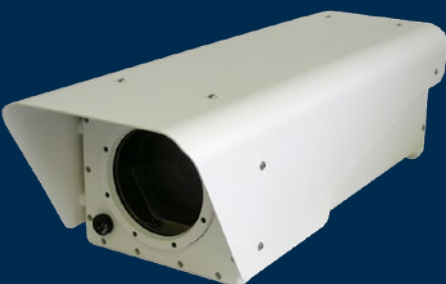
thermovisual cameras – uncooled



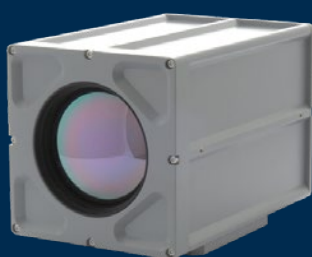
- SUMO D36
- SUMO HD30



- SUMO HD32
- SUMO HD32 LITE



- SUMO HD60
- SUMO HD60 LITE



- SUMO-U100 FIX
- SUMO-U135
- SUMO-U150
- SUMO-U150-LC



- SUMO-U180
- SUMO-U225

- optical and digital zoom
- digital video enhancement
- autofocus
- rugged design

- color cameras with 32x up to 60x optical zoom lens
- optimized for sensitivity in both day and night-time application
- autofocus
- highly rugged camera
- work in huge range of temperature and in every
- control interface: RS232
- power supply: 24 V DC (18 V – 32 V)
- env. protection: IP66
- operating temperature: -32°C až +55°C
- storage temperature: -40/35°C až +60°C
- complies with: EN 61000, MIL-STD-810, MIL-STD-461

THERMOVISUAL CAMERAS – UNCOOLED

Camera module	SUMO-U100 FIX	SUMO-U135	SUMO-U150	SUMO-U150 LC	SUMO-U180	SUMO-U225
Zoom	-	3x optical	6x optical	6x optical	3x optical	9x optical
Focal length	100 mm	45/135 mm	25 - 150 mm	25 - 150 mm	60/180 mm	25-225 mm
Field of view	6°12'	14°18' / 4°36'	wide: 25°18' x 18°58' tele: 4°6' x 3°4'	wide: 24°33' x 18°30' tele: 4°9' x 3°6'	10°30' / 3°30'	22°16' - 2°46'
Detection/recogn. of person	**2,8 km	**3,8 km	4 km	2,5 km	5 km	6 km
Operating temp.	-32 °C to +55 °C	-32 °C to +60 °C	-32 °C to +60 °C	-30 °C to +60 °C	-32 °C to +50 °C	-32 °C až +60 °C
Storage temp.	-40 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C	-35 °C to +60 °C	-40 °C to +60 °C	-40 °C to +60 °C
Weight	<6 kg	6 kg	<7 kg	6 kg	<12 kg	9kg
Dimensions (L x W x H)	270 x 170 x 170 mm	270 x 170 x 170 mm	270 x 170 x 170 mm	270 x 170 x 170 mm	387 x 222 x 219 mm	387 x 222 x 221 mm

** theoretical calculation

DAYLIGHT AND HD CAMERAS

Parameters	SUMO-D36	SUMO HD30	SUMO HD32	SUMO HD32 LITE	SUMO-HD60	SUMO-HD60 LITE
Image device	1/4" EXview HAD CCD	1/2,8" CMOS	1/2" CMOS	1/3" Progressive scan CMOS	1/2" CMOS	1/3" Progressive scan CMOS
Picture elements	cca 440 000 (765 x 574)	1920 x 1080	1280 x 720	1920 x 1080	1280 x 720	1920 x 1080
Minimum illumination	1,4 lux (colour mode 1/50 s) 0,01 lux (B/W mode 1/3 s)	1,4 lux (colour mode 1/50 s) 0,05 lux (B/W mode 1/3 s)	36.08 p (λ = 525 nm) (EMVA standard 1288)	0.2 lx (F1.2/AGC : MAX)	36.08 p (λ = 525 nm)	0.3 lx (F1.2/AGC : MAX)
S/N ratio	50 dB	50 dB	53 dB	50 dB	53 dB	50 dB
Video output signal	1,0V p-p at 75 ohm	HD-SDI	HD-SDI	HD-SDI	HD-SDI	HD-SDI
Focal length	3,4 – 122,4 mm	4,3 – 129 mm	15,6 – 500 mm	12,5 – 400 mm	16,7 – 1000 mm	16,7 – 1000 mm
Angle of view	wide: 57° 48 tele: 1°42'	wide: 63°42' tele: 2°18	wide: 24°41' x 14°04' tele: 0°49' x 0°27'	wide: 23°4' x 13°8' tele: 0°45' x 0°26'	wide: 22°35' x 13°6' tele: 0°24' x 0°14'	wide: 15°10' x 8°45' tele: 0°16' x 0°9'
Angle of view with extender	-	-	-	-	wide: 11°30' x 6°32' tele: 0°12' x 0°7'	wide: 7°35' x 4°23' tele: 0°8' x 0°5'
Zoom	36x optical, 12x digital	30x optical, 12x digital	32x optical	32x optical	60x optical, extender - 2x	60x optical, extender - 2x
Operating temperature	-32 °C to +55 °C	-32 °C to +55 °C	-32 °C to +55 °C	-32 °C to +55 °C	-32 °C to +55 °C	-32 °C to +55 °C
Dimension (LxWxH) mm	262 x 108 x 114 mm	262 x 108 x 114 x mm	527 x 198 x 184 mm	520 x 198 x 184 mm	700 x 249 x 204 mm	700 x 249 x 204 mm
Weight	2,6 kg	2,7 kg	10 kg	10 kg	16 kg	17 kg

- sensor: VOx Microbolometer
- resolution: 640 x 512 PAL (640 x 480 NTSC)
- pixels pitch: 17 μm
- spectral sensitivity: 8 – 12 μm
- sensitivity: <50 mK at f/1,0
- digital zoom: 2x, 4x, 8x
- control interface: RS232
- power supply: 24 V DC (18 V – 32 V)
- env. protection: IP66
- complies with: EN 61000, MIL-STD-810, MIL-STD-461



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