ULISSE COMPACT THERMAL
OUTDOOR PTZ CAMERA DUAL VISION, DAY/NIGHT AND THERMAL, FOR MONITORING IN TOTAL DARKNESS

IP66 PROTECTION	TYPE 4X PROTECTION	THERMAL	WIPER	INTEGRATED CAM

MAIN FEATURES

Dual independent video output

Complete control via RS485 of both cameras

Thermal camera:
- Sensor: Uncooled microbolometer (VOx)
- Lenses: 35mm or 25mm
- Resolution 336x256 or 640x512

Day/Night camera 36x or 28x
- True Progressive Scan (only 36x)
- High resolution: up to 550 TV Lines
- Advanced image stabilizer (Stable Zoom Mode)
- Day/Night (Auto ICR: automatic removal of IR filter)
- Dynamic video masking of different areas

Variable speed: 0.1°-200°/s Pan/Tilt

Horizontal continuous rotation, vertical -90°/+90°

Position accuracy: 0.05°

Up to 250 Presets

Operating temperature: -40°C / +60°C (-40°F / +140°F)

Integrated wiper

Power supply: 230Vac, 24Vac or 120Vac

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DESCRIPTION

The PTZ ULISSE COMPACT THERMAL camera offers an exceptional integrated solution, for effective monitoring even in complete darkness or in extreme environmental conditions, fog, rain, smoke.

In fact, the unit incorporates an aligned visual camera and thermal camera, with independent management of the two video flows.

The Day/Night camera is able to clearly identify the target in normal light conditions, while the thermal vision detects people and events, in complete darkness, smoke or thick fog.

Constant and reliable non-stop monitoring of outdoor areas and infallible system for detecting events and presences.

The accurate top-mount construction ensures vision beyond the horizon and the continuous rotation on the horizontal axis, combining high speed to absolute tracking accuracy, both in manual mode and in patrol mode.

TECHNICAL DATA

GENERAL

Constructed from aluminium and tecnopolymer

Epoxypolyester powder painting, RAL9002 colour

Germanium window for thermal camera

Easy installation thanks to the self-centring connector

Zero backlash

Quick configuration and setup

Dynamic positioning control system

16-characters string for zone and preset titling

Functions: Autopan, Preset, Patrol, Tour (maximum 3), Autoflip

MECHANICAL

Cable glands: 2xM16, 2xM12

Horizontal rotation: continuous

Vertical rotation: -90° to +90°

Horizontal speed (variable): from 0.1° up to 200°/s

Tilt speed (variable): from 0.1° up to 200°/s

Accuracy of preset positions: 0.05°

Unit weight: 12.5kg (28lb)

ELECTRICAL

Supply voltage/Current consumption:
- 230Vac, 0.4A, 50/60Hz
- 24Vac, 4A, 50/60Hz
- 120Vac, 0.8A, 50/60Hz

Power consumption
- 40W: P&T static, heating switched off
- 60W: P&T in motion, heating switched off
- 125W: peak at start-up, heating switched on

Cables input section: from 1.5mm² (16AWG) up to 0.75mm² (19AWG)

Cables signal section: from 1.5mm² (16AWG) up to 0.14mm² (30AWG)

Video line: coaxial cable (1Vpp, 75Ohm)

I/O alarm card
- Alarm inputs: 6
- Relay outputs: 2 (2A, 30Vac/60Vdc max)

COMMUNICATIONS

Configuration through OSD

Half-duplex serial RS485 interface, full-duplex RS422 and daisy-chain architecture

Firmware updating from console in remote mode (only VIDEOTEC MACRO and PELCO D protocols)

Up to 1023 units, addressable by means of dip-switches

PROTOCOLS

AMERICAN DYNAMICS, ERNITEC, PANASONIC, PELCO D, VIDEOTEC MACRO

Maximum number of presets for protocol
- AMERICAN DYNAMICS: 95*
- ERNITEC: 250
- PANASONIC: 250
- PELCO D: 99*
- VIDEOTEC MACRO: 250

*250, from OSD only (On Screen Display)

ENVIRONMENT

Indoor/Outdoor

Operating temperature (with heater): from -40°C (-40°F) up to +60°C (140°F)

Relative Humidity 10-95% (no condensation)

Wind resistance
- Operational: up to 160km/h
- Stationary: up to 210km/h

Surge immunity: up to 2kV line to line, up to 4kV line to earth (Class 4)

CERTIFICATIONS

Electrical safety (CE): EN60950-1, IEC60950-1

Electromagnetic compatibility (CE): EN610000-6-4, EN50130-4, EN55022 (Class A), EN61000-6-4, FCC Part 15 (Class A)

Outdoor installation (CE): EN60950-22, IEC60950-22

IP protection degree: EN60529 (IP66)

UL certification: cULus Listed (TYPE 4X)

EAC certification

ACCESSORIES

UPTJBUL	Junction weatherproof box for cables connexion (according UL norm)
WASPT0V5L5M00	Water tank 5l (1 gal), pump with delivery up to 5m (16ft), IN 230Vac-24Vac-120Vac
WASPT0V23L5M00	Water tank 23l (6 gal), pump with delivery up to 5m (16ft), IN 230Vac-24Vac-120Vac
WASPT0V23L11M00	Water tank 23l (6 gal), pump with delivery up to 11m (36ft) with water floating, IN 230Vac-24Vac-120Vac
WASPT1V23L30M00	Water tank 23l (6 gal), pump with delivery up to 30m (98ft) with water floating, IN 230Vac
WASPT3V23L30M00	Water tank 23l (6 gal), pump with delivery up to 30m (98ft) with water floating, IN 120Vac

BRACKETS AND ADAPTORS

UPTWBA	Wall bracket with internal cable channel
UPTWBTAB	Parapet bracket with internal cable channel
UCCMA	Ceiling bracket for upside down mounting and working of ULISSE COMPACT

PACKAGE

Model Number	Weight	Dimensions (WxHxL)	Master carton
UCT1QAWA000A	16kg (35lb)	66x33x57cm (26x13x22in)	-

ULISSE COMPACT THERMAL - CONFIGURATION OPTIONS

	Voltage		Day/Night camera		Thermal camera				Video Output		Frequency
UCT	**1** 230Vac	**P**	Day/Night camera 36x optical zoom lens, PAL	**A**	Thermal camera 35mm - 336x256	**W**	With integrated wiper	**A**	**0** Analog control	**00A**	**-** 7.5-8.3Hz
	2 24Vac	**Q**	Day/Night camera 28x optical zoom lens, PAL	**B**	Thermal camera 25mm - 336x256						**H** 25-30Hz
	3 120Vac	**N**	Day/Night camera 36x optical zoom lens, NTSC	**D**	Thermal camera 35mm - 640x512						
		M	Day/Night camera 28x optical zoom lens, NTSC	**E**	Thermal camera 25mm - 640x512						

ANALOG CAMERAS (DAY/NIGHT)

	Day/Night 36x		Day/Night 28x High sensitivity	
	PAL	NTSC	PAL	NTSC
Optical zoom	36x		28x	
Wide Dynamic Range (Fix/Auto)	✓		–	
True progressive SCAN	✓		–	
Digital image stabilisation	✓		✓	
White balance	Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto)		Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto)	
High horizontal resolution	Up to 550 TV Lines		Up to 550 TV Lines	
Day/Night (Auto ICR)	✓		✓	
Image Sensor	1/4" EXView HAD CCD		1/4" Super HAD CCD II	
Number of effective Pixels	~ 440000 pixel	~ 380000 pixel	~ 440000 pixel	~ 380000 pixel
Min. Color illumination (IR-Cut Filter = OFF)	1.4Lux / 1/50s 0.1 Lux / 1/3s	1.4Lux / 1/60s 0.1 Lux / 1/4s	0.25Lux / 1/50s 0.16 Lux / 1/3s	0.25Lux / 1/60s 0.16 Lux / 1/4s
Min. B/W illumination	0.01 Lux / 1/3s	0.01 Lux / 1/4s	0.0015 Lux / 1/3s	0.0015 Lux / 1/4s
"Shutter Time" automatic increase to improve the night surveillance	✓		✓	
S/N ratio	More than 50dB		More than 50dB	
AE control	Automatic, Shutter priority, Diaphragm priority, Brightness priority and Manual		Automatic, Shutter priority, Diaphragm priority, Brightness priority and Manual	
Back light compensation	On/Off		On/Off	
Spherical masking (3D) of Privacy zones with automatic upgrade	✓		✓	
Privacy Zone Masking	On/Off (24 positions)		On/Off (24 positions)	
Maximum number of masking blocks to be displayed	8		8	
Resolution of masking blocks	160x120 HxV		160x120 HxV	
Masking	Up to 15 different masking types: 14 colour types or mosaic		Up to 15 different masking types: 14 colour types or mosaic	
Focusing system	Auto (Sensitivity: Normal, Low), Trigger PTZ, Manual		Auto (Sensitivity: Normal, Low), Trigger PTZ, Manual	
"Smart" lens control	Automatic Lens Reset		Automatic Lens Reset	
High Zoom and Wide Horizontal Field of View Capability	✓		✓	
Optical zoom	36x, f=3.4 (wide) to 122.4mm (tele) / F1.6 to F4.5		28x, f=3.5 (wide) to 98mm (tele) / F1.35 to F3.7	
Digital Zoom	12x (432x with optical zoom)		12x (336x with optical zoom)	
Angle of view (A)	57.8 degrees (wide) to 1.7 degrees (tele)		55.8 degrees (wide) to 2.1 degrees (tele)	
Minimum object distance	320mm (12.6in) (wide) to 1500mm (59.1in) (tele)		10mm (0.4in) (wide) to 1500mm (59.1in) (tele)	
Electronic Iris Speed	1/1 ÷ 1/10000s		1/1 ÷ 1/10000s	

THERMAL CAMERAS (RESOLUTION 336X256)				
	Lens 25mm		**Lens 35mm**	
	PAL	NTSC	PAL	NTSC
Image sensor	Uncooled VOx microbolometer		Uncooled VOx microbolometer	
Resolution	320x256	320x240	320x256	320x240
Pixel dimensions	17μm		17μm	
Spectral response - long wave infrared (LWIR)	from 7.5μm to 13.5μm		from 7.5μm to 13.5μm	
Internal shutter (only for sensor compensation)	Video stop < 1sec.		Video stop < 1sec.	
Digital Detail Enhancement (DDE)	✓		✓	
Digital Zoom	2x, 4x		2x, 4x	
Image updating frequency	8.3fps	7.5fps	8.3fps	7.5fps
Image updating high frequency	25fps	30fps	25fps	30fps
Scene range (High Gain)	-40°C ÷ +160°C (-40°F ÷ +320°F)		-40°C ÷ +160°C (-40°F ÷ +320°F)	
Scene range (Low Gain)	-40°C ÷ +550°C (-40°F ÷ +1022°F)		-40°C ÷ +550°C (-40°F ÷ +1022°F)	
Horizontal field of view	13°		9,3°	
Vertical field of view	10°		7,1°	
F-number	F/1.1		F/1.2	
Thermal sensitivity (NEdT)	< 50mK to f/1.0		< 50mK to f/1.0	
Person (detection / recognition / identification)	930m / 230m / 116m (3051ft / 754ft / 380ft)		1280m / 320m / 160m (4199ft / 1049ft / 525ft)	
Auto (detection / recognition / identification)	2800m / 710m / 360m (9186ft / 2329ft / 1181ft)		3850m / 950m / 295m (12631ft / 3116ft / 967ft)	

VIDEO SECURITY PRODUCTS

THERMAL CAMERAS (RESOLUTION 640X512)

	Lens 25mm		Lens 35mm	
	PAL	NTSC	PAL	NTSC
Image sensor	Uncooled VOx microbolometer		Uncooled VOx microbolometer	
Resolution	640x512	640x480	640x512	640x480
Pixel dimensions	17μm		17μm	
Spectral response - long wave infrared (LWIR)	from 7.5μm to 13.5μm		from 7.5μm to 13.5μm	
Internal shutter (only for sensor compensation)	Video stop < 1sec.		Video stop < 1sec.	
Digital Detail Enhancement (DDE)	✓		✓	
Digital Zoom	2x, 4x, 8x		2x, 4x, 8x	
Image updating frequency	8.3fps	7.5fps	8.3fps	7.5fps
Image updating high frequency	25fps	30fps	25fps	30fps
Scene range (High Gain)	-40°C ÷ +160°C (-40°F ÷ +320°F)		-40°C ÷ +160°C (-40°F ÷ +320°F)	
Scene range (Low Gain)	-40°C ÷ +550°C (-40°F ÷ +1022°F)		-40°C ÷ +550°C (-40°F ÷ +1022°F)	
Horizontal field of view	25°		18°	
Vertical field of view	20°		14°	
F-number	F/1.1		F/1.2	
Thermal sensitivity (NEdT)	< 50mK to f/1.0		< 50mK to f/1.0	
Person (detection / recognition / identification)	820m / 210m / 104m (2690 / 689 / 341ft)		1140m / 280m / 142m (3740ft / 919ft / 466ft)	
Auto (detection / recognition / identification)	2200m / 580m / 290m (7218ft / 1903ft / 951ft)		3000m / 800m / 200m (9843ft / 2625ft / 656ft)	

TECHNICAL DRAWINGS
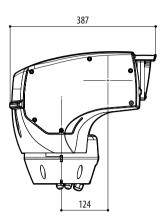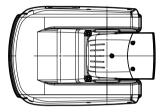
Sizes in millimeters.

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