

ULISSE

OUTDOOR PTZ CAMERA AND UNIT FOR HIGHEST PRECISION DAY/NIGHT MONITORING



ULISSE + 2 UPTIRN



ULISSE FOR THERMAL CAMERAS

DESCRIPTION

ULISSE PTZ camera unit ensures maximum video surveillance coverage in all outdoor environments, even the most difficult. The accurate top-mount configuration guarantees long-range vision and continuous horizontal axis rotation, combining high speed with absolute tracking accuracy, both in manual mode and in patrol mode.

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This model can contain cameras with compact lenses.

The versions with the integrated camera ensure excellent image quality, even in poorly lit environments.

To ensure detailed images even during the night hours, versions are available with LED illuminators, with infrared light or white light.

The PTZ unit can be equipped with a wiper for removing rain and dust from the front glass; there is a wide selection of jerry cans with washer pump, different capacities and heads.

The optimal operation is ensured in very hot environments up to 60°C or in very cold environments up to -30°, thanks to optional enhanced heating.

Models are available for vision with a thermal camera.

MAIN FEATURES

Housing for compact lenses

Variable speed: from 0.02°/s up to 100°/s horizontal - from 0.02°/s up to 40°/s vertical

Variable speed with UPTIRN LED illuminators: from 0.02°/s up to 40°/s horizontal - from 0.02°/s up to 30°/s vertical

Horizontal continuous rotation, vertical from -40° up to +90°

Autopan, Preset, Patrol

Position accuracy: 0.02°

Up to 250 Presets

Operating temperature: from -20°C (-4°F) up to +60°C (140°F)

Power supply: 230Vac, 24Vac or 120Vac

Options:

- Day/night camera 36x
- Prearrangement for mounting of two UPTIRN LED illuminators
- Germanium window for thermal cameras
- Cold pack for low temperature down to -30°C (-22°F)
- Wiper

TECHNICAL DATA

GENERAL

Top mount (OTT)
Transmission through toothed belt
Slip-ring
Electronic limit switches
Simplified installation thanks to the connector and easy replacement on-site
Zero backlash
Configuration of telemetry protocol parameters through dip-switch for RS-485
Zoom lens controller: polarity inversion and common wire
Functions: Autopan, Preset, Patrol
Maximum number of presets for protocol: 250 (VIDEOTEC MACRO)
15 characters string for Area and Preset titling
Configuration through OSM

MECHANICAL

Constructed from aluminium and tecnopolymer
Epoxy polyester powder painting, RAL9002 colour
Horizontal rotation: 360°, continuous rotation
Vertical rotation: from -40° up to +90°
Horizontal speed (variable): from 0.02°/s up to 100°/s (from 0.02°/s up to 40°/s, with LED illuminators)
Tilt speed (variable): from 0.02°/s up to 40°/s (from 0.02°/s up to 30°/s, with LED illuminators)
Accuracy of preset positions: 0.02°
Internal usable area: See drawings
Cable glands: 3xM16
Unit weight: 16.3kg (36lb) (16.8kg (37lb), with LED illuminators bracket)

HOUSING'S WINDOW

Glass window extra clear

- Dimensions (WxH): 118x75mm (4.6x2.7in)

Germanium window (for thermal cameras)

- Usable diameter: 55mm (2.1in)
- Thick: 2mm (0.08in)
- External treatment: antiscratch (Hard Carbon Coating - DLC), antireflection
- Internal treatment: antireflection
- Spectral range: from 7.5µm up to 14µm
- Medium transmittance (from 7.5µm up to 11.5µm): 90%
- Medium transmittance (from 11.5µm up to 14µm): 77%

ELECTRICAL

Supply voltage/Current consumption:

- 230Vac, 0.4A, 50/60Hz
- 24Vac, 4A (8A with LED illuminators), 50/60Hz
- 120Vac, 0.8A, 50/60Hz

Power consumption:

- 100W (150-190W max with LED illuminators in 24Vac)
- 24W, P&T static, heating switched off

Version with integrated camera:

- 26.5W, P&T static, heating switched off

Cables input section:

- 0.75mm² (18AWG), 120Vac or 230Vac
- 1.5mm² (16AWG), 24Vac

Cables signal section: from 0.14mm² (26AWG) up to 0.5mm² (20AWG)

Housing standard heater: 24Vac, 20W max

4 alarm inputs: from 10Vdc up to 35Vdc (2 alarm inputs, with LED illuminators)

2 dry contacts: 50Vdc max or 30Vac @ 1A (1 dry contact, with LED illuminators)

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

Camera power supply: 12Vdc (800mA)

Power supply to the lens: from 6Vdc up to 15Vdc (200mA max)

SERIAL COMMUNICATIONS

RS-232 interface for firmware update

2-ports RS-485 for daisy chain configuration

Addressable through dip-switch up 255 units

Configuration of telemetry protocol parameters through dip-switch

Protocols supported: AMERICAN DYNAMICS, PANASONIC, PELCO D, VIDEOTEC MACRO, VISTA
AMERICAN DYNAMICS, PANASONIC, PELCO, VISTA are registered trademarks.

The product may be interfaced with devices not manufactured by VIDEOTEC. It is possible that the interface protocols have changed or are in a different configuration from earlier tested units by VIDEOTEC. VIDEOTEC recommends a test prior to installation. VIDEOTEC will not be liable for any installation costs or lost revenues in the event a compatibility problem will occur.

ENVIRONMENT

For installation indoors and outdoors

Operating temperature

- With heater: from -20°C (-4°F) up to +60°C (140°F)
- With reinforced heater: from -30°C (-22°F) up to +60°C (140°F)

Wind resistance (without LED illuminators):

- 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): EN50130-4, EN55022 (Class A), EN610000-6-3, FCC Part 15 (Class B)

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

Photobiological safety (CE): EN62471 (LED illuminators)

IP protection degree (EN60529):

- IP66

Salty fog resistance: EN50130-5, EN60068-2-52

UL certification: cULus Listed (TYPE 4X) (not for thermal cameras version)

EAC certification

ACCESSORIES

UPTIRN108A00	LED illuminator for ULISSE, 10°, 850nm, 24Vac - 12/24Vdc
UPTIRN308A00	LED illuminator for ULISSE, 30°, 850nm, 24Vac - 12/24Vdc
UPTIRN608A00	LED illuminator for ULISSE, 60°, 850nm, 24Vac - 12/24Vdc
UPTIRN109A00	LED illuminator for ULISSE, 10°, 940nm, 24Vac - 12/24Vdc
UPTIRN309A00	LED illuminator for ULISSE, 30°, 940nm, 24Vac - 12/24Vdc
UPTIRN10WA00	LED illuminator for ULISSE, 10°, white light, 24Vac - 12/24Vdc
UPTIRN30WA00	LED illuminator for ULISSE, 30°, white light, 24Vac - 12/24Vdc
UPTIRN60WA00	LED illuminator for ULISSE, 60°, white light, 24Vac - 12/24Vdc
UPTIRPS230N	External power supply for ULISSE series, prearranged for two LED illuminators, and control to synchronize IR illuminators with camera Day/Night switching, IN 230Vac, in weatherproof box. Twilight sensor included.
UPTIRPS100N	External power supply for ULISSE series, prearranged for two LED illuminators, and control to synchronize IR illuminators with camera Day/Night switching, IN 100Vac, in weatherproof box
UPTIRPS120UL	External power supply for ULISSE series, prearranged for two LED illuminators, and control to synchronize IR illuminators with camera Day/Night switching, IN 120Vac, in weatherproof box. Twilight sensor included.

UPTHT1	Cold pack for low temperature 24Vac, 30W
UPTHT2	Reinforced heater for block camera 24Vac, 30W
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
WASNX1V10L20M00	Tank 10l with integrated manual pump controlled by solenoid valve, delivery head up to 20m (66ft) max, IN 230Vac
WASNX2V10L20M00	Tank 10l with integrated manual pump controlled by solenoid valve, delivery head up to 20m (66ft) max, IN 24Vac
WASNX3V10L20M00	Tank 10l with integrated manual pump controlled by solenoid valve, delivery head up to 20m (66ft) max, IN 120Vac

RELATED PRODUCTS

SM82A	Video matrix 8 inputs and 2 outputs
SM164B	Video matrix 16 inputs and 4 outputs
SM328B	Matrix 32 inputs and 8 outputs
DCJ	Keyboard for video and telemetry control
DCZ	Universal control keyboard for PC applications

BRACKETS AND ADAPTORS

UPTWBA	Wall bracket with internal cable channel
UPTWB TAB	Parapet bracket with internal cable channel
PTCC1	Pole mount adaptor
WCWGC	Corner mount adaptor

PACKAGE

Model Number	Weight	Dimensions (WxHxL)	Master carton
UPT1SVSA000E	19.5kg (43lb)	66x33x57cm (26x13x22in)	-
UPT2SVKA000E	20kg (44lb)	66x33x57cm (26x13x22in)	-
UPT1SVGA000E	19.5kg (43lb)	66x33x57cm (26x13x22in)	-

ANALOGUE CAMERAS (DAY/NIGHT)		
	Day/Night 36x	
	PAL	NTSC
Optical zoom	36x	
Wide Dynamic Range (ON, OFF, Auto)	✓	
True progressive SCAN	✓	
Digital image stabilisation	✓	
White balance	Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto), Manual	
High horizontal resolution	Up to 550 TV Lines	
Day/Night (Auto ICR)	✓	
Image Sensor	1/4" EXView HAD CCD	
Number of effective Pixels	~ 440000 pixel	~ 380000 pixel
Min. Lighting Colour (IR-Cut Filter = OFF) (Interlace Mode)	1.4Lux / 1/50s 0.1 Lux / 1/3s	1.4Lux / 1/60s 0.1 Lux / 1/4s
Min. Lighting B/W (Interlace Mode)	0.01 Lux / 1/3s	0.01 Lux / 1/4s
"Shutter Time" automatic increase to improve the night surveillance	✓	
S/N ratio	More than 50dB	
AE control	Automatic, Shutter priority, Diaphragm priority, Brightness priority and Manual	
Back light compensation	On/Off	
Spherical masking (3D) of Privacy zones with automatic upgrade	✓	
Privacy Zone Masking	On/Off (24 positions)	
Maximum number of masking blocks to be displayed	8	
Resolution of masking blocks	160x120 HxV	
Masking	Up to 15 different masking types: 14 colour types or mosaic	
Focusing system	Auto (Sensitivity: Normal, Low), Trigger PTZ, Manual	
"Smart" lens control	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	
Digital Zoom	12x (432x with optical zoom)	
Horizontal field of view	57.8 degrees (wide) to 1.7 degrees (tele)	
Minimum object distance	10mm (0.4in) (wide) to 1500mm (59.1in) (tele)	
Shutter speed	1/1 ÷ 1/10000s	

DISTANCES IN NIGHT MODE WITH DAY/NIGHT CAMERA 36X			
Application	Configuration ¹	Night Mode + ASS ²	HFOV ³ (ASS)
Far away subjects, perimeter control	UPTIRN108A00 + UPTIRN108A00	120m (393ft)	20m (66ft)
Nearby areas, parking lots, access control	UPTIRN308A00 + UPTIRN308A00	60m (197ft)	32m (105ft)
	UPTIRN608A00 + UPTIRN608A00	40m (131ft)	46m (151ft)
Mixed solutions	UPTIRN108A00 + UPTIRN308A00	105m (344ft)	18m (59.1ft)
	UPTIRN308A00 + UPTIRN608A00	50m (164ft)	26m (85ft)

¹ To ensure the performances, the two illuminators must be correctly aligned.

² ASS: auto slow shutter mode set.

³ HFOV - Horizontal Field of View: width of the illuminated area at the maximum reachable distance.

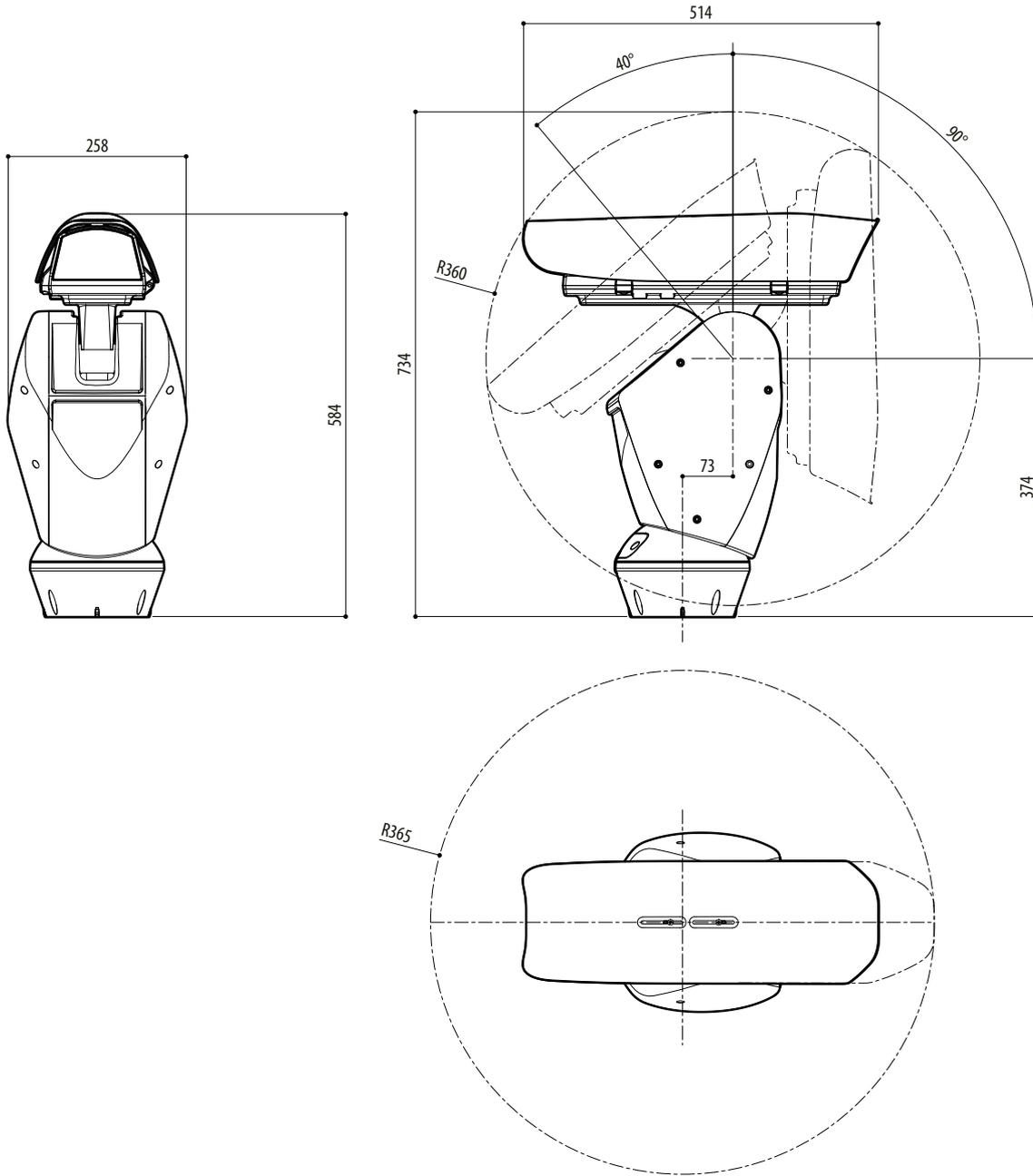
The distances are in meters and refer to the displaying of images at night time which have enough quality to identify and classify an abnormal situation and the type of subject within the range of the pan & tilt unit. The distances also depend on the reflection coefficient of the surfaces present on the illuminated scene.

ULISSE - CONFIGURATION OPTIONS								
	Voltage	Day/Night camera		Options		Video Output		
UPT	1 230Vac	S Without camera	V	S Without accessories	A	O Analog control		OOE
	2 24Vac	P Day/Night camera 36x optical zoom lens, PAL		W With wiper				
	3 120Vac	N Day/Night camera 36x optical zoom lens, NTSC		K With brackets for UPTIRN (only 24Vac, illuminators not included)				
				J With wiper and brackets for UPTIRN (only 24Vac, illuminators not included)				
				G With germanium front window for thermal camera applications				

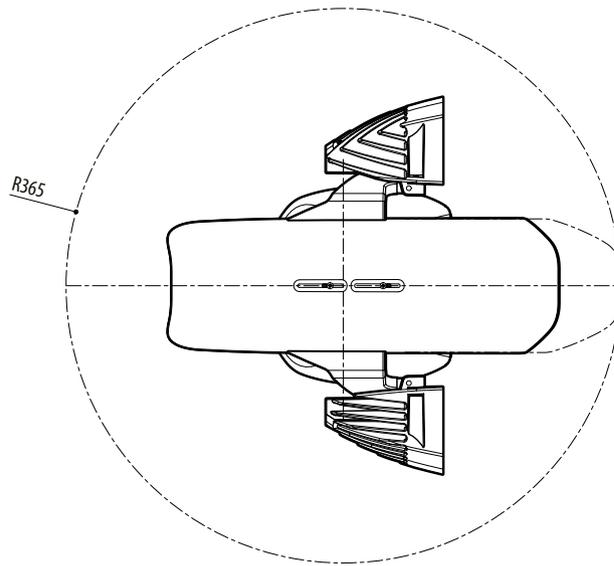
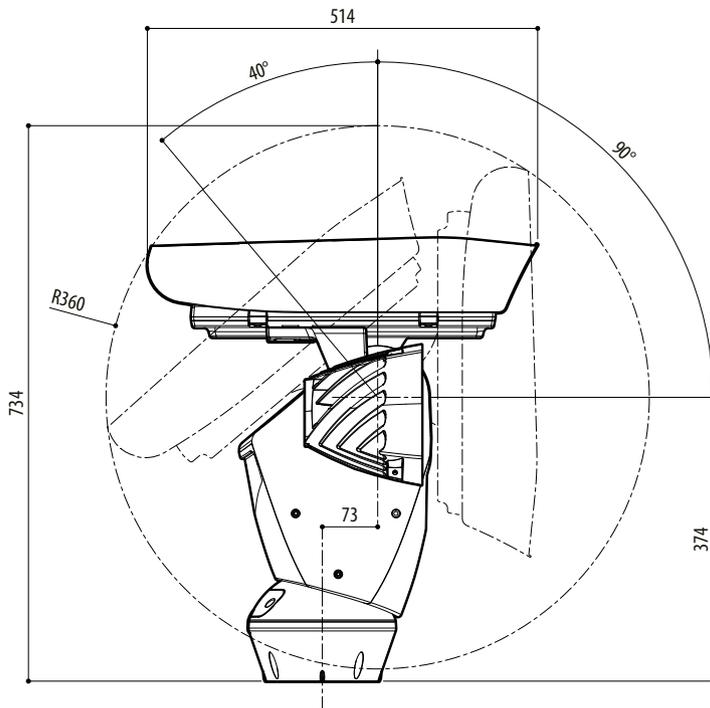
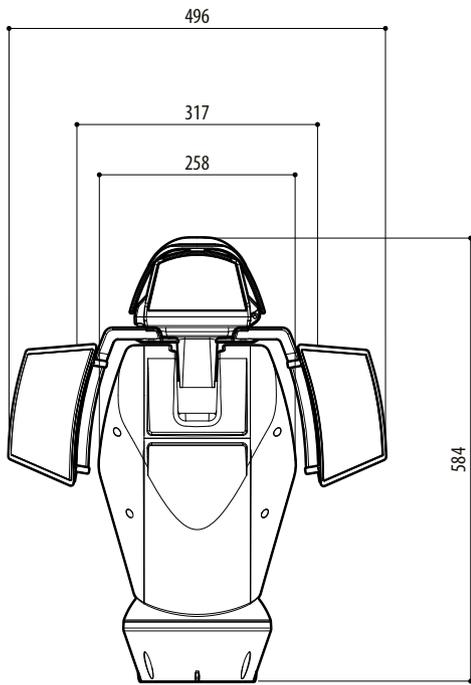
Not all combinations are possible.

TECHNICAL DRAWINGS

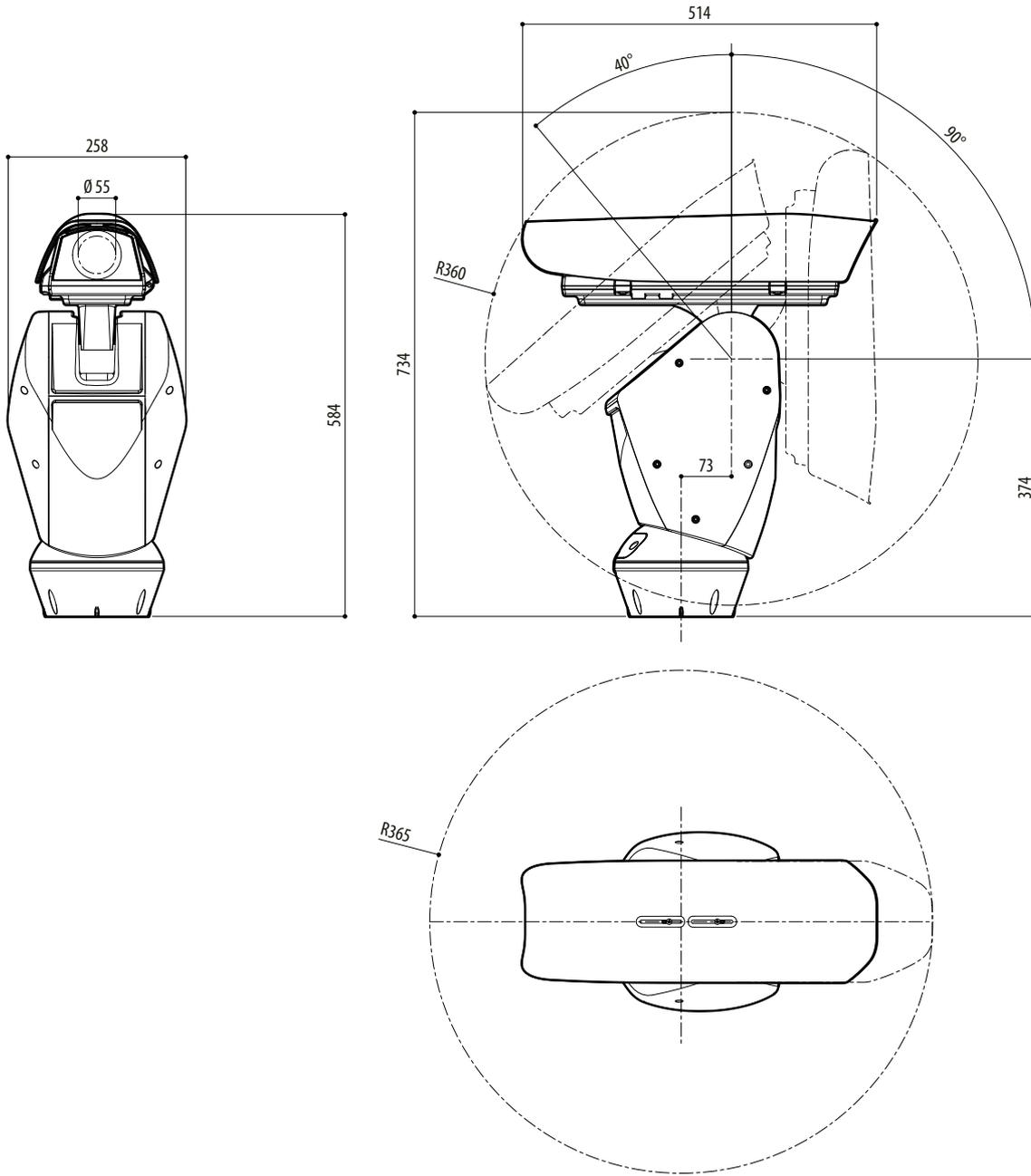
The dimensions of the drawings are in millimetres.



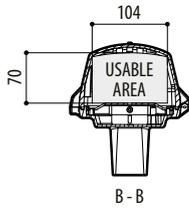
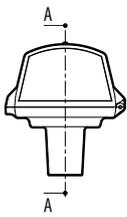
ULISSE



ULISSE, VERSION PRE-ARRANGED FOR THE INSTALLATION OF TWO LED ILLUMINATORS

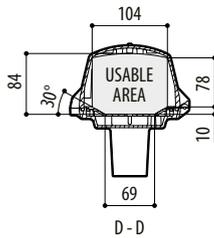
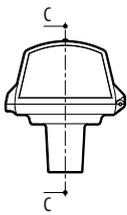
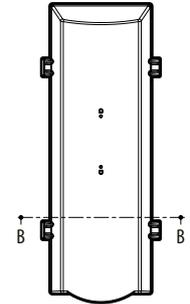
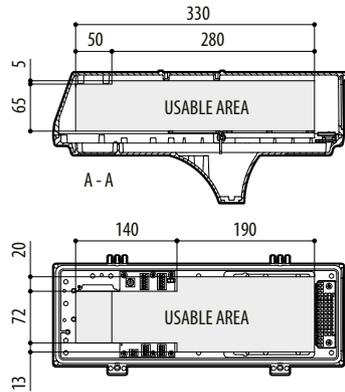


ULISSE, VERSION FOR THERMAL CAMERAS



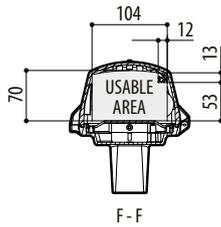
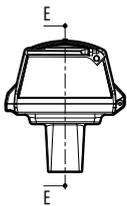
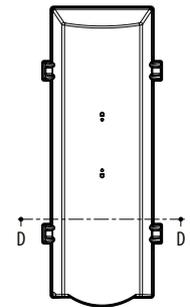
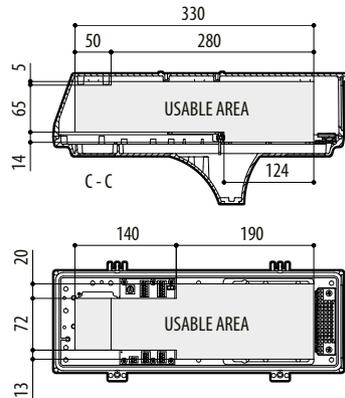
SLIDE IN STANDARD POSITION

SLIDE IN STANDARD POSITION,
REINFORCED HEATER



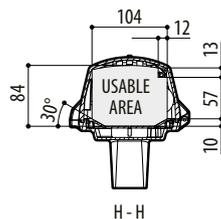
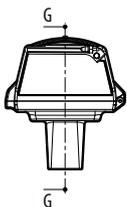
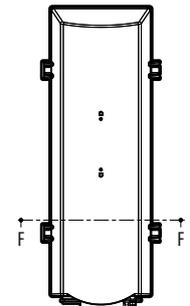
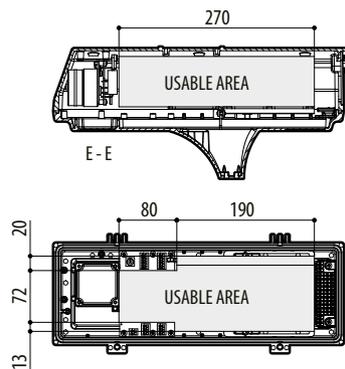
REVERSED SLIDE

SLIDE IN REVERSED SLIDE,
REINFORCED HEATER



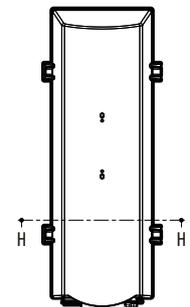
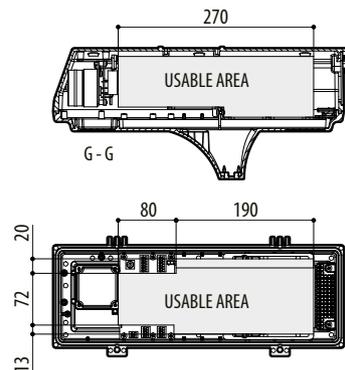
SLIDE IN STANDARD POSITION,
INTEGRATED WIPER

SLIDE IN STANDARD POSITION,
INTEGRATED WIPER,
REINFORCED HEATER



REVERSED SLIDE,
INTEGRATED WIPER

REVERSED SLIDE,
INTEGRATED WIPER,
REINFORCED HEATER



ULISSE, HOUSING