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

IP66 PROTECTION | **TYPE 4X** PROTECTION | WIPER | THERMAL | WIPER | INTEGRATED CAM

MAIN FEATURES

Housing for compact lenses

Variable speed: 0.02°-100°/s Pan; 0.02°-40°/s Tilt

Variable speed with UPTIRN LED illuminators: Pan 0.02°-40°/s - Tilt 0.02°-30°/s

Horizontal continuous rotation, vertical +90°/-40°

Autopan, Preset, Patrol

Position accuracy: 0.02°

Up to 250 Presets

Operating temperature: -20°C / +60°C (-4°F / +140°F)

Power supply: 230Vac, 24Vac or 120Vac

OPTIONS

Day/Night camera 36x, 28x

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

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.

ULISSE PTZ camera unit ensures maximum video surveillance coverage in all outdoor environments, even the most difficult.

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.

ULISSE

ULISSE + 2 UPTIRN

ULISSE FOR THERMAL CAMERAS

WWW.VIDEOTEC.COM DATA SHEETS

TECHNICAL DATA

GENERAL

Constructed from aluminium and tecnopolymer

Epoxypolyester powder painting, RAL9002 colour

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

MECHANICAL

Cable glands: 3xM16

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)

Internal usable area: See drawings

Accuracy of preset positions: 0.02°

Unit weight: 16.3kg (36lb) (16.8kg (37lb), with LED illuminators bracket)

HOUSING'S WINDOW

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

Germanium window (for thermal cameras)
- Usable diameter: 55mm (2.1in)
- Thick: 2mm (0.07in)
- External treatment: scratch resistant (Hard Carbon Coating - DLC), non-reflective
- Internal treatment: non-reflective
- 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: 10-35Vdc (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: 6-15Vdc (200mA max)

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

COMMUNICATIONS

RS-232 interface for firmware update

2-ports RS-485 for daisy chain configuration

Addressable through dip-switch up 255 units

PROTOCOLS

Configuration of telemetry protocol parameters through dip-switch

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

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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

RELATED PRODUCTS

ALBERT	Encoder for video content analysis and smart system management
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
DCT	Video and telemetry touch-screen control keyboard
DCZ	Universal control keyboard for PC applications

BRACKETS AND ADAPTORS

UPTWBA	Wall bracket with internal cable channel
UPTWBTAB	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)	-

ULISSE - CONFIGURATION OPTIONS

		Voltage		Day/Night camera		Options		Video Output		
UPT	**1**	230Vac	**S**	Without camera	**V**	**S**	Without accessories	**A**	**0**	Analog control	**00E**
	2	24Vac	**P**	Day/Night camera 36x optical zoom lens, PAL		**W**	With wiper				
	3	120Vac	**Q**	Day/Night camera 28x optical zoom lens, PAL		**K**	With brackets for UPTIRN (only 24Vac, illuminators not included)				
			N	Day/Night camera 36x optical zoom lens, NTSC		**J**	With wiper and brackets for UPTIRN (only 24Vac, illuminators not included)				
			M	Day/Night camera 28x optical zoom lens, NTSC		**G**	With germanium front window for thermal camera applications				

Not all combinations are possible.

ANALOGUE CAMERAS (DAY/NIGHT)

	Day/Night 36x		Day/Night 28x High sensitivity	
	PAL	NTSC	PAL	NTSC
Optical zoom	36x		28x	
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		Auto, ATW, Indoor, Outdoor (Fix/Auto), Sodium Vapor Lamp (Fix/Auto), Manual	
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. 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	0.25Lux / 1/50s 0.16 Lux / 1/3s	0.25Lux / 1/60s 0.16 Lux / 1/4s
Min. Lighting B/W (Interlace Mode)	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	10mm (0.4in) (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	

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.

VIDEOTEC VIDEO SECURITY PRODUCTS

TECHNICAL DRAWINGS

The dimensions of the drawings are in millimetres.

258

584

514

40°

90°

R360

734

73

374

R365
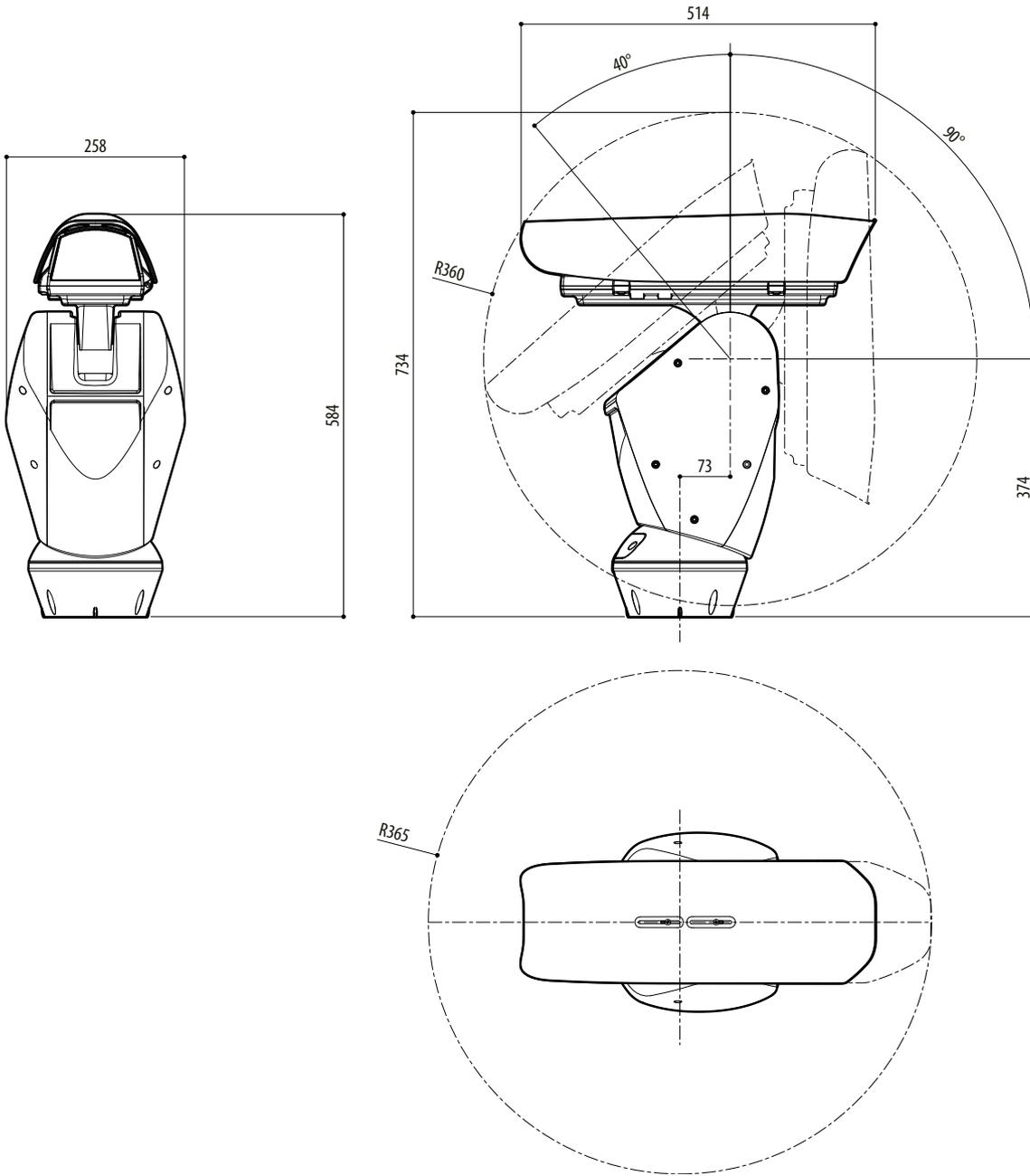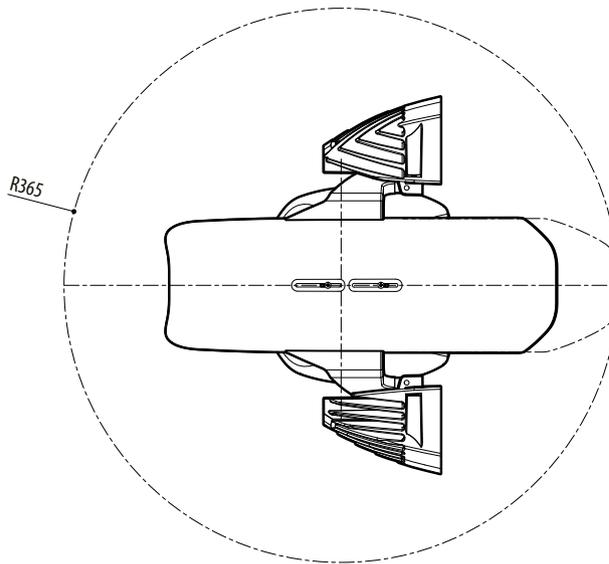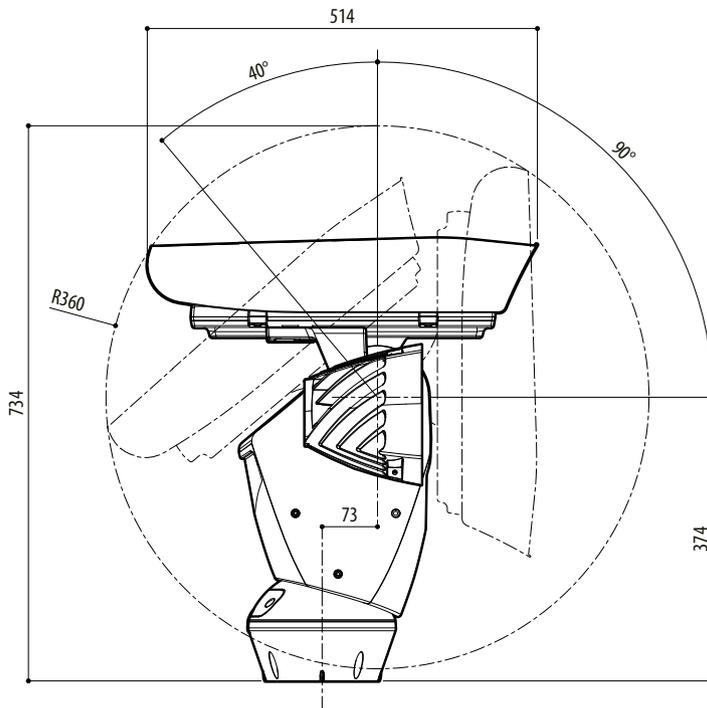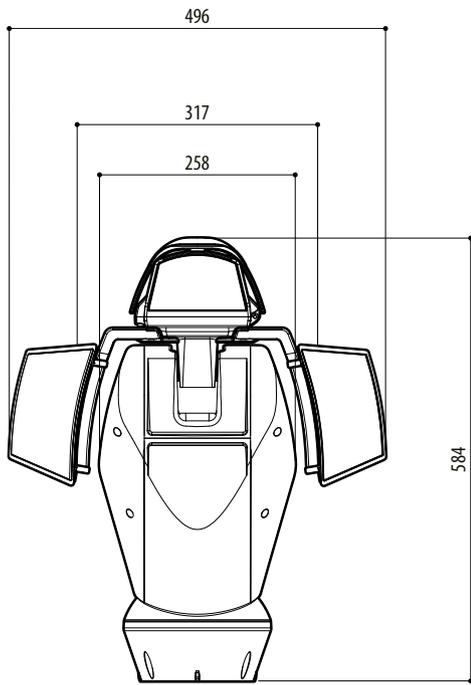
ULISSE

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

258

Ø 55

584

514

40°

90°

R360

734

73

374

R365
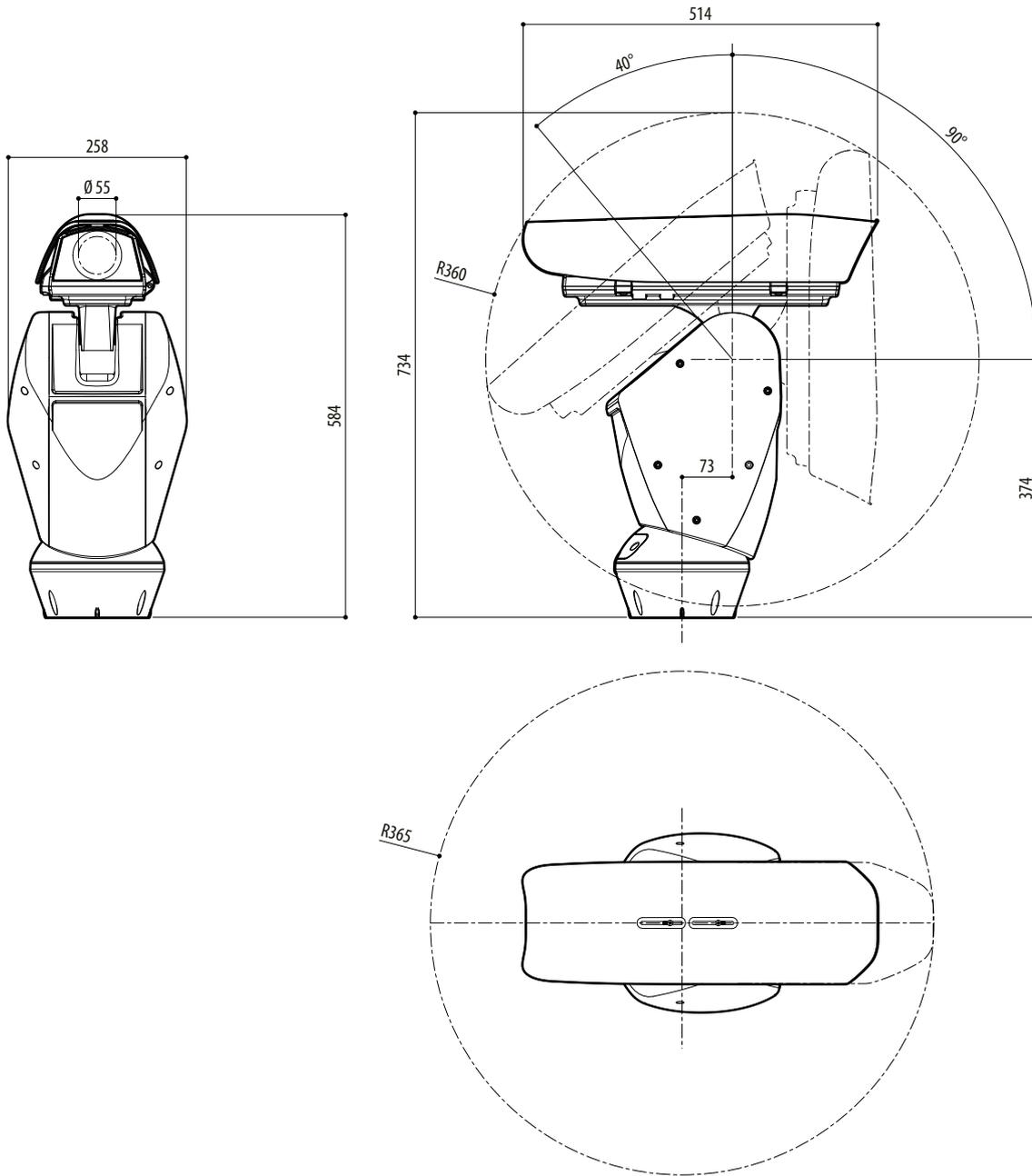
ULISSE, VERSION FOR THERMAL CAMERAS

B - B
104 / 70 / USABLE AREA

B - B
82 / USABLE AREA
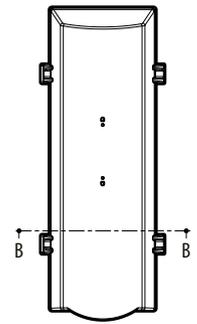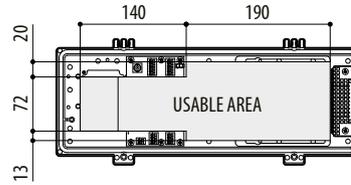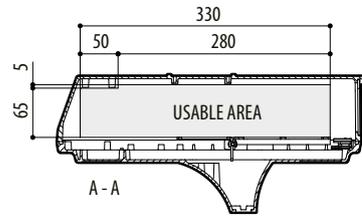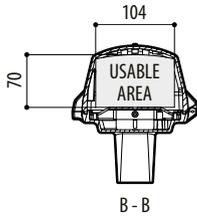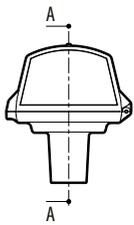
SLIDE IN STANDARD POSITION

SLIDE IN STANDARD POSITION,
REINFORCED HEATER

A - A
330 / 50 / 280 / 5 / 65 / USABLE AREA

140 / 190 / 20 / 72 / 13 / USABLE AREA

B - B

D - D
104 / 84 / 30° / 78 / 10 / USABLE AREA / 69

D - D
82 / USABLE AREA
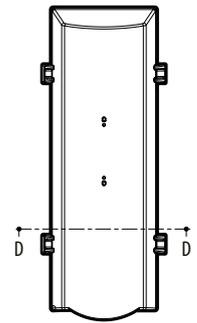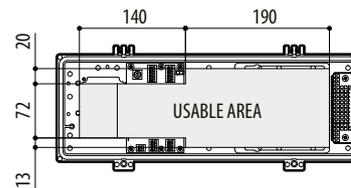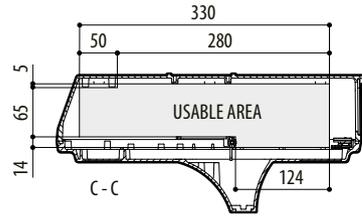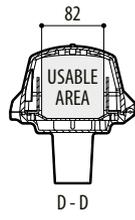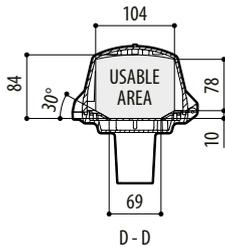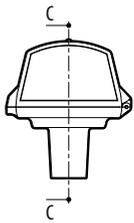
REVERSED SLIDE

SLIDE IN REVERSED SLIDE,
REINFORCED HEATER

C - C
330 / 50 / 280 / 5 / 65 / 14 / USABLE AREA / 124

140 / 190 / 20 / 72 / 13 / USABLE AREA

D - D

F - F
104 / 12 / 13 / 70 / 53 / USABLE AREA

F - F
82 / USABLE AREA
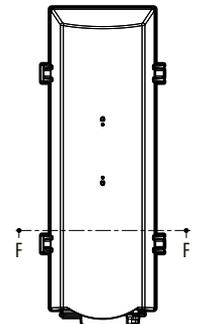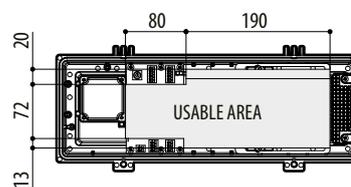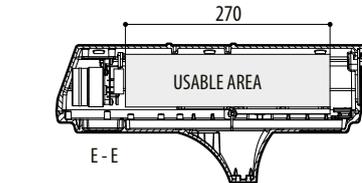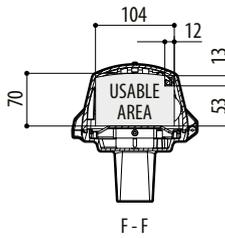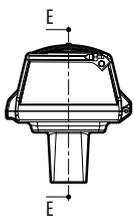
SLIDE IN STANDARD POSITION,
INTEGRATED WIPER

SLIDE IN STANDARD POSITION,
INTEGRATED WIPER,
REINFORCED HEATER

E - E
270 / USABLE AREA

80 / 190 / 20 / 72 / 13 / USABLE AREA

F - F

H - H
104 / 12 / 13 / 84 / 30° / 57 / 10 / USABLE AREA

H - H
82 / USABLE AREA
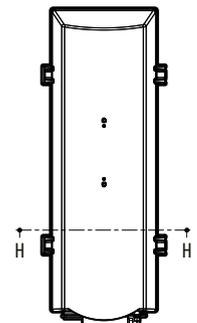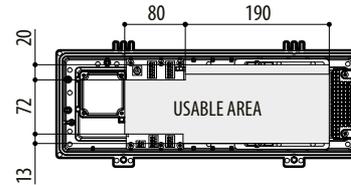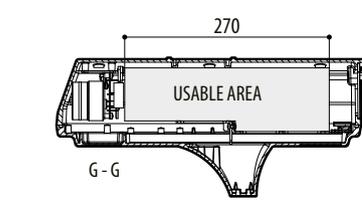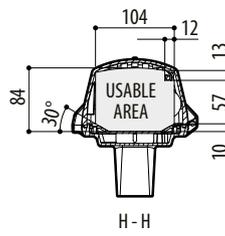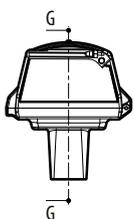
REVERSED SLIDE,
INTEGRATED WIPER

REVERSED SLIDE,
INTEGRATED WIPER,
REINFORCED HEATER

G - G
270 / USABLE AREA

80 / 190 / 20 / 72 / 13 / USABLE AREA

H - H

ULISSE, HOUSING

VIDEOTEC VIDEO SECURITY PRODUCTS