ULISSE
CAMERA POSITIONING UNIT

MAIN FEATURES

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°

Housing for compact lenses

IP66

Autopan, Preset, Patrol

Up to 250 Presets

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

Power supply available 230Vac, 24Vac or 120Vac

OPTIONS:

Day/Night SONY 36x, 28x cameras

IP based control mode, MPEG4, 25fps, Full D1 (compatible with Milestone XProtect Suite and ONVIF protocol)

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

Thanks to its characteristics of reliability, robustness and accuracy, this positioning unit is the ideal solution for demanding security applications, including: traffic and highways control, coastal and harbour monitoring, borders, stadiums and industries surveillance, prisons, military installation and perimeter watching.

The area is always monitored, thanks to the speed and detection accuracy of the target.

The IP-based versions with integrated server for compressing analog data of videos and telemetry allow a network integration for a full control of all the PTZ functions via network. These models support the ONVIF protocol and are integrated by Milestone XProtect® Suite.

The optimal functioning is ensured in very hot and very cold environments, thanks to a sophisticated system of defrosting. The firmware update can be carried out remotely.

ULISSE

ULISSE + 2 UPTIRN

ULISSE FOR THERMAL CAMERAS

TECHNICAL DATA

GENERAL

Built in aluminium and ABS

Epoxypolyester powder painting, RAL9002 colour

Top mount (OTT)

Transmission through toothed belt

Slip-ring

Electronic limit switches

Plug installation thanks to connector and easy replacement on-site

Zero backlash

Configuration of telemetry protocol parameters through dip-switch for RS485

MECHANICAL

Cable glands: 3xM16

Horizontal rotation: continuous

Vertical rotation: +90° to -40°

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

Enclosure glass window (WxH): 118x75mm (4.6x2.7in)

Preset accuracy: 0.02°

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

ULISSE, for thermal cameras:

Germanium window

- Dimensions (Ø): 70mm (2.8in) (external), 55mm (2.1in) (internal)
- Thick: 2mm (0.07in)
- External scratch-resistant treatment: Hard Carbon Coating (DLC)
- Internal antireflection treatment
- Spectral range: 7.5µm ÷ 14µm
- Medium transmittance (7.5µm ÷ 11.5µm): 94%
- Medium transmittance (11.5µm ÷ 14µm): 90%

ELECTRICAL

Input voltage:

- 230Vac, 50/60Hz, 100W
- 24Vac, 50/60Hz, 100W(150-190W max, with LED illuminators)
- 120Vac, 50/60Hz, 100W

Current consumption:

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

Input cables size: AWG 16 (24Vac) - AWG 18 (120/230Vac)

Dimensions of signal cables: AWG 20-26

Housing standard heater: 24Vac, 20W max

4 alarm inputs: 10-35Vdc (2 alarm inputs, with LED illuminators)

2 clean contacts: 50Vdc max or30Vac @1A (1 VOLT free relay contact, with LED illuminators)

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

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 OSD

COMMUNICATIONS

RS232 interface for PC control set-up and firmware upgrade

2 RS485 ports: daisy chain configuration or RS232

Addressable through dip-switch up 255 units

ULISSE, IP based control mode:

- Connection Ethernet port LAN 10/100 Base-T

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.

ULISSE, IP based control mode:

- Compression MPEG-4
- Image resolution: Full D1 (720x576), VGA (640x480), CIF (352x288), QCIF (176x144)
- Image frame rate max 25fps at Full D1
- Web Server

ENVIRONMENT

Indoor/Outdoor

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

Operating temperature (with reinforced heater): -30°C (-22°F)/+60°C (140°F)

Wind resistance (without LED illuminators):

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

Resistant to salty fog (EN50130-5, EN60068-2-52)

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

CERTIFICATIONS

CE EN60950-1, EN61000-6-3 and EN50130-4

FCC Part 15, Class B

IP66, EN60529

cULus Listed, Type 4X (not for thermal cameras version and version with IP control mode)

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
UPTIRPS230	External power supply for ULISSE and ULISSE PLUS, prearranged for two LED illuminators, and control to synchronize IR illuminators with camera Day/Night switching, IN 230Vac, in weatherproof box. Night switch included.
UPTIRPS120	External power supply for ULISSE and ULISSE PLUS, prearranged for two LED illuminators, and control to synchronize IR illuminators with camera Day/Night switching, IN 120Vac, in weatherproof box. Night switch included.
UPTHT1	Cold pack for low temperature 24Vac, 30W
UPTHT2	Reinforced heater for block camera SONY 24Vac, 30W
UPTJBUL	Junction weatherproof box for cables connexion (according UL norm)

VIDEOTEC CCTV PRODUCTS

WASPT0V5L5M00	Water tank 5l, pump with delivery up to 5m (16ft), IN 230Vac-24Vac-120Vac
WASPT0V23L5M00	Water tank 23l, pump with delivery up to 5m (16ft), IN 230Vac-24Vac-120Vac
WASPT0V23L11M00	Water tank 23l, pump with delivery up to 11m (36ft), IN 230Vac-24Vac-120Vac
WASPT1V23L30M00	Water tank 23l, pump with delivery up to 30m (98ft) with water floating, IN 230Vac
WASPT3V23L30M00	Water tank 23l, 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
UPTWBTA	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 (26x13x22,5in)	-
UPT2SVKA000E	20kg (44lb)	66x33x57cm (26x13x22,5in)	-
UPT1SVGA000E	19.5kg (43lb)	66x33x57cm (26x13x22,5in)	-

ULISSE - CONFIGURATION OPTIONS

		Voltage		Day/Night camera		Options			Video output	
UPT	**1**	230Vac	**S**	Without Day/Night camera	**V**	**S**	Without accessories	**A**	**O**	Analog control mode	**00E**
	2	24Vac	**P**	Day/Night camera 36x optical zoom lens, PAL		**W**	With wiper		**X**	IP MPEG4 control mode	
	3	120Vac	**Q**	Day/Night camera 28x optical zoom lens, PAL		**K**	With bracket for UPTIRN (only 24Vac, illuminators not included)				
			N	Day/Night camera 36x optical zoom lens, NTSC		**J**	With bracket for UPTIRN, wiper (only 24Vac, illuminators not included)				
			M	Day/Night camera 28x optical zoom lens, NTSC		**G**	With germanium front window for thermal cameras applications				

Not all combinations are possible.

CAMERA FEATURES

	SONY Day/Night 36x		SONY 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	Greater than 50dB		Greater 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	SONY Modular Automatic Lens Reset Technology		SONY Modular Automatic Lens Reset Technology	
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	

DISTANCES IN NIGHT MODE WITH SONY 36X MODULE

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)

SONY is a registered trademark of SONY Corporation, Japan. EXView HAD is a registered trademark of SONY Corporation.

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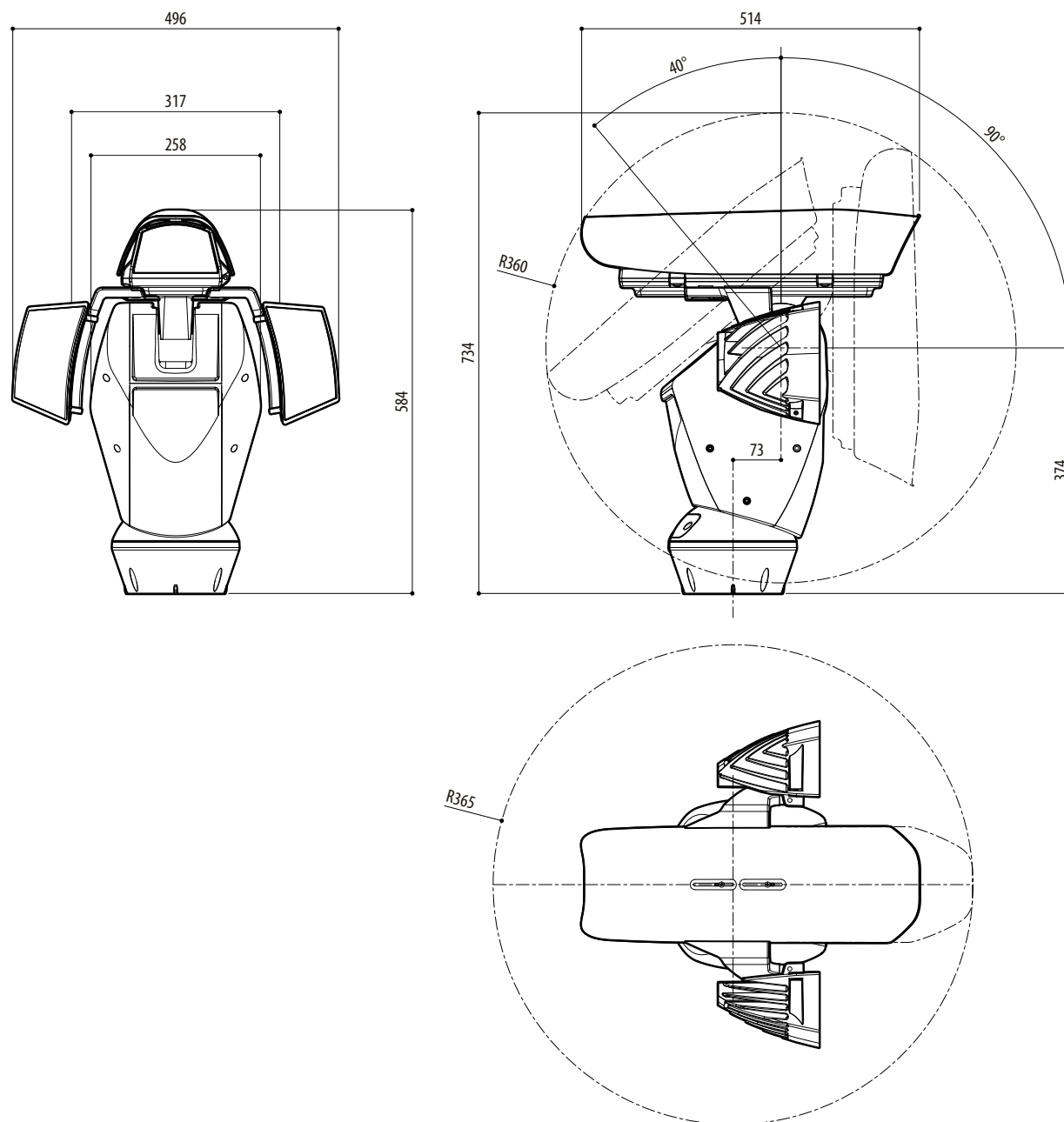
The distances are in meters and refer to the displaying of images at night time which have enough quality to identify and classify an abnormal situation and the type of subject within the range of the pan & tilt unit. The distances also depend on the reflection coefficient of the surfaces present on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

VIDEOTEC CCTV PRODUCTS

VIDEOTEC

TECHNICAL DRAWINGS

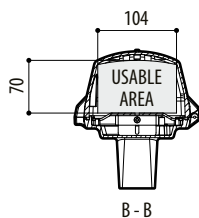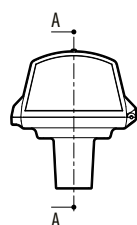*Sizes in millimeters.*

258

584

514

40°

90°

R360

734

73

374

R365
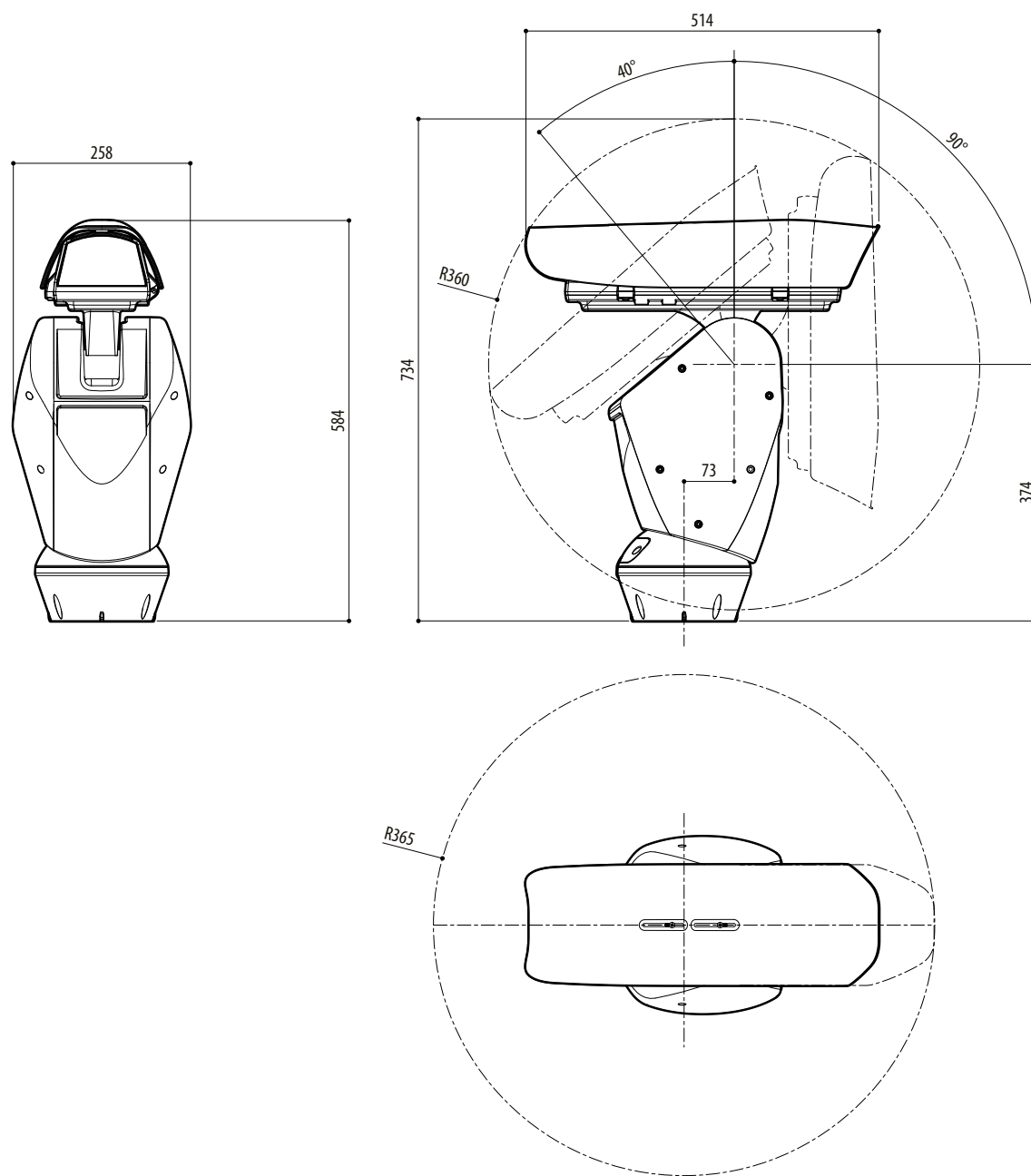
ULISSE

TECHNICAL DRAWINGS

Sizes in millimeters.

496

317

258

584

514

40°

90°

R360

734

73

374

R365

ULISSE, PRE-ARRANGED VERSION FOR TWO LED ILLUMINATORS INSTALLATION

VIDEOTEC CCTV PRODUCTS

VIDEOTEC

TECHNICAL DRAWINGS

Sizes in millimeters.

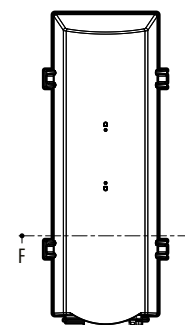258

55

584

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40°

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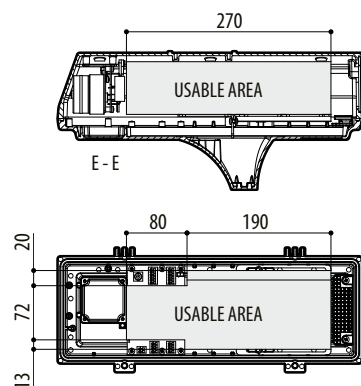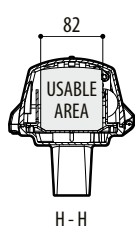
R360

734

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374

R365
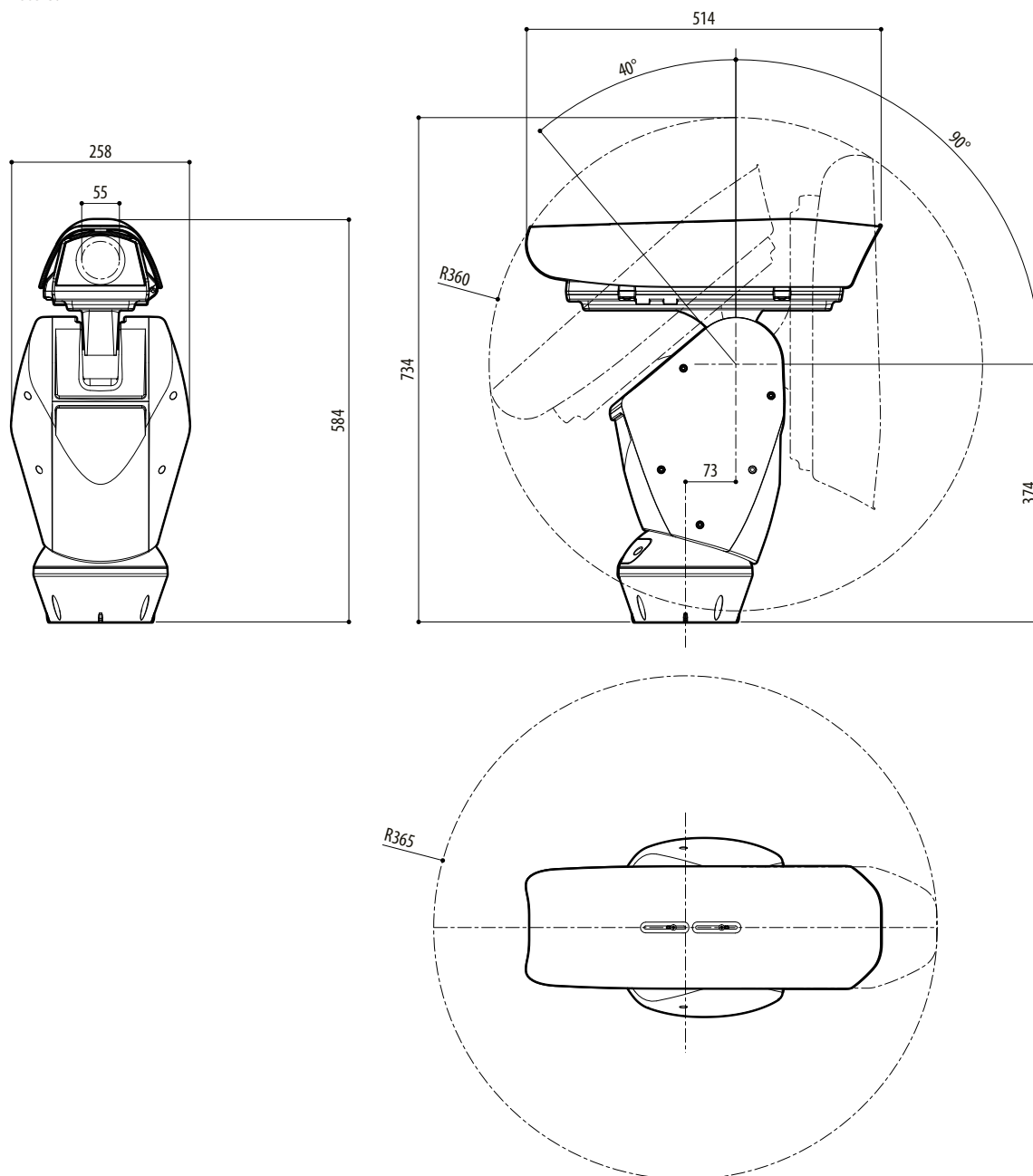
ULISSE, VERSION FOR THERMAL CAMERAS

SLIDE IN STANDARD POSITION
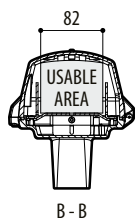
SLIDE IN STANDARD POSITION,
REINFORCED HEATER
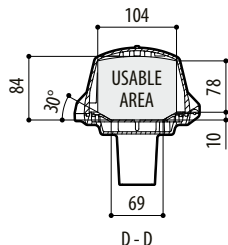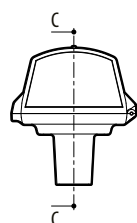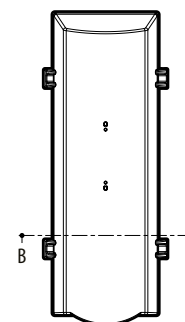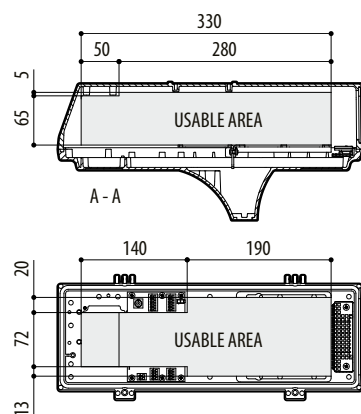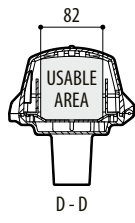
REVERSED SLIDE

SLIDE IN REVERSED SLIDE,
REINFORCED HEATER
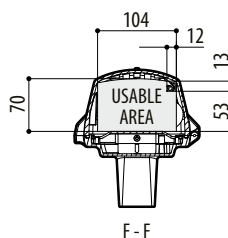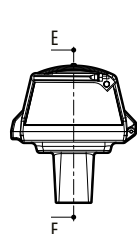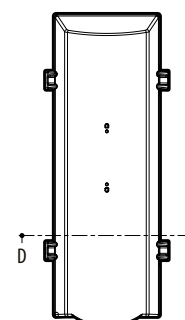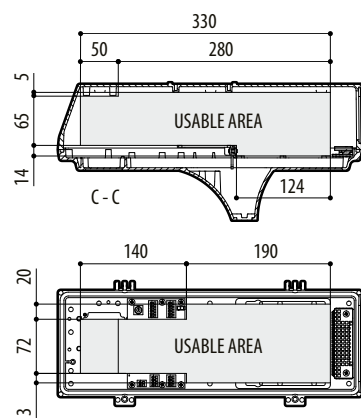
SLIDE IN STANDARD POSITION,
INTEGRATED WIPER
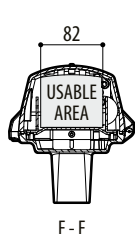
SLIDE IN STANDARD POSITION,
INTEGRATED WIPER,
REINFORCED HEATER
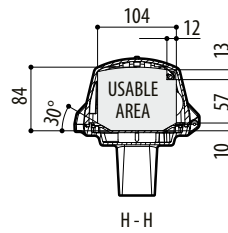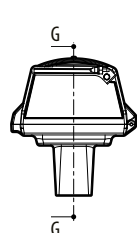
REVERSED SLIDE,
INTEGRATED WIPER

REVERSED SLIDE,
INTEGRATED WIPER,
REINFORCED HEATER

ULISSE, HOUSING

VIDEOTEC CCTV PRODUCTS