

UP36D

Upright dual sensor PTZ 36x zoom

DESCRIPTION

The Dual sensor Upright PTZ (UP36D) is a high-precision, full-featured network PTZ camera providing high-quality, high-definition optical images, combined with thermal imaging. The integrated 36x optical zoom in combination with the thermal sensor makes the camera ideal for 24/7 intrusion detection, hot-spot detection and other high-risk applications. The UP36D must be ordered in combination with a TC-336 or TC-640 thermal core. It supports all thermal lenses up to 60mm

FEATURES

1/2 Sony CMOS sensor

36x Optical zoom, true day & night

Supports a range of thermal sensors and lenses

Multiple H.264/MJPEG streaming

Combined Optical/Thermal image

Hot-spot detection, intrusion detection

Continuous rotation, tilt from -90 $^{\circ}$ to +40 $^{\circ}$

Preset accuracy of 0.1°

ONVIF Profile S





Description

Construction

The robust construction using cast aluminum and durable plastics ensures accurate positioning and stable video, close by and at large distances. The UP36D is designed to operate under extreme temperatures for mission critical applications.

Ultra low-light performance

The 36x zoom is fitted with a 1/2 inch ultra low-light sensor, it produces high quality color images even under low light conditions. No more slow-shutter smearing of movement (ghosting) or unclear noisy images.

Thermal imaging

Next to the optical sensor an uncooled thermal sensor is fitted for night-vision or thermal imaging. Depending on the application the UP36D can be fitted with a wide range of thermal sensors and lenses, varying from 7.5mm wide-angle to 60mm tele. For accurate hot-spot measurements, such as smoldering detection, the camera can be fitted with special radiometric thermal sensors.

Multi-stream high definition

The UP36D has multiple stream capability for simultaneous streaming of one or more H.264 or MJPEG streams. Two independent H.264/MJPEG encoders per sensor can generate full-HD 1080p video streams at full frame rate. Multiple combinations of resolution and frame rate can be configured to satisfy different live viewing and recording scenarios.

Open standards

Its compliance to open standards ensure that the UP36D is compatible with the most common VMS's out of the box. If you need to incorporate the camera's special features in your dedicated client software, the Programming Interface offers an easy HTTP API for guaranteed interoperability. The camera will be ONVIF profile S compliant.

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Optical Camera (36x zoom)							
Image sensor	1/2 Sony Cl	MOS sensor					
Optical zoom	36x						
Video standards	25 fps or 30 fps						
Output resolutions	1920x1080; 1280x720; 1024x768; 800x600; 720x512; 640x480; 352x240						
Aspect ratio	16:9; 4:3						
Effective pixels	1937 (H) x 1,097 (V), 2.12 MP						
Shutter speed	1/25 ~ 1/30000s, digital slow shutter (DSS) Off/2x/4x						
Signal-to-noise ratio	better than 50 dB (AGC off)						
Minimum scene illumination	Color (1/30s) 0.01 lux, BW (1/30s) 0.002 lux ;						
	Color DSS (1/1s) 0.001 lux, BW DSS (1/1s) 0.0002 lux						
Horizontal field of view	56.5° to 2.12°						
Focal length		6 mm (F/1.5) to 216 mm (F/4.8)					
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Image control							
WDR/BLC	Off, WDR, E	Off, WDR, BLC					
WDR		120 dB (HDR)					
HLC	Off, On, Nic	Off, On, Night Only					
White balance	Auto, One Push, Manual, Indoor, Outdoor						
Digital image stabilization	Off, On						
Gain Control (AGC)	Off, On						
Iris control	0 to 20 steps						
Exposure	•	Auto, Iris Priority, Shutter Priority, Manual					
Brightness	0 to 20 steps						
Sharpness	0 to 10 step	·					
AF mode	Auto, One Push, Manual						
DNR		Auto, Off, Low, Middle, High					
ACE		Off, Low, Middle, High					
Defog		Off, On (Auto, Manual)					
Day/Night (IR-cut filter)	Auto, Day, Night, external						
Privacy Masks	Dynamic, up to 24						
Optical zoom		36x (32x digital)					
'							
Thermal imager (TC-336-xy; TC-640-xy)							
Imager	uncooled m	nicro-bolomete	r				
Pixel pitch	17 μm						
Resolution	•						
- TC-640-xy	640x512						
- TC-336-xy	366x256						
Focal length (y=)	7.5 mm	9 mm	13 mm	19 mm	25 mm (EoL)	35 mm (EoL)	
- Field of view TC-640	90°x69°	69°x56°	45°x37°	32°x26°	25°x20°	18°x14°	
- f-number	f/1.4	f/1.4	f/1.25	f/1.25	f/1.1	f/1.5	
- Field of view TC-336	45°x35°	35°x27°	25°x19°	17°x13°	13°x10°	9.3°x7.1°	
- f-number	f/1.4	f/1.25	f/1.25	f/1.25	f/1.1	f/1.5	
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Specs



Focal length (y=)	50 mm (EoL) 60 mm (EoL)			
Field of view TC-640-xy	12.4°x9.9° 10.4°x8.3°			
- f-number	f/1.2 f/1.25			
- Field of view TC-366	6.5°x5° 5.5°x4.2°			
- f-number	f/1.2 f/1.25			
Spectral bandwidth	7.5 µm to 13.5 µm (LWIR)			
Max frame rate				
- TC-640-Fy, TC336-Fy	25/30 fps			
- TC-640-Sy, TC336-Sy	8.3/7.5 fps			
Sensitivity (NEdT)	< 50 mK @ f/1.0			
Time to image	better than 60 s (boot time)			
Digital zoom	Optional			
Color palette	10 selectable color palettes with freely adjustable temperature thresholds			
Video stream				
Number of streams	2x streams for optical image and 2x streams for thermal image			
Aspect ratio	16:9, 16:10, 5:4, 4:3 (cropped, no scaling, one setting for both sensors)			
Compression algorithm(s)	H.264 BP/MP/HP (H.264/MPEG-4 AVC), MJPEG			
Supported output resolutions	·			
- Optical	1920x1080; 1280x1024; 1280x720; 720x576; 704x576; 640x480;			
'	480x576, 352x576; 704x288; 352x288; 320x240, 176x144			
- Thermal	720x576; 704x480; 704x240; 640x512, 352x288; 336x256, 176x120			
Compression bit rate control	Variable bit rate (VBR)			
Output bit rate (per H.264 stream)	Up to 6Mb/s			
Encoding latency	125 ms or better			
Number of video output streams	Up to 20 (RTSP) per input			
Total output data rate (max)	50Mb/s			
Video overlay	3x Text, 1x bitmap (BMP, GIF) in both optical and thermal image			
•	Compass function (editable)			
Analytics Optical				
VCA	Video Motion Detection, Image Quality monitor, tamper detection			
Analytics Thermal				
FenceGuard	Intrusion detection. Free form zones or detection lines			
- Detection line	Touch, Cross (directional sensitive), Cross			
Detection zone	Touch, Enter, Inside, Exit			
FlameGuard	Hotspot detection in two zones or Flare-on, Flare-off and Flare-too-large monitoring			
- Measuring range	-40°C to 550°C			
- Accuracy	+/- 20 °C (T 100 °C)			
Event time	0 to 10 s			
cvent time	generic ONVIF, digital I/O, SPI			

Specs



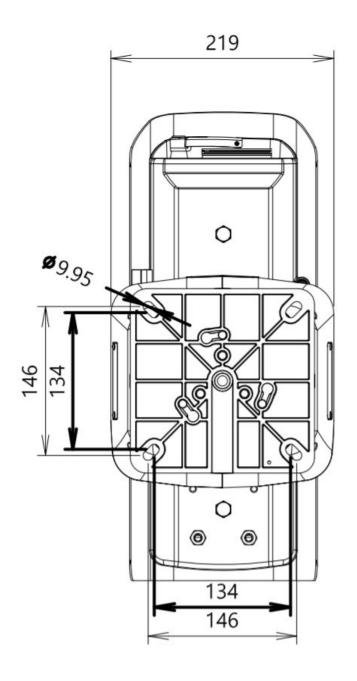
Network					
Interface(s)	100 Mbps FE Ethernet (RJ-45)				
Protocols	IPv4, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP,				
	UPnP, TLS1.2, IGMPv1/2/3, SNMPv1/2, QoS, ONVIF Profile S, 802.1X, NTCIP1205				
Password levels	Admin, Operator, Viewer				
Supported browsers	Edge, Chrome, Firefox, Safari				
User accounts	20				
Storage					
Storage options	Micro HCSD card, 32 GB, NAS				
Local recording	Continuous, scheduled, alarm				
Powering					
Power consumption	70 W incl. heater, 30 W without heater				
Heater consumption	30 W Body; 10 W Defroster				
Power	24 Vac +/- 10%				
Environmental					
Operating temperature	-40 °C to +75 °C (per Nema TS-2)				
Vibration, shock	Nema TS-2 (2015)				
Max wind velocity	240 km/h (150 mph)				
Relative humidity	5% to 100%				
Ingress rating	IP66				
Impact rating (Casing only)	IK10				
Corrosion Class	C5 (EN 12944-1998)				
Mechanical					
Housing materials	Aluminum Die-cast				
Coating	Powder coated (White)				
Transmission	Toothed belt driven				
Pan	Endless 360 degree				
Pan speed (variable)	0.036°/s up to 120°/s				
Tilt	-90° to +40°				
Tilt speed (variable)	0.012°/s up to 40°/s				
Speed-by-Zoom	Yes, proportional for Optical zoom as well as Digital zoom				
Presets	256				
Preset accuracy	0.1° (typ.)				
Dimensions (h x w x d)	See drawings for dimensions				
Weight	14 kg (30 lbs)				
Ordering information					
UP36D	Upright dual sensor PTZ 36x zoom				
UP-IR200	IR illumination kit for UPxx PTZ, 200 m, 850 nm				
UP-WM	Wall mount bracket for UPxx				





Ordering information	
UP-JB	Junction Box for UP series
UP-PM	Double bracket Pole mount adaptor for UP series
PA80-24	PSU, 115/230 VAC to 24VAC, 3.3A, indoor, extended temp.
PA144-JB24	PSU, 115/230VAC to 24VAC,6A, outdoor, IP67/IK10







RELATED



SiquraUpright dual sensor PTZ 36x zoom



Siqura UP-IR200 IR illumination Kit for Upright PTZ UPxx



Siqura UP-WM

Wall mount bracket for UPxx



Siqura PSR, PADC power adaptors for (PTZ) cameras and PoE switches



Siqura UP-PMDouble bracket pole mount adapter for UP wall mount



TKH Security PA144-JB24
PSU, 115/230VAC to 24VAC,6A, outdoor, IP67/IK10 junction box



Siqura UP-JBPole top mount with integrated junction box for Upxx