

UP22-4K (EOL)

Upright PTZ, 4K 22x zoom, 24 Vac

DESCRIPTION

The Upright PTZ (UP22-4K) is a high-precision, full-featured Ultra HD (4K, 8Mpixel) network PTZ camera providing high-quality, ultra sharp images. The integrated 22x optical zoom in combination with the UHD resolution, and its gyro-based embedded image stabilization makes the camera ideal for traffic applications.

FEATURES

1/1.8" Progressive CMOS

22x Optical and 10x digital zoom,

8 Mpixel @ 30 fps resolution

Quad H.265/H.264/MJPEG streaming

120 dB WDR (HDR)

Day/Night with IR-cut filter

Variable pan and tilt speed, proportional zoom

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

Preset accuracy of 0.1°

Corrosion Proof, IP66

ONVIF Profile S, G and T





Description

Construction

The robust construction using cast aluminum and durable plastics ensures accurate positioning and stable video, close by and at large distances. The UP22-4K is made to operate under extreme temperatures for mission critical applications. It is tested and approved according the environmental requirements of NEMA TS-2.

22x zoom and 4K UHD

The UP22-4K can stream an ultra high-definition video stream with razor sharp images. In combination with the optical 22x zoom this results in images with a quality comparable to a convectional 1080p camera with 44x optical zoom. The auto-focus is fast and precise over the whole zoom range.

Multi-stream high definition

The camera has quad-stream capability for simultaneous streaming of H.265, H.264 and/or MJPEG. Multiple combinations of resolution and frame rate can be configured to fit different scenarios. 8 Mpixel (4K) resolution is available at 30 fps, two full-HD 1080p streams at 60 fps can be combined with a low resolution stream.

Image enhancement

The UP22-4K provides HDR or dual shutter WDR for extreme dynamic range for use in bright-light situations. Back-light or high-light compensation enhances image visibility in difficult lighting situations. With a built-in gyro the UP22-4K minimizes the effects from vibration to ensure the sharp and smooth video.

Cybersecurity

At the first login attempt, it's compulsory to set up a strong password to a certain level. Using HTTPS SSL/TLS 1.2, web browsers and video streaming can be protected within a secured communication channel. The security boundaries are set using multi-level user management and system log records every configuration change as well as login attempts as the track. Network access is protected by IEEE 802.1x port-based authentication with EAP/TLS or EAP/PEAP.

ONVIF

Multiple options are available to easily integrate the UP22-4K to a video management system. In support of open standards, the camera is compliant with the ONVIF Profile T and Profile S for streaming compatibility with other VMS's, and Profile G for local



storage compatibility.



Camera				
Image Sensor	1/1.8" Progressi	ve CMOS		
Effective pixels	3864x2180 (4K)			
Minimum scene illumination	Color: 0.04 lux, B/W: 0.002 lux,			
Shutter Speed	1 s to 1/10,000 s			
Lens	22x optical zoom			
Focal length	6.4 - 138.5mm, F/1.5			
Field of View				
- Horizontal	64° to 3°			
- Vertical	37° to 2°			
Focus Control	Autofocus/Manual			
Slow Shutter	Supported			
Day/Night	IR-cut filter with	twilight sensor		
Internal demister/heater	Standard			
Image				
Wide dynamic range	120dB			
White Balance	Auto, ATW, Manual, One push			
Image Setting	Saturation, Brightness, Contrast, Sharpness, Backlight Compensation,			
	Highlight Compensation, WDR			
Day/Night Switch	Auto/Scheduled/Triggered by Alarm In			
Image Enhancement	2DNR, 3DNR, ColorNR			
Image Stabilization	Support, built-in Gyro			
Digital Zoom	10x			
Image Rotation	90°, 180°, 270° rotation			
privacy masks	24x			
Text and picture overlay	Compass, date and time, 4x line (40 characters each),			
	preset title, image, image transparency			
Video				
Video Compression	H.265 (Main Pro	file) / H.264 (High Pro	file/Main Profile) / M.IP	FG
Video Bitrate	H.265 (Main Profile) / H.264 (High Profile/Main Profile) / MJPEG 64 Kbps 10 Mbps			
Max. Resolution	3840 x 2160 at 30 fps, (1920x1080 for MJPEG)			
Supported Resolution	3840 x 2160(8MP); 3200x1800; 1920x1080; 1280x1024; 1280x720; 1024x768; 800x600			
	720x480; 640x480(VGA); 352x240; 320x240			
Frame Rate	25/30 fps, 50/60			
Number of simultaneous streams	Quad Streams, Individually configurable stream			
Max. Streaming				
- 30fps (dual shutter WDR)	3840x2160	800x600		
- 30fps (dual shutter WDR)	3200×1800	1920×1080	800×600	
- 30fps (dual shutter WDR)	1920×1080	1920×1080	1920x1080	1920×1080
- 60fps	1920×1080	1920×1080	352x240	
Bitrate Control	Constant bit rate (CBR), variable bit rate (VBR), Low bit rate (LBR)			
	Up to 20 (RTSP)			

Specs



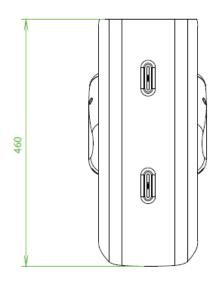
Video			
Total Output Data	50Mb/s		
Video output	1 Vp-p; 2-pin to BNC patch cable (For test/installation only)		
Region of interest	3 regions in total		
Analytics			
Loitering Detection	Enter and leiter in a user defined region		
Intrusion Detection	Enter and loiter in a user-defined region		
Object Removal	Enter in a user-defined region		
•	Remove the user-defined object Enter in a user-defined region		
Object Abandoned Event detections	External Input, Analytics, Network Failure Detection, Periodical Event,		
Event detections	Manual Trigger, Cell-based motion detection, Tampering		
Event Action	Alarm output, record video clip, send alarm message, upload image		
Event Action	Alaim output, record video clip, send alaim message, upioad image		
Network			
Communication Interface	100/1000 Mb (RJ45)		
Network protocols	IPv4/IPv6, HTTP, HTTPS, TLS1.2, 802.1x, Qos, FTP, SMTP(SSL), UPnP,		
'	SNMP(v1/v2/v3/Traps), DNS, DDNS, NTP, RTSP, RTCP, RTP/UDP, TCP/IP, IGMP(v2/v3/		
	DHCP, PPPoE, Pelco D (TCP/UDP), NTCIP (TCP/UDP), ONVIF Profile S/G/T,		
	Siqura Protocol (SPI)		
Security	User authentication, Syslog, Digest authentication (RTSP, HTTP), HTTPS		
	Secure port encryption (TLS1.2); IEEE 802.1x port-based network access control		
	(EAP-MD5, EAP-TLS, EAP-TTLS-EAP-PEAP), IP filtering		
Web Viewer	Internet Explorer 11, Microsoft Edge, Google Chrome, Mozilla Firefox, Apple Safari		
Powering			
Power consumption	70 W incl. heater, 30 W without heater		
Heater consumption	30 W Body; 10 W Defroster		
Power	24 Vac		
Environmental			
Operating temperature	-34 °C to +74 °C (-29 °F to 165 °F) - per Nema TS-2		
- Continuous (sheltered, air temp)	-34 °C to +60 °C (-22 °F to 140 °F)		
- Cold start	-30°C (-22 °F)		
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			
	All min to Diversity		
Housing materials	Aluminum Die-cast		
Coating	Powder coated (White)		

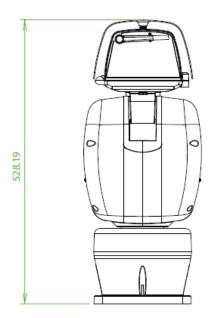


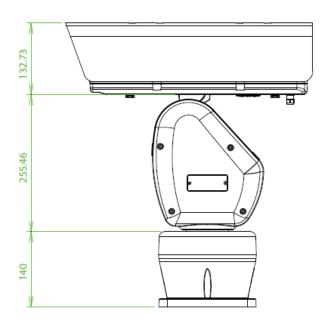


Mechanical			
Transmission	Toothed belt driven		
Pan	Endless 360 degree		
Pan speed (variable)	0.036°/s up to 120°/s		
Tilt	-90° to +40°		
Tilt speed (variable)	0.012°/s up to 40°/s		
Speed-by-Zoom	Yes, proportional for Optical zoom as well as Digital zoom		
Presets	256		
Preset accuracy	0.1° (typ.)		
Wiper	Standard integrated wiper		
Dimensions (h x w x d)	See drawings for dimensions		
Weight	14 kg (30 lbs)		
Ordering information			
UP22-4K	Upright PTZ 4K 22x zoom, 24 Vac		
UP-IR200	IR illumination kit for UPxx PTZ, 200 m, 850 nm		
UP-WM	Wall mount bracket for UPxx		
UP-PM	Double bracket Pole mount adaptor for UP series		
WP10	10I washer tank, pump 10m, float switch, 316L frame, 24 Vac -230 Vac		
UP-WNK01	Upxx water nozzle kit. Includes nozzle, bracket and 10m hose		
PA80-24	PSU, 115/230 VAC to 24VAC, 3.3A, indoor, extended temp.		
PA144-JB24	PSU, 115/230VAC to 24VAC,6A, outdoor, IP67/IK10		

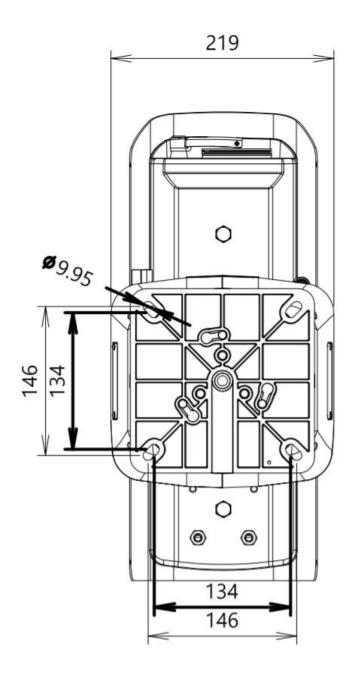














RELATED



Siqura UP-IR200

IR illumination Kit for Upright PTZ UPxx



Siqura UP-WM

Wall mount bracket for UPxx



Siqura WP10

10l washer tank, pump 10m, float switch, 316L frame



Siqura PSR, PA

DC power adaptors for (PTZ) cameras and PoE switches



TKH Security PA144-JB24

PSU, 115/230VAC to 24VAC,6A, outdoor, IP67/IK10 junction box