

# UP22-4K

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

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1/1.8" Progressive CMOS

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22x Optical and 10x digital zoom,

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8 Mpixel @ 30 fps resolution

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Quad H.265/H.264/MJPEG streaming

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120 dB WDR (HDR)

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Day/Night with IR-cut filter

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Variable pan and tilt speed,  
proportional zoom

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Continuous rotation, tilt from -90° to  
+40°

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Preset accuracy of 0.1°

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Corrosion Proof, IP66

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ONVIF Profile S, G and T

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## 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" Progressive 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 Profile) / H.264 (High Profile/Main Profile) / MJPEG			
Video Bitrate	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, 50/60fps			
Number of simultaneous streams	Quad Streams, Individually configurable stream			
Max. Streaming				
- 30fps (dual shutter WDR)	3840x2160	800x600		
- 30fps (dual shutter WDR)	3200x1800	1920x1080	800x600	
- 30fps (dual shutter WDR)	1920x1080	1920x1080	1920x1080	1920x1080
- 60fps	1920x1080	1920x1080	352x240	
Bitrate Control	Constant bit rate (CBR), variable bit rate (VBR), Low bit rate (LBR)			
Number of video output streams	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 loiter in a user-defined region
Intrusion Detection	Enter in a user-defined region
Object Removal	Remove the user-defined object
Object Abandoned	Enter in a user-defined region
Event detections	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger, Cell-based motion detection, Tampering
Event Action	Alarm output, record video clip, send alarm message, upload 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, RTPCIP, RTP/UDP, TCP/IP, IGMP(v2/v3), DHCP, PPPoE, Pelco D (TCP/UDP), NTCIP (TCP/UDP), ONVIF Profile S/G/T, Siqua 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

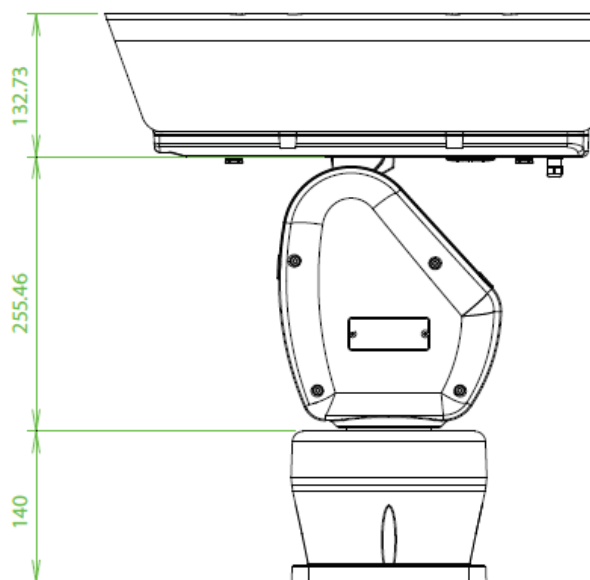
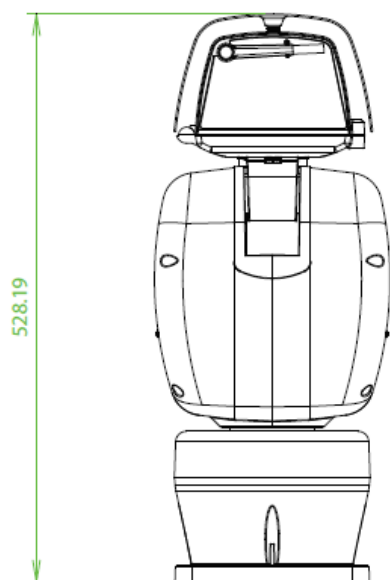
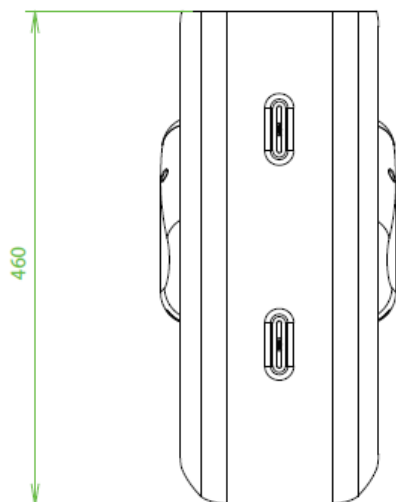
Environmental	
Operating temperature	-34 °C to +74 °C (-29 °F to 165 °F) - per Nema TS-2
- Continuous (sheltered, air temp)	-34 °C to +60 °C (-22 °F to 140 °F)
- Cold start	-30°C (-22 °F)
Vibration, shock	Nema TS-2 (2015)
Max wind velocity	240 km/h (150 mph)
Relative humidity	5% to 100%
Ingress rating	IP66
Impact rating (Casing only)	IK10
Corrosion Class	C5 (EN 12944-1998)

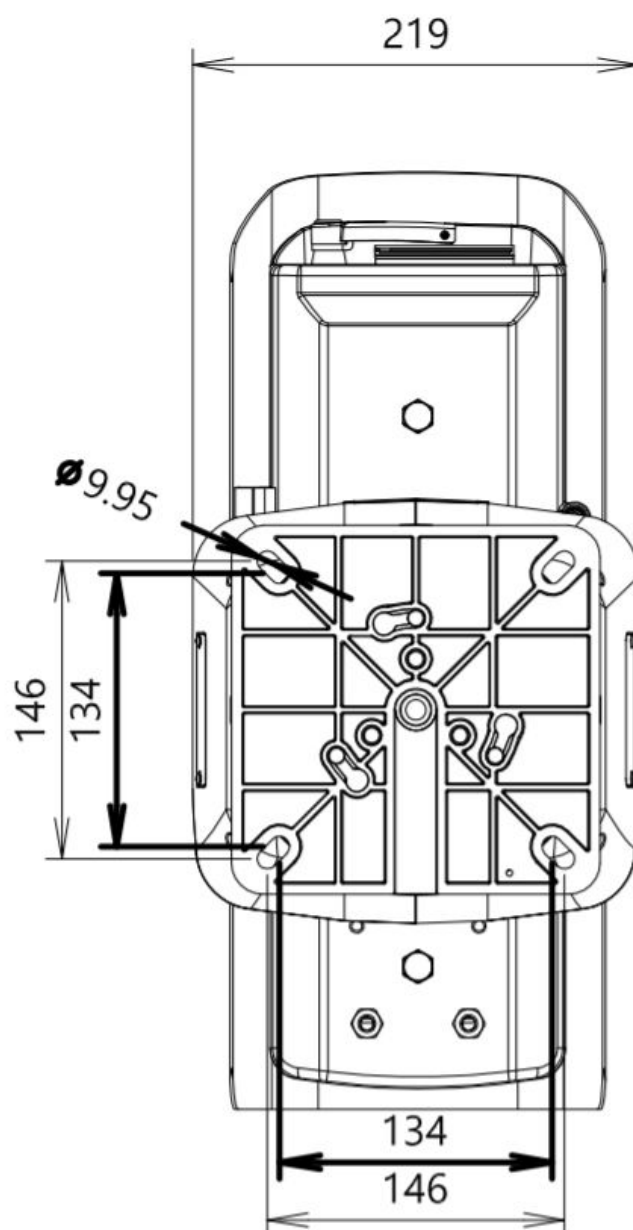
Mechanical	
Housing materials	Aluminum Die-cast
Coating	Powder coated (White)

# Specs



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	10l 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