

TPU230IRV2

TrafficPTZ Ultimo with IR, v2

DESCRIPTION

The TrafficPTZ Ultimo (TPU) is a high-precision, full-featured network PTZ camera providing high-quality, high-definition images. The integrated 30x optical zoom in combination with the dual LED illuminators and its embedded image stabilization makes the camera ideal for traffic applications.

FEATURES

1/2 Sony CMOS sensor

30x Optical zoom, true day & night

Dual LED Illumination

Full HD 1080p resolution (2.1M)

Multiple H.264/MJPEG streaming

Day/Night with IR-cut filter

Variable pan and tilt speed,
proportional zoom

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

Wind load up to 200 km/h

Preset accuracy of 0.02°

ONVIF Profile S



Description

Construction

The robust construction using cast aluminium and durable plastics ensures accurate positioning and stable video, close by and at large distances. The TPU230IRv2 is designed to operate under extreme temperatures and all lighting conditions for mission critical applications.

Multistream high definition

The TPU230v2 has multiple stream capability for simultaneous streaming of one or more H.264 or MJPEG streams. Two independent H.264/MJPEG encoders 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 TPU230IRv2 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. This makes the camera an outstanding candidate for projects which require customization.

Image enhancement

The TPU230IRv2 provides automatic IR-illumination functionality, for use in no-light situations. Backlight compensation enhances image visibility in difficult lighting situations. This ensures quality pictures at all times. An ultra wide dynamic range, using dual-exposure techniques ensures a even exposure in both the highlights and shadows in the image.

Camera		
Image sensor	1/2 Sony CMOS sensor	
Video standards	25 fps or 30 fps	
Output resolutions	1920x1080; 1280x720; 1024x768; 800x600; 720x512; 640x480; 352x240	
Effective pixels	1937 (H) x 1,097 (V), 2.12 MP	
Shutter speed	1/30 ~ 1/30000s, digital slow shutter (DSS) Off/2x/4x	
Signal-to-noise ratio	>50 dB (AGC off)	
Minimum scene illumination	Color (1/30s) 0.15 lux, BW (1/30s) 0.01 lux Color DSS (1/7.5s) 0.0375 lux, BW DSS (1/7.5s) 0.002 lux	
LED Illumination	Tele	Wide
- illumination angle	1x 10°	1x 60°
- Distance	240 m	80 m
- Wavelength	850 nm	850 nm
Horizontal field of view	61.2 to 2.32 degrees	
Focal length	6mm (F1.5) to 180mm (F4.3)	

Image control	
WDR/BLC	Off / WDR / BLC
High Light compensation	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 ~ 20 steps
Sharpness	0 ~ 10 steps
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 / Ext-in
Privacy Masks	Dynamic, up to 24
Optical zoom	30x (32x digital)

Video	
Compression	H.264, MJPEG
Aspect ratio	Selectable 16:9 or 4:3. Cropped, no scaling.
Number of video streams	2

Network	
Interface(s)	100 Mbps FE Ethernet (RJ-45)
Protocols	IPv4, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMPv1/2/3, SNMPv1/2/3, QoS, ONVIF Profile S, IEEE802.1X, NTCIP1205, TLS1.2

Storage	
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Specs

Storage

Storage options	Micro SDHC card, 32 GB, NAS
Local recording	Continuous, scheduled, alarm

Powering

Power consumption	160W with IR+heater; 100W with heater, 50W without heater
Power	230 Vac

Environmental

Operating temperature	-40 °C to +65 °C
Relative humidity	5% to 100%
Wind load	up to 160 km/h operational, 200 km/h stationary
MTBF (Mean Time Between Failures)	>100,000 hours at 40 °C

Test specification

EMC Emission	EN 61000-6-3 (2007) + A1 (2011)
	EN 61000-3-2 (2014)
	EN 61000-3-3 (2013)
	FCC 47 CFR 15
EMC Immunity	EN 61000-6-2 (2005) + AC (2005)
	EN 50130-4 (2011)
	LVD Safety

Mechanical

Housing materials	Aluminum and ABS, stainless steel fasteners
Coating	Epoxy polyester powder painting, RAL9002 color
Mounting	Top mount (OTT)
Transmission	Toothed belt driven
Backlash PTZ	0°
Cable glands	2x M20 + 1x M16
Horizontal rotation (panning)	Endless 360 degrees (uses slip ring)
Vertical rotation (tilting)	-90° (vertical down) to +40° (upwards, above horizon)
Horizontal speed (variable)	From 0.02°/s up to 100°/s
Tilting speed (variable)	From 0.02°/s up to 50°/s
Speed-by-Zoom	Yes, proportional for Optical zoom as well as Digital zoom
Preset accuracy	0.02°
Dimensions (h x w x d)	See drawings for dimensions
Weight	25 kg

Ordering information

TPU230IRv2	TrafficPTZ Full HD PTZ IP camera system, 230Vac, IR
TPTM01	Top Mount (Parapet) bracket for TrafficPTZ camera
TPWM01	Wall Mount bracket for TrafficPTZ camera
TPPM01	Pole Mount bracket for TrafficPTZ camera

Specs

Ordering information

TPCM01

Corner Mount bracket for TrafficPTZ camera

DIMENSIONS IN MM

