



ST-P80TLR-U75 Panoramic Multisensor Tracking Camera

Features:

- Based on the thermal and visible panoramic camera the system detects and tracks multiple target.
- Based on user settings the dual sensor PTZ follows one or multiple targets:
 - o Object is closer to defended area
 - o Object is moving faster toward the defended area
 - o Latest object movement
 - Higher ranked object type (small animal, big animal, small vehicle, big vehicle)
 - o Single object lock, automatic switching between objects
- The dual sensor camera could provide higher detail image of the tracked objects, than the panoramic camera could provide.
- The operator could direct the dual sensor camera out of the panoramic coverage so any area could be checked around the installation point.
- The operator could drive the dual sensor PTZ by selecting any area on the panoramic view.
- The actual covered area of panoramic and PTZ camera is displayed on the map window.

Panoramic Camera Module

Resolution Specification (installation heightt 10m)						
Covered area		From 30 m to 8,860 m (8 ppm)				
Human detection (Detection by operator) distance		23 ppm	3000 m			
Light vehicle detection (Detection by operator) distance		12 ppm	5900 m			
Heavy vehicle detection (Detection by operator) distance		8 ppm	8860 m			
Technical Specification						
Description	Multi-megapixel Auto Back Focus IP camera with 4 pieces of 1" sensor and ICR function for Day/Night switching in weatherproof house with self-cleaning sys-tem with Thermal camera extension					
Resolution for visible camera	80 Megapixel					
Resolution for thermal	2560x1024 pixel					
Frame rate	20 fps at full resolution					
Video compression	JPEG2000 - Wavelet					
Compression engine	MPX24 Signal Processor					
Image sensor	1" WDR 20.48 Megapixel CMOS					
Auto focus	Motorized back focus adjustment					
Scanning system	Progressive, no interlaced scanning					
Shutter type	Electronic rolling shutter (ERS)					
Shutter mode	1/10 - 1/20 000 s, 1/1 s low shutter mode					
Sensitivity	0.02 lux F1.4 Day mode or 0.002 lux F1.4 Night mode					
Gain control	Fix, auto, blur or noise priority					
Backlight compensation	Whole picture or any area selectable					
Field of View	Horizontal: 8° Vertical: 22.5°					
Inputs/Outputs	1 programmable IO connections					
Intelligence	Integrated motion detection - Video Content AnAnalysis Optional					
Ethernet connectionEthernet connection	10 Gbps SFP+ socket					
Network security	1500 bit public-key RSA; User authentication					
Cooling system	Passive heatpipe					

Technical Specification					
Heating system	Active automatic – optional				
Cooling system	Wiper with washer, fluid pump and internal tank				
Approvals	EN 55032:2015/AC:2016, EN 61000-3-2:2014, EN 61000-3-3: 2013, EN 50130-4:2011/A1:2015, IEC/ EN 60529 IP66, IEC 60950-1				
Thermal Sensor					
Image sensor	Uncooled Amorphous Silicon (a-Si) microbolometer				
Sensor resolution	2560 x 1024 pixel @ 20 FPS				
Detector pitch	12 μm				
Spectral response	8 - 14 μm				
Non-conformity correction	1 point with shutter or through lens				
Th	ermal Processing				
Automatic Gain and level	User defined, persistent through power cycles				
Digital zoom & pan	Region of interest; $1x - 4x$				
Picture inversion	Positive / Negative				
Image Mirroring	Horizontal and Vertical image flip				
Image control	Image contrast enhancement Black & White polarity Color tables				
Symbology	256 grayscale and 256 colors				
Mechanical Specification					
Material	User defined, persistent through power cycles				
Digital zoom & pan	Region of interest; 1x – 4x				
Picture inversion	Positive / Negative				
Image Mirroring	Horizontal and Vertical image flip				
Image control	Image contrast enhancement Black & White polarity Color tables				
Symbology	256 grayscale and 256 colors				

Multi-sensor Camera Module

Technical Specification				
Sensor	UFPA, 7-14um spectral response			
Resolution	640*512			
Spectral Response	7 - 14µm			
NETD	40mK (@25+45°C) F4.0			
Pixel Size	17um			
FOV	$24^{\circ} \times 18^{\circ} \sim 8^{\circ} \times 6^{\circ}$			
Spatial resolution	0.68 ~ 0.22 mrad			
Image Processing	Image enhancement: SDE; Color: White hot/Black hot; Digital zoom: 2X, 4X Correction: Integrated internal NUC, external opti- cal NUC Brightness and contrast: AGC, adjustable			
Frame Rate	30 FPS			
Automatic defrosting of the outer lens	Yes			
Frequency	30 Hz			
П	nermal Lens			
Lens Type	Motorized			
Focus Control	Auto / Manual			
Focal Length	25 ~ 75mm - 3X optic zoom			
Detection (2.3m * 2.3m)	6,500 m			
Recognition(2.3m * 2.3m)	2,500 m			
Identification (2.3m * 2.3m)	1,200 m			
Detection (1.8m * 0.6m)	1,800 m			
Recognition (1.8m * 0.6m)	1,000 m			
Identification (1.8m * 0.6m)	4,70 m			
Vis	ible Camera			
Sensor	1/2.8' CMOS auto color to B/W CMOS			
Resolution	1920*1080 2.1 mega pixels			
Lens	8-320 mm, 40X zoom lens			
Focus Control	Auto / Manual			
Preset	255			
Day/Night Mode	Auto, colour, monochrome			
Laser Illuminator	10W laser consumption			

Pan/Tilt				
Load	20 kg			
Range	Pan 0 ~ 360 °, Tilt -45° ~ + 90 °			
Speed	Pan 0.001°/ S ~ 80°/s Tilt 0.001 °/ S ~ 80°/ S			
Precision	0.02°			
Preset	255			
Auto Tracking	Support			
Gyro Stabilization	Support			
Material	Aluminium			
Communication protocol	IP			
	Housing			
Material	Integral aluminum alloy			
Structure	Integral double window			
Connector	Waterproof aviation connector			
Ingress Protection	IP66			
Interface				
Network	1 way RJ45, 10/100 Base-T adaptive			
Communication protocol	Ethernet and RS-422			
Video	Analog composite (PAL o NTSC) Digital (IP video stream H264, ONVIF)			
Protocol	Support TCP/IP, UDP, IPv4/v6; support HTTP, RTP, RTSP, NFS, DHCP, NTP, ONVIF 2.0			
Physical interface	Alloy waterproof aviation plug			

Panoramic Multisensor Tracking Camera

Environmental Specification		
Operating temperature	-40 °C to +65 °C	
Storage temperature	40 °C to +65 °C	
Weight	34 Kg	
Humidity	less than 95%	

ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT





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