SensorTec

ST-IP300MP-R

Real Time, 300 MegaPixel, Wide Angle Day/Night Panoramic Camera

Designed for hot, humid and dusty climate

Description:

SensorTec 300 MP Panorama camera produces hundreds of megapixel large images on which every detail is clearly visible in all lighting conditions. The camera provides wide dynamic range images, have an improved low-light performance and extra high sensitivity. This camera is able to cover large areas with high resolution from a single viewpoint. The panoramic images ensure an expanded view. Operators can continuously observe the whole monitored area on one camera image without redundant or hidden areas. The huge resolution even makes it possible to recognize faces at a large distance.

The camera house is completed with an automatic self-cleaning system that consists of a tank with cleaning liquid, a dispenser system and wipers at every window for the best images.

Features:

- 1" size, CMOS image sensors with extra high-sensitivity
- 300 MP image resolution
- Monitoring vast areas
- Stitched panoramic images with white balance correction
- Synchronized imaging
- 20 FPS at full resolution
- JPEG2000 wavelet-based, visually lossless compression
- 10 Gbps SFP+ socket
- All-metal construction of the camera housing
- Quality glass windows with glass heating
- Automatic self-cleaning system
- Active and passive cooling system

AUTOMATIC DETECTION AND TRACKING BY COMPUTER VISION		
Target	ppm	distance
Human	23 ppm	600 m
Light vehicle	12 ppm	1170 m
Heavy vehicle	8 ppm	1760 m
Airplane	2 ppm	7048 m

Specially Developed Functions in The Software

– Precise panoramic image stitching in the software.
– White balance correction between the stitched camera images.
– Easy zooming on the panoramic image.
– Having multiple zoom windows on a single panoramic image.
– Interactive PTZ control on the panoramic image
– Automatic object tracking - optional
– Object classification- optional
– Geofencing- optional
– Virtual fence
– A user-friendly configuration of the automatic self-cleaning system
– Support for Technical Monitoring, Control and Maintenance System (TMCMS)

TECHNICAL SPECIFICATION	
Description	300 Megapixel panoramic camera 180º with automatic self-cleaning system
Resolution	300 Megapixel
Frame rate	20 fps @ 300 MP
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: 180° Vertical: 45°
Inputs/Outputs	1 programmable IO connections
Intelligence	Integrated motion detection
	Integrated Video Content Analysis - optional
Ethernet connection	10 Gbps SFP+ socket
Network security	1500 bit public-key RSA; User authentication
Cooling system	Passive heatpipe
Heating system	Active automatic – optional
De-icing system	Active – optional
Cooling system	Wiper with washer
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

ELECTRICAL SPECIFICATION	
Power supply	230 V AC
Inrush current	10 A
Current consumption	max. 2 A
Power consumption	150 W + 200 W heating
Operating temperature	-40 °C to 65 °C
Humidity	up to 100% RH (condensing)
Protection classification	IP67
MECHANICAL SPECIFICATION	
Material	Full metal housing
Weight	51 kg (with cameras and lens)
Dimensions (W × D × H)	984 × 708 × 497 mm (with mounting bracket)
Package gross weight	95 kg
Package dimensions (W × D × H)	1115 × 900 × 550 mm

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