ST-RP100LR-VX

100MP, Day/Night,Long Range Panoramic camera

Designed for hot, humid and dusty climate

Product description

The SensorTec Panorama camera produces a hundred of megapixel large images on which every detail is clearly visible in all lighting conditions.

The camera provide 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

- 100 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

SPECIALLY DEVELOPED FUNCTIONS IN THE SENSORTEC CONTROL CENTER

- 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.

- Zone violation detection and immediate alarm.

- Individually compressed frames.

- Special optical filter and picture enhancement algorithm for foggy,

   rainy weather conditions.

- High Dynamic Range (HDR) technology to have visual information in

   both dark and bright areas in the same image.

- A user-friendly configuration of the automatic self-cleaning system.

APPLICATION AREAS:

The 100 MP Panorama camera is the ideal device for the observation of large areas. Therefore it is the core component of many SensorTec surveillance solutions.

• Airport Video Surveillance solution

All landside and airside areas of airports can be monitored easily with the Panorama camera.

• Safe and Smart City solution

Large-scale city squares, parking lots or parks also can be observed with a single panorama camera.

• Border Control Video Surveillance solution

Thanks to the Panorama camera even long stretches of borders and wide areas can be covered.

• Critical Infrastructure Video Surveillance solution

The Panorama camera is reliable so no crucially important activities or incidents go unnoticed.

AUTOMATIC DETECTION AND TRACKING BY COMPUTER		
Target	ppm	distance
Human	23 p	3000 m
Light vehicle	12 p	5900 m
Heavy vehicle	8 ppm	8860 m
Airplane	2 ppm	35400 m

TECHNICAL SPECIFICATION

Description	Multi-megapixel Auto Back Focus IP camera with ten pieces of 1" sensor and ICR function for Day/Night switching in weatherproof house with wiper
Resolution	100 Megapixel
Frame rate	20 fps @ 100 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

TECHNICAL SPECIFICATION

Field of View	Horizontal: 12° Vertical: 22.5°
Inputs/Outputs	1 programmable IO connections
Intelligence	Integrated motion detection
	Video Content Analysis - Optional
Ethernet connection	10 Gbps SFP+ socket
Network security	1500 bit public-key RSA; Use
Cooling system	Active and passive heatpipe
Heating system	Active automatic – optional
Cleaning 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

ELECTRICAL SPECIFICATION

Power supply	230 V AC
Inrush current	5 A
Current consumption	max. 2 A
Power consumption	75 W + 150 W heating
Operating temperature	-40 °C to +55 °C (-40°F to +131°F)
Humidity	up to 100% RH (condensing)
Protection classification	IP67

MECHANICAL SPECIFICATION

Material	Full metal housing
Weight	25 kg (with cameras and lens)
Dimensions (W × D × H)	600 × 603 × 416 mm (with mounting bracket)
Package gross weight	37.5 kg
Package dimensions (W × D × H)	940 × 570 × 790 mm

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