



LOGIPIX ONE 320 MP & 40°

Panorama camera with wiper

The Logipix 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.

KEY FEATURES

- 1" size, CMOS image sensors with extra high-sensitivity
- 320 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 LOGIPIX 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

SPECIFICATIONS**TECHNICAL SPECIFICATION**

Part number	LPAN4V-320040-X
Description	Logipix 320 Megapixel panoramic camera 40° with wiper and washer
Resolution	320 Megapixel
Frame rate	20 fps @ 320 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: 40° Vertical: 22°
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; User authentication
Cooling system	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	110-230 V AC
Power consumption	200 W (+ 250 W heater)
Operating temperature	-40°C to 60°C (-40°F to 140°F)
Humidity	up to 100% RH (condensing)
Protection classification	IP66

MECHANICAL SPECIFICATION

Material	Full metal housing
Weight	49 kg (with cameras and lens)
Dimensions (W × D × H)	973 × 762 × 422 mm (with mounting bracket)
Package gross weight	100 kg including pallet weight
Package dimensions (W × D × H)	1120 × 920 × 710 mm

RELATED COMPONENTS

Logipix NVR

Part number	Description
LNVR4-16-16-I	LNVR 4th gen. 6Ux 405 mmx19" rack, 2x10 GBit SFP+ for cameras and 1x1 Gbit for remote monitoring, 16 hot-swap SATA HDD bay with VCA license
LNVR4-16-16	Logipix NVR 4th gen. for Logipix Panorama and Logipix ONE cameras, 2 port 10Gbit SFP+, 16 HDDs
LNVR4-O-XX	Logipix NVR 4th Outdoor with VCA license

Logipix SOFTWARE

Part number	Description
LAARS	Logipix Airside Augmented Reality Software
LC3S	Logipix Command & Control Center
LHS	Logipix Highway Software
LCC+	Logipix Control Center

APPLICATION AREAS

The 320 MP 40° Panorama camera is the ideal device for the observation of large areas.

- Airport Video Surveillance solution**

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

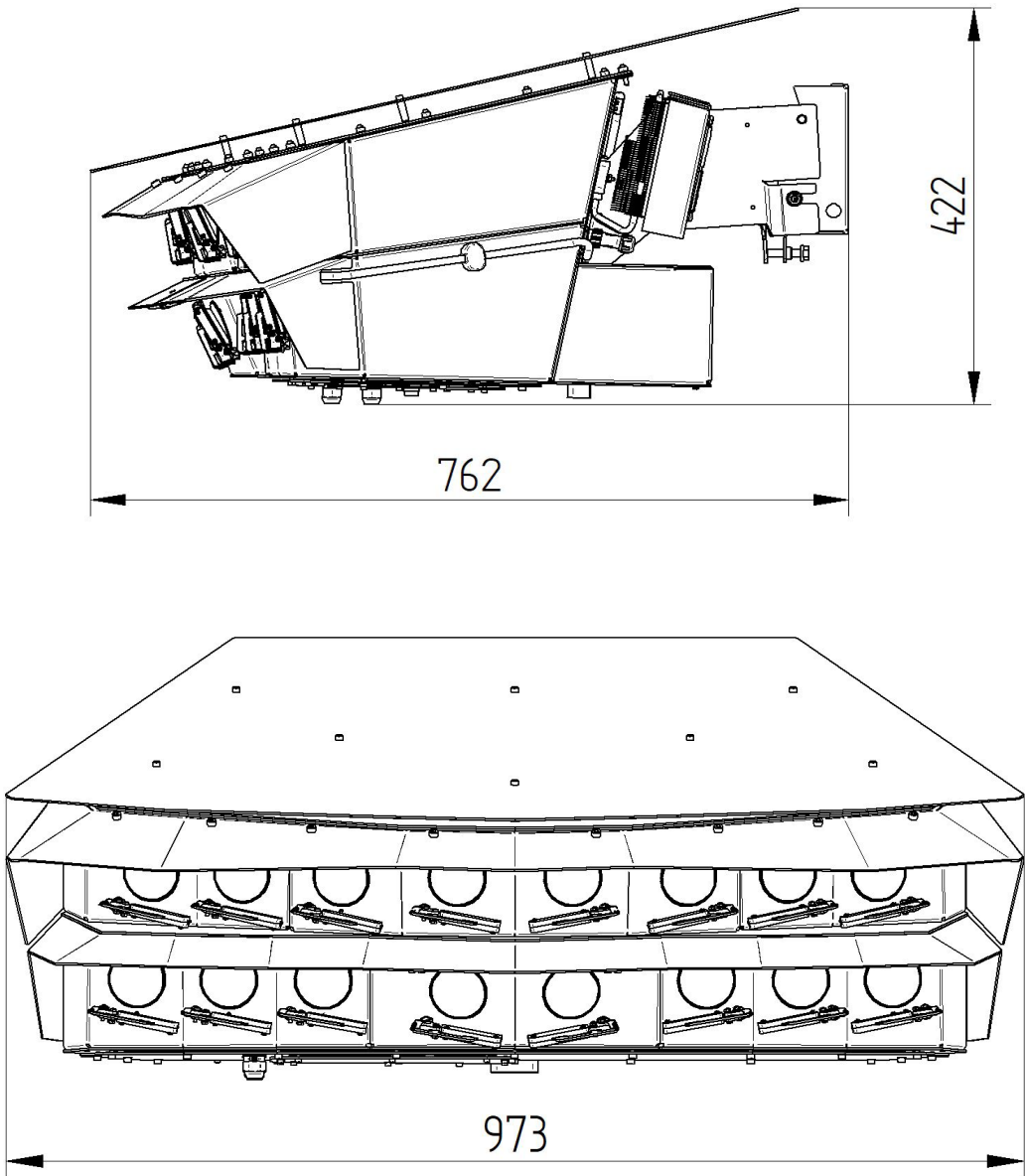
COVERAGE AREA

RESOLUTION SPECIFICATION (INSTALLATION HEIGHT 10M)

AUTOMATIC DETECTION AND TRACKING BY COMPUTER VISION

Covered area	from 30 m to 5,900 m (486 - 12 ppm)	
Human	23 ppm	3,000 m
Light vehicle	12 ppm	5,900 m
Heavy vehicle	8 ppm	8,860 m
Airplane	2 ppm	35,400 m

DIMENSIONS (all values are in mm)



ABOUT US

Logipix Technical Development Ltd. is a privately held company established in 1996 in Budapest, Hungary. Since then, Logipix has grown into an international company that it is today. We are among the most innovative technological companies in the world, developing and manufacturing intelligent video monitoring solutions specifically for large-scale projects and wide areas.

Logipix believes, serving the needs of customers efficiently can only be successful if they receive complete solutions. In order to achieve this, we design and create all the critical components to our solutions, including hardware, software and embedded computer vision. Our entire product range is developed and manufactured in Hungary in accordance with the highest quality requirements.

Our own, specially developed Image Processing Unit, moreover, Logipix Panoramic and Computer Vision Technologies allowed our company to reach new possibilities in video surveillance. Uniquely in the market we provide video analysis on hundreds of megapixel resolution JPEG2000 image streams.

We are proud that we stand among the leading pioneers in this ever-evolving market. We are deeply engaged with the constant research and development to provide complete, intelligent solutions using the latest microelectronic and computer technology available, while considering the various characteristics of different application areas.

CERTIFICATION

Logipix Ltd. operates an ISO 9001:2015 quality management system that covers software and hardware development, along with the entire manufacturing process.

The primary objective of Logipix Ltd. is to win the satisfaction and confidence of its customers within the framework of market competition. This is achieved via the quality of its services, which also includes compliance with the individual requests of customers, which we regard as legitimate even if not stipulated in the contract. We comply with the requirements of society laid out in laws and regulations, and achieve employee satisfaction via the effective and economic organization of their work.

In order to attain its objectives in quality policy, Logipix Ltd. undertakes the obligation to operate a quality management system developed and documented in compliance with the requirements of the MSZ EN ISO 9001:2015 standard.

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