



## LOGIPIX 300 MP 180°

### Panorama camera with self-cleaning

The Logipix 300 MP 180° Visible 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
- 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

**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 - Optional
- A user-friendly configuration of the automatic self-cleaning system
- Support for Technical Monitoring, Control and Maintenance System (TMCMS)

**SPECIFICATIONS**

**TECHNICAL SPECIFICATION**

<b>Part number</b>	LPAN4V-300180-X
<b>Description</b>	Logipix 300 Megapixel panoramic camera 180° with automatic self-cleaning system
<b>Resolution</b>	300 Megapixel
<b>Frame rate</b>	20 fps @ 300 MP
<b>Video compression</b>	JPEG2000 - Wavelet
<b>Compression engine</b>	MPX24 Signal Processor
<b>Image sensor</b>	1" WDR 20.48 Megapixel CMOS
<b>Auto focus</b>	Motorized back focus adjustment
<b>Scanning system</b>	Progressive, no interlaced scanning
<b>Shutter type</b>	Electronic rolling shutter (ERS)
<b>Shutter mode</b>	1/10 - 1/20 000 s, 1/1 s low shutter mode
<b>Sensitivity</b>	0.02 lux F1.4 Day mode or 0.002 lux F1.4 Night mode
<b>Gain control</b>	Fix, auto, blur or noise priority
<b>Backlight compensation</b>	Whole picture or any area selectable
<b>Field of View</b>	Horizontal: 180° Vertical: 45°
<b>Inputs/Outputs</b>	1 programmable IO connections
<b>Intelligence</b>	Integrated motion detection Integrated Video Content Analysis - Optional
<b>Ethernet connection</b>	10 Gbps SFP+ socket
<b>Network security</b>	1500 bit public-key RSA; User authentication
<b>Cooling system</b>	Passive heatpipe
<b>Heating system</b>	Active automatic – Optional
<b>De-icing system</b>	Active – Optional
<b>Cleaning system</b>	Wiper with washer, fluid pump and internal tank
<b>Approvals</b>	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**

<b>Power supply</b>	110-230 V AC
<b>Power consumption</b>	190 W (+ 250 W heater)
<b>Operating temperature</b>	-40°C to 60°C (-40°F to 140°F)
<b>Humidity</b>	up to 100% RH (condensing)
<b>Protection classification</b>	IP66

**MECHANICAL SPECIFICATION**

<b>Material</b>	Full metal housing
<b>Weight</b>	51 kg (with cameras and lens)
<b>Dimensions (W × D × H)</b>	984 × 708 × 497 mm (with mounting bracket)
<b>Package gross weight</b>	99 kg
<b>Package dimensions (W × D × H)</b>	1120 × 900 × 550 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 4 <sup>th</sup> 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 300 MP 180° Panorama camera is the ideal device for the observation of large areas. Therefore it is the core component of many Logipix 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.

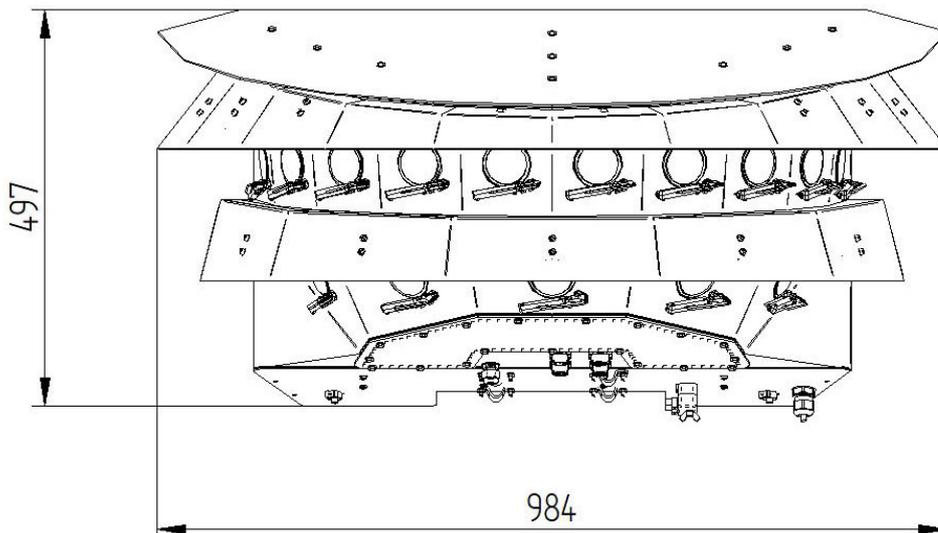
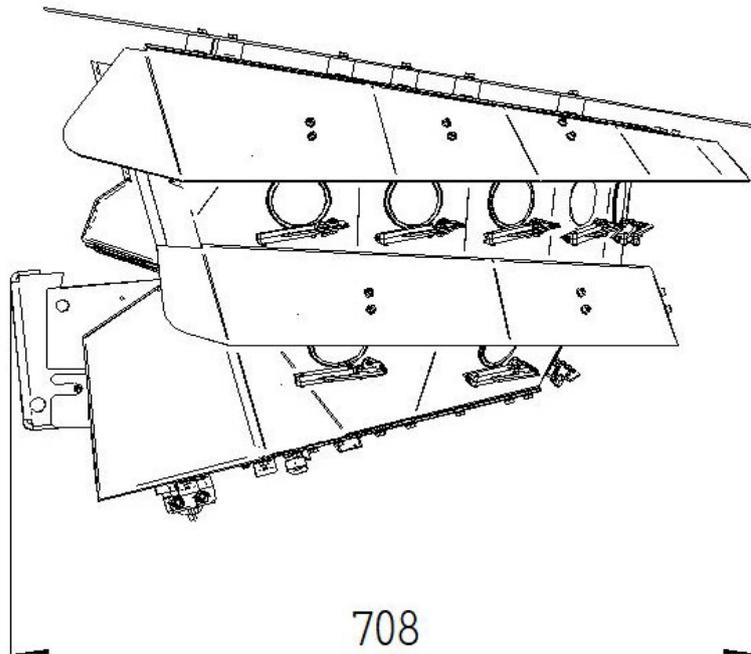
**COVERAGE AREA**

**RESOLUTION SPECIFICATION (INSTALLATION HEIGHT 10M)**

**AUTOMATIC DETECTION AND TRACKING BY COMPUTER VISION**

Covered area	from 10 m to 1,170 m (583 - 12 ppm)	
Human	23 ppm	600 m
Light vehicle	12 ppm	1,170 m
Heavy vehicle	8 ppm	1,760 m
Airplane	2 ppm	7,048 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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