



# LOGIPIX ONE 320 MP

## 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**

<b>Part number</b>	LPAN4-320-02
<b>Description</b>	Logipix 320 Megapixel panoramic camera 40° / with wiper and washer
<b>Resolution</b>	320 Megapixel
<b>Frame rate</b>	20 fps @ 320 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: 40° Vertical: 22°
<b>Inputs/Outputs</b>	1 programmable IO connections
<b>Intelligence</b>	Integrated motion detection 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>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**

Power supply	110-230 V AC
Power consumption	250 W (+ 150 W heater)
Operating temperature	-20°C to +50°C (-4°F to +122°F)
Humidity	0 – 90% non-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	85 kg
Package dimensions (W × D × H)	1110 × 890 × 520 mm

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

Covered area	from 24 m to 5,400 m (12 ppm)	
Face recognition (Automatic identification) distance	360 ppm	81 m
Face recognition (Identification by operator) distance	250 ppm	116 m
Human detection (Detection by operator) distance	25 ppm	2,560 m

**RELATED COMPONENTS**
**Logipix NVR**

Part number	Description
LNVR4-16-16	LNVR 4th gen. 6U x 400 mm x 19" rack, 2x10 GBit SFP+ for cameras and 1x1 Gbit for remote monitoring, 16 hot-swap SATA HDD bay, max. 3 pcs LNVR4-SE-16
LNVR4-16-16-I	LNVR 4th gen. 6Ux 400 mmx19" rack, 2x10 GBit SFP+ for cameras and 1x1 Gbit for remote monitoring, 16 hot-swap SATA HDD bay, max. 3 pcs LNVR4-SE-16-I, with VCA license
LNVR4-16-8-O-02	Logipix NVR 4th Outdoor, IP68 case, 16 cameras, 8 SATA HDD bay, active cooling system, with VCA license

**Logipix SOFTWARE**

Part number	Description
SDB08-CCU	Control Center Ultimate for central monitoring
SVM01-U	Ultimate video monitoring client

**APPLICATION AREAS**

The 320 MP 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.

**DIMENSIONS** (all values are in mm)

