



LOGIPIX ONE 20 MP DAY/NIGHT/IR - 01

The Logipix ONE 20 MP camera was designed to fulfill special requirements. It can cover vast areas and can operate in different lighting conditions.

Thanks to the 1" sensor, the camera has excellent low-light performance, high sensitivity and a resolution that one finds in professional DSLR cameras. The Logipix ONE 20 MP camera produces a 20 FPS video stream at full resolution, therefore any motion in the footage seems continuous. The device uses the visually lossless JPEG2000 wavelet-based compression method, compressing each frame separately. The video stream does not contain predicted frames.

With the high frame rate video stream object tracking and video content analysis can be accurate. With its optional IR Flash the camera is capable of offering sharp and detailed images of the monitored objects even in extreme situations, when only infrared light is useful during the observation.

KEY FEATURES

- 1" size, CMOS image sensor with extra high-sensitivity
- 20 MP resolution
- 20 FPS at full resolution
- Wide Dynamic Range
- Optional external synchronized IR Flash
- Optional radar for speed measurement
- Wavelet-based, visually lossless JPEG2000 compression
- Triple optical filters for different operation modes (IR band suppressed/All band enabled/IR bandpass)
- Automatic switching between Day/Night/IR modes
- Automatic Back Focus
- 1 Gbit LPoE Ethernet port
- 4 external, programmable I/O
- SD slot for firmware update



RESOLUTION SPECIFICATION		
Face recognition (Automatic identification) distance	600 ppm	35 m (LOBJ36 @ 50 mm)
License plate recognition (Automatic) distance	350 ppm	60 m (LOBJ36 @ 50 mm)
Face recognition (Identification by operator) distance	250 ppm	82 m (LOBJ36 @ 50 mm)
Human detection (Detection by operator) distance	25 ppm	820 m (LOBJ36 @ 50 mm)

SPECIALLY DEVELOPED FUNCTIONS IN THE LOGIPIX CONTROL CENTER

Zone violation detection and immediate alarm (in cooperation with a VCA LNVR)

Abandoned object detection and immediate alarm (in cooperation with a VCA LNVR)

Detecting suspicious behaviors and immediate alarm (in cooperation with a VCA LNVR)

Individually compressed frames

Special picture enhancement algorithm for foggy, rainy weather conditions

Real-time camera image stitching to create a panoramic view in case of monitoring large areas, displaying in live and archive mode, zooming as if it were a single image

Remote focus configuration (ABF)

High Dynamic Range (HDR) technology to have visual information in both dark and bright areas in the same image

SPECIFICATIONS

Part number	LPIX20-ONE-DNI-02		
Description	Logipix One 20 Megapixel, 1" IP camera with ABF and 3 optikcal filter D/N/IR 808nm (w/o lens)		
Function	Day - IR band suppressed		
	Night - All band enabled		
	IR - IR bandpass filter for IR Flash, 808nm		
Sensor Resolution	5504 (H) x 3648 (V)		
Frame rate	20 fps @ 20 MP		
Video compression	JPEG2000 - Wavelet		
	MPX24 Signal Processor		
Image sensor	1" color 20 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		
Lens	Standard C mount DC auto/manual IRIS, P-IRIS lens		
Inputs/Outputs	4 programmable IO connections NO, NC / OC 0.5 A/30 V		
Sound	Built-in microphone, 1 ch external 24 kHz/16 bit, sound in/output		
Firmware update	SD card or Network		
Intelligence	Integrated motion detection		
	Video Content Analysis — Optional		
Ethernet connection	1 Gbit / Low Voltage Power over Ethetnet (LPoE)		
Network security	1500 bit public-key RSA; User authentication		
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	LPoE or 10-24 V DC
Power consumption	7.2 W
Operating temperature	-10 °C to + 50 °C (14 °F to +122 °F)
Storage temperature	-10 °C to + 50 °C (14 °F to +122 °F)
Humidity	0 - 90% non-condensing

MECHANICAL SPECIFICATION				
Material	Full metal housing			
Weight	315 g (without lens)			
Dimensions (W × D × H)	53 × 73 × 66 mm (without lens)			
Package gross weight	330 g			
Package dimensions (W × D × H)	68 × 96 × 75 mm			
Master carton gross weight	4 670 g			
Master carton dimensions (W × D × H)	340 × 315 × 135 mm			
Pieces / master carton	12 pcs			

Logipix NVR					
Part number	Description	Description			
LNVR4-10-16		LNVR 4th gen. 6U x 350 mm x 19" rack, 1x10GBit SFP+ for cameras, 1x10GBit SFP+ and 1x1Gbit for remote monitoring, 16 hot-swap SATA HDD bay			
LNVR4-SE-16	LNVR 4 th Storage Ex	LNVR 4th Storage Extender 6Ux 350 mmx19" rack, 2x10 GBit SFP+ for NVR, 16 hot-swap SATA HDD bay			
LNVR4-4-4-0-02	Logipix 4 th Outdoor	Logipix 4 th Outdoor NVR for 4 pcs of Logipix ONE cameras			
LNVR4-8-16-I	Logipix 4 th NVR with	Logipix 4 th NVR with VCA license, 4+4 cameras, 16 hot-swap SATA HDD bay			
LNVR4-8-8-I	Logipix 4 th NVR with	Logipix 4 th NVR with VCA license, 4+4 cameras, 8 hot-swap SATA HDD bay			
Logipix IR FLASH					
Part number	Description	Description			
LPIX-IRF-02	Logipix Varifocal 50	Logipix Varifocal 500W IR Laser Flash for LPIX20-ONE-DNI-02			
Logipix RADAR					
Part number	Description	Description			
LPIX-RAD-02	Logipix 3D multi-la	Logipix 3D multi-lane Radar 76-81GHz			
Logipix LENS					
Part number	Focus	F	Iris	Mount	
LOBJ-14	75 mm	2.8	Manual	С	
LOBJ-31	35 mm	1.4	Manual	С	
LOBJ-32	70 – 200 mm	2.8	P-Iris	С	
LOBJ-36	14 – 50 mm	2.8	Motorized P-Iris	С	
LOBJ-38	8 mm	1.4	Manual	С	
LOBJ-39	170 mm	2.6	P-Iris	С	
LOBJ-40	70 mm	2.6	Manual	С	
LOBJ-41	32-80 mm	2.6	P-Iris	С	
Logipix SOFTWAR	E				
Part number	Description				
SDB08-CC+	Logipix Control Center Professional				
SDB08-CCU	Logipix Control Center Ultimate				



APPLICATION AREAS

Logipix ONE 20 MP camera is one of the key components of the end-to-end Logipix surveillance solutions.

- Traffic Violation Management solution
- Stadium Video Surveillance solution
- Safe and Smart City solution
- City Video Surveillance solution

- Airport Video Monitoring solution
- Border Surveillance solution
- Critical Infrastructure Video Surveillance solution

DIMENSIONS (all values are in mm)





