# **NOVUS**

# 2 MPX High-Speed Dome IP **Camera with Face Recognition, License Plate Recognition and Object Tracking**

NVIP-2SD-4550/18/F



#### FUNCTIONS

























### **KEY FEATURES**

- •Resolution: 2 MPX
- •Lens: motorized varifocal, Al and AF function, optical zoom 18x, f=5 ~ 90 mm/F1.78 ~ 2.86 •D/N function - IR cut filter •Auto Tracking

- •Video content analysis based on Deep Learning
  •Licence plate recognition (LPR)
  •microSD card support
  •WDR with double scan sensor

- •two-way audio •Min. Illumination from 0.003 lx (0 lx, IR on)
- •IR LED, range up to 100 m (depends on current optical zoom value)

### DIMENSIONS



The camera is dedicated to work with NOVUS 4000 series recorders. Detailed data can be found in the compatibility table available in the DOWNLOADABLE FILES tab.

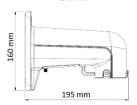
mage	
mage Sensor	2 MPX CMOS sensor 1/2.8" SmartSens
lumber of Effective Pixels	1928 (H) x 1088 (V)
fin. Illumination	0.003 lx/F1.6 - color mode,
	0 Ix (IR on) - B/W mode
lectronic Shutter	auto/manual: 1/5 s ~ 1/20000 s
ligital Slow Shutter (DSS)	up to 1/5 s
Vide Dynamic Range (WDR)	yes (double scan sensor), 120dB
ligital Noise Reduction (DNR)	2D, 3D
lighlight Compensation (HLC)	yes
ack Light Compensation (BLC) eduction of image flicker (Antiflicker)	yes
liqital zoom	yes 16x
-	10X
ens	
Optical Zoom	18x
ens Type	motorized, auto-iris function, f=5 ~ 90 mm/F1.78 ~ F2.86
uto-focus	zoom trigger, day/night mode trigger, manual trigger
OORI	
ORI (Detection, Observation, Recognition, Identification)	for f = 5mm - D: 69m, O: 27.6m, R: 14m, I: 7m for f = 90mm - D: 1241m, O: 496.6m, R: 248m, I: 124m
	for i = 90mm - D: 1241m, O: 496.6m, R: 248m, I: 124m
Pay/Night	
fode	day/night switching: mechanical IR cut filter
witching Mode	auto, manual, time
witching Level Adjustment	yes
isible Light Sensor	yes
letwork	
tream Resolution	1920 x 1080 (Full HD), 1280 x 960, 1280 x 720 (HD), 640 x 480 (VGA), 320 x 240 (QVGA)
rame Rate	30 fps for each resolution
fultistreaming Mode	number of streams: 3 (main stream, sub stream, third stream)
ideo/Audio Compression	H.264, H.264+, H.265, H.265+, MJPEG/G.711
lumber of Simultaneous Connections	max. 3 connections, (max. 14 streams in total)
andwidth	25 Mb/s in total
letwork Protocols Support	HTTP, TCP/IP, IPv4/v6, UDP, HTTPS, FTP, DHCP, DNS, DDNS, NTP, RTSP, UPnP, SNMP, PPPoE, SMTP, HTM RTMP
NVIF Protocol Support	Profile G/S/T/M
	from Edge. Firefox, Chrome, Opera browser
amera Configuration	languages: Polish, English, and others
ompatible Software	NOVUS MANAGEMENT SYSTEM VSS, NOVUS MANAGEMENT SYSTEM AC, N Control 4000
fobile applications	RxCamView (iPhone, Android)
TZ	
reset Commands	255
ours	4 (up to 32 presets per tour)
atterns	4 (max. 512 commands for each pattern)
îlt/Pan Range	-10° ~ 90°/360° (continuous)
an/Tilt Speed	up to 80°/s (proportional to zoom)
reset Speed	up to 120°/s
ideo Analytics	
unctions	auto tracking linked to Video Content Analysis (VCA) functions, tamper, abandoned object, object disappearance, line cross, zone entrance, zone exit, zone violation, multi loiter, pedestrian detection, cocunting, heat map, queue length detection, objects distinguishing, vehicle detection, comparing faces intrusion detection, smart motion detection with objects distinguishing
Other functions	
	video encryption, IEEE 802.1X support, HTTPS support, MAC/IP address filtering, force change of defaul
ecurity	password
rivacy Zones	6 video mask type: single color
lotion Detection	yes
udio Detection	yes
mage Processing	180° image rotation, sharpening, mirror effect
realarm/Postalarm	up to 6 s/up to 30 s
ystem Reaction to Alarm Events	e-mail with attachment, saving file on FTP server, saving file on SD card, alarm output activation, HTTF notification, object tracking

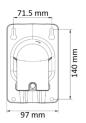




160 mm







Licence plate recognition (LPR)	
Autonomous operation mode	yes - recognition function implemented in the camera
Capacity of License Plate Database	up to 10000 license plates, on all lists.
Types of recognized number plates	all countries of the European Union
Barrier control	yes - built-in relay output
Recommended maximum speed of the vehicle	up to 60 km/h
Data recorded in the camera base	number of recognised licence plate
Reactions for the licence plate recognition	e-mail with attachment, saving file on FTP server, alarm output activation
IR LED	
LED Number	6
Range	up to 100 m (depends on current optical zoom value)
Smart IR	yes (hardware support)
Interfaces	
Video Output	BNC, 1.0 Vp-p, 75 Ohm
Audio Input/Output	1/1
Alarm Input/Output	1 (NO/NC)/1 relay type (max. 12VDC/300mA)
Network Interface	1 x Ethernet - RJ-45 interface, 10/100 Mbit/s
Memory Card Slot	microSD - capacity up to 256GB
Installation parameters	
Dimensions (mm)	160 (Φ) x 276 (H) with bracket: 160 (W) x 376 (H) x 351 (L)
Weight	2.5 kg with bracket: 3.5 kg
Degree of Protection	IP 66 (details in the user's manual)
Enclosure	plastic, white, In set: outdoor housing (integrated with the camera), wall mount bracket Enclosure type: 4SD
Power Supply	12 VDC, PoE+ (IEEE 802.3at, Klasa 4)
Power Consumption	10 W, 19 W (IR illuminator on)
Operating Temperature	-30°C ~ 60°C
Cold start temperature	-35°C
Humidity	max. 90%, relative (non-condensing)

The camera has the ability to autonomously recognize and compare faces, but it can also be part of the face recognition system, working with selected NOVUS 4000 series IP recorders (models with "P" in the name).