



## NVR302-16E-P16-B

SANTEC 4K IP video recorder 16 channel  
NVR with 16 Port PoE (without HDD)

### PRODUCT DESCRIPTION

#### ► Application:

This network recorder of the Uniview-series has an integrated PoE switch. You will have full flexibility thanks to remote control by using the ez View App or the CMS software. The NVR302-16E-P16-B is also able to support cameras with 4K/Ultra HD resolution (IP cameras with up to 12 mP (ULtra HD)). Camera updates can conveniently be made by using the USB port on the recorder. Newly added cameras are automatically detected when connected to the PoE port. This will reduce installation efforts. The recorder is P2P/Cloud capable (ezCloud and ezView App for iPhone, iPad and Android systems).

#### ► Technical specifications:

Type	Network videorecorder
Decoding / Video / Lens	-----
IP video channels (active)	16
Max. Picture resolution (pixel)	UHD 8 MP (3840x2160)
Video codec	(U-)H.265,(U-) H.264, MJPEG
Streaming Method	Unicast / Multicast
Max. frame rate (fps)	1x 4K@30, 2x 4MP@30, 4x 1080p@30
Bit Rate Control	CBR / VBR
Bit Rate per channel	H.265/H.265: 128-16384Kbps
Number of video streams	2 (1x Main, 1x Sub)
Max. Incoming bandwidth	320Mbps
MAx. Outgoing bandwidth	320Mbps
Playback simultaneously (channels)	16
Decoding 1x view (max)	1x 4K(8MP) (25/30 fps)

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► **Technical specifications:**

Decoding 2x view (max)	2x 8MP (25/30 fps)
Decoding 4x view (max)	4x 8MP (25/30fps)
Decoding 8x view (max)	8x 4MP (25/30 fps)
Decoding 16x view (max)	16x 2MP (25/30 fps)
Features	-----
Fisheye camera dewarping	Yes
Automatic delete files	Yes, adjustable days
Camera title	Yes
Privacy zones	Yes
Motion detection	Yes
Tampering Alarm	Yes
Scene change (tampering)	Yes
IVA via ONVIF Motion	No
People counting (IVA+)	Yes
Heatmap (IVA+)	No
Tripwire (IVA)	Yes
Intrusion (IVA)	Yes
Object Apear and disappear (IVA)	No
Fast-Moving (IVA)	No
Crowd Gathering Estimation	No
Loitering detection (IVA)	No
Face detect (IVA)	Yes
Audio detect (IVA)	Yes
Schedule recording	Yes
Alarm recording (dig. input)	Yes, from camera
Motion recording	Yes
Manual recording	Yes
Permanent recording	Yes
Pre-alarm recording	Ja, einstellbar bis zu 60 S.
Post-alarm recording	Yes, adjustable up to 600 s.
Watermark	Yes
Intelligent search criteria	date/time, camra, alarm, motion,IVA
Monitor notification (Popup)	Yes
E-mail notification	Yes
PTZ notification	Yes
Snapshot notification	Yes
Digital output notification	Yes, on-edge (camera)
Password protection	Yes
Log files	Yes
Alarm management	HTTP, FTP, SMTP, ONVIF
Menu languages	German, English and others
Max number of users	128
Schedule	Yes
Edge Recording	Local on desktop

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► **Technical specifications:**

ANR (automatic network reproduction)	Yes (for records)
UPNP support	Yes
Camera update via recorder	Yes
Interface	-----
Number of PoE ports	16
PoE status function	Yes, with power information
PoE standard	IEEE802.3at / IEEE802.3af
Power consumption to PoE standard IEEE802.3af	15,4 watt /channel (all ports in use)
Power consumption to PoE standard IEEE802.3at	30 watt single port
Max. PoE power consumption	240W
Number of Ethernet ports	17
ePoE / Long-Range-PoE	Yes, up to 300m (certain camera models)
Ethernet connector	RJ-45
Ethernet standards	10Base-TX/100Base-TX
Ethernet speed	10 / 100 Mbit
Monitor outputs	HDMI (max. 4K), VGA (max. 2MP)
Spot monitor outputs	No, simultaneous output HDMI/VGA
Max. number of HDDs (internal)	2 x SATA
Max. HDD capacity	20 TB (2x 10 TB)
Internal RAID	No
DVD-RW	No
USB interface	USB 2.0
USB ports	1 x Front, 1 x Backside
RS-232 interface	No
RS-485 interface	No
Control panels (external)	IR remote control / PC mouse
Export interface	USB/network
Audio in-/outputs	Output: 1x RCA, Input: 1x RCA
Switch input contacts	4
Switch output contacts	1
Relay type (output)	Subminiature Relay
Max. switching voltage	125VAC/0,3A, 30VDC/1A
Max. switching power	37,5VA / 30W
SD-card slot	No
eSATA	No
Remote	-----
Management software support	Many VMS
Supported browser	Internet Explorer 11
P2P support	Yes (EZCloud)
Cloud service	Yes, EZCloud UNV
Smartphone App	EZView

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### ► Technical specifications:

Push-Notification	Yes, via mobile app.
Security features	HTTPS, SSL, IP Filter
Supported protocols	P2P, UPnP, NTP, DHCP, PPPoE, SSL, TLS, SNMP, HTTPS
Supported software standards	ONVIF, API
ONVIF version/profile	Profile S, Profile G, C, Q, A, T
Supported software for remote access	Web-Plug-In, APP (iPhone, Android)
<b>General</b>	-----
Housing colour	Black
Housing material	Aluminium / Plastic
Fan	Yes
Voltage	220VAC - 250VAC (50Hz/60Hz)
Max. Power consumption (watt)	9W (without HDD)
Operating temperature (°C)	-10 to +55
Rel. humidity (%)	Max. 90, non-condensing
Dimensions WxDxH (mm)	380 x 315 x 49,1
Weight	2,4 Kg

### ► Note:

Uniview Software, z.B. um die Geräte im Netzwerk zu suchen, finden Sie unter Software bzw. Downloads&Software.

### ► Recommended Accessories

HDD-1000HV	HDD for DVR/NVR, 1 TB SATA 24/7 tested
HDD-2000HV	HDD for DVR/NVR, 2 TB SATA 24/7 tested
HDD-4000HV	HDD for DVR/NVR, 4 TB SATA 24/7 tested
HDD-6000HV	HDD for DVR/NVR, 6TB SATA 24/7 tested
HDD-8000HV	HDD for DVR/NVR, 8TB SATA 24/7 tested