




	NVR NVR301-16X 16 CHANNELS UNIVIEW	NVR NVR304-16S 16 CHANNELS UNIVIEW	NVR TC-R3220 SPEC:J/B/P16/K/V3.1 20 CHANNELS, 16 PoE TIANDY
			
	381.77 CAD 381.77 CAD	1013.37 CAD 1013.37 CAD	1367.17 CAD 1367.17 CAD
Standard	TCP/IP	TCP/IP	IP
Supported resolutions	max. 8.3 Mpx 4K UHD - 3840 x 2160 px	max. 8.3 Mpx 4K UHD - 3840 x 2160 px	max. 8 Mpx
Video outputs	1 pcs HDMI 4K 1 pcs VGA	1 pcs HDMI 4K 1 pcs VGA	1 pcs HDMI 4K 1 pcs VGA
Audio support	16 Channels - Audio from cameras	<ul style="list-style-type: none"> • 16 Channels - Audio from cameras • Bi-directional audio streaming support • Audio detection 	20 Channels - Audio from cameras
Audio inputs	1 pcs CINCH	1 pcs CINCH	1 pcs
Audio outputs	1 pcs CINCH	1 pcs CINCH	1 pcs
Image compression method	Ultra 265 / H.265 / H.264	Ultra 265 / H.265 / H.264	S+265 / H.265 / S+264 / H.264
Supported hard drives	1 x 8 TB SATA	4 x 8 TB SATA	2 x 10 TB SATA
Recording modes	Manual, Motion Detection, Schedule	Manual, Motion Detection, Schedule	Manual, Motion Detection, Schedule
External storage devices backup	Backup to USB drive (pendrive, external drive)	Backup to USB drive (pendrive, external drive)	Backup to USB drive (pendrive, external drive)
Network interface	...	2 x RJ-45 10/100/1000 Base-TX	1 x RJ-45 - 10 / 100 / 1000 Mbps
Searching and playback the records	Records searching: by time and events type. Records playback: forward, backward, fast, slow Advanced searching (to the one second accuracy) Records playback from max. 16 channels in the same time 1/4/6/8/9/16 channel synchronous playback	Records searching: by time and events type. Records playback: forward, backward, fast, slow Advanced searching (to the one second accuracy) Records playback from max. 16 channels in the same time	<ul style="list-style-type: none"> • Records searching: by time and events type. Records playback: forward, backward, fast, slow • Advanced searching (to the one second accuracy) • max. 16 channel synchronous playback
Bitrate	max. 64 Mbps	max. 160 Mbps	max. 160 Mbps
Network functions	Full support via network, Remote records copying, Web-Server built-in max. 128 on-line users Cloud update	Full support via network, Remote records copying, Web-Server built-in max. 128 on-line users	Full support via network, Remote records copying, Web-Server built-in
Network protocols	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP, ONVIF	TCP/IP, P2P, UPnP, NTP, DHCP, PPPoE, HTTP, HTTPS, DNS, DDNS, SNMP, SMTP	...
ONVIF	✓	✓	✓
Default IP address	DHCP or 192.168.1.30	DHCP or 192.168.1.30	192.168.1.3
Default admin user / password	admin / 123456	admin / 123456	admin / - The administrator password should be set at the first start
Web browser access ports	80, 554	80, 554	80, 443, 3000, 3001, 3002, 23002
PC client access ports	Port no.: 80 or access by a cloud (P2P) - PC: Free application EZStation	Port no.: 80 or access by a cloud (P2P) - PC: Free application EZStation	3000, 3001
Access from PC	Port no.: 3000 or access by a cloud (P2P) - PC: Free application Easy7 Smart Client Express
Mobile client access ports	80	80	3000, 3001

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Mobile phones support	Port no.: 80 or access by a cloud (P2P) • Android: Free application EZView • iOS (iPhone): Free application EZView	Port no.: 80 or access by a cloud (P2P) • Android: Free application EZView • iOS (iPhone): Free application EZView	Port no.: 3000 or access by a cloud (P2P) • Android: Free application EasyLive Plus • iOS (iPhone): Free application EasyLive Plus
RTSP URL	rtsp://192.168.1.30:554/unicast/c1/s0/live - Main stream rtsp://192.168.1.30:554/unicast/c1/s1/live - Sub stream	rtsp://192.168.1.30:554/unicast/c1/s0/live - Main stream rtsp://192.168.1.30:554/unicast/c1/s1/live - Sub stream	rtsp://user:password@192.168.1.3:554/1/1 - Main stream rtsp://user:password@192.168.1.3:554/1/2 - Sub stream
Serial ports	...	—	...
Alarm inputs / outputs	—	—	4 / 1
PTZ control	PTZ Uniview cameras	PTZ Uniview cameras	...
USB	• 1 x USB 2.0 • 1 x USB 3.0	2 x USB 2.0 1 x USB 3.0	2 x USB 2.0
Motion Detection	✓	✓	✓
Intelligent image analysis	✓	✓	—
Switch PoE	16-port PoE Switch built-in, 30 W / Channel - PoE
Main features	<p>Functions implemented in cooperation between the recorder and cameras that support these functions</p> <ul style="list-style-type: none"> • Corridor mode - useful for monitoring corridors, entrance gates and narrow rooms • Motion Detection • Audio detection • IVS analysis : crossing the line (tripwire), intrusion, detection of entry into the area / exit from the area, scene changing, abandoned/missing object, face detection, counting people in a given area 	<p>Functions implemented in cooperation between the recorder and cameras that support these functions</p> <ul style="list-style-type: none"> • Intelligent image analysis : crossing the line (tripwire), intrusion, entering the marked area, leaving the marked area, scene changing, abandoned/missing object, objects tracking, people counting, crowd gathering estimation • Motion detection with human/vehicle silhouette recognition • Corridor mode - useful for monitoring corridors, entrance gates and narrow rooms • VIDEO signal loss alarm • ANR - Automatic Network Replenishment allows to save image to the card when the network connection with DVR is break (network failure) and next synchronize its 	<p>Support for Intelligent Image Analysis function, available in TIANDY cameras :</p> <ul style="list-style-type: none"> • crossing the line (tripwire) • double crossing the line • abandoned/missing object • detection of loitering in a given area • running • parking detection • heat map • detection of people gathering • protective helmet detection • detection of persons on duty • signal loss indication • detection of persons on duty • people counting • face detection
Maximum total switch load	200 W
Mouse support	✓	✓	✓
IR remote controller in the set	—	—	—
Power supply	12 V DC / 2 A (power adapter included)	12 V DC / 5 A (power adapter included)	100 V ... 240 V AC
Power consumption	...	max. 15 W (without HDD)	...
Operation temp	...	-10 °C ... 55 °C	...
Weight	0.91 kg	3.19 kg	3.07 kg
Dimensions	260 x 247 x 47 mm	440 x 352 x 50 mm	440 x 284 x 47 mm
Country of origin	China
Supported languages	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovak, Italian	Polish, English, Czech, French, Spanish, Dutch, German, Portuguese, Slovak, Italian	Polish, English, Albanian, Arabic, Spanish, Korean, Italian, Russian, Thai, French, Dutch, Hebrew, Vietnamese, German, Ukrainian, Portuguese
Manufacturer / Brand	UNIVIEW	UNIVIEW	TIANDY
Guarantee	3 years	3 years	3 years

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