Comparison of VioStor NVR Series

Product Photo				
NVR Model	VS-12164U-RP/12156U-RP/ 12148U-RP/12140U-RP Pro+	VS-8148U-RP/8140U-RP/ 8132U-RP/8124U-RP Pro+	VS-8148/8140/8132/8124 Pro+	VS-6120/6116/6112 Pro+
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded
Max. number of supported IP cameras/channels (recording)	64/56/48/40	48/40/32/24	48/40/32/24	20/16/12
Video server support	Yes	Yes	Yes	Yes
High-definition local display	Yes	Yes	Yes	Yes
Multi-server monitoring	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)
Video compression (IP camera)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)
Max. network throughput tested [1]	450 Mbps	400 Mbps	400 Mbps	330 Mbps
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)
Multi-view playback	16-view	16-view	16-view	16-view
Intelligent video analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes
Max. number of hard drives supported [2]	12 x 3.5-inch SATA, 2.5-inch SATA, SSD	8 x 3.5-inch SATA, 2.5-inch SATA, SSD	8 x 3.5-inch SATA, 2.5-inch SATA, SSD	6 x 3.5-inch SATA, 2.5-inch SATA, SSD
Max. raw capacity	48TB (12 x 4TB hard drives)	32TB (8 x 4TB hard drives)		24TB (6 x 4TB hard drives)
RAID	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare			
Processor	Dual-core Intel® 3.3GHz CPU	Dual-core Intel® 3.3GHz CPU	Dual-core Intel® 3.3GHz CPU	Dual-core Intel® CPU
LCD panel	---	Yes	Yes	Yes
Number of Gigabit LAN ports	4	4	2	2
Number of USB ports	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 5 x USB 2.0
Redundant power supply	Yes	Yes	---	---
Hardware dimensions (HxWxD)	88 x 439 x 520 mm/ 3.46 x 17.28 x 20.47 inch	88 x 439 x 520 mm/ 3.46 x 17.28 x 20.47 inch	217.5 x 327 x 321.2 mm/ 8.56 x 12.8 x 12.65 inch	175 x 257 x 235 mm/ 6.89 x 10.12 x 9.25 inch
Gross weight	22.92Kg /50.53lb	20.76Kg /45.78lb	13.98Kg /30.79lb	6.96Kg /15.34lb

Product Photo				
NVR Model	VS-4016U-RP/ 4012U-RP/4008U-RP Pro	VS-4116/4112/4108 Pro+	VS-2112/2108/2104 Pro+	VS-2008L/2004L
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded
Max. number of supported IP cameras/channels (recording)	16/12/8	16/12/8	12/8/4	8/4
Video server support	Yes	Yes	Yes	Yes
High-definition local display	Yes	Yes	Yes	---
Multi-server monitoring	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)
Video compression (IP camera)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)	H.264, MPEG-4 & M-JPEG (depending on the camera models)
Max. network throughput tested [1]	176 Mbps	250 Mbps	180 Mbps	28 Mbps
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes
Multi-view playback	16-view	16-view	16-view	16-view
Intelligent video analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes
Max. number of hard drives supported [2]	4 x 3.5-inch SATA, 2.5-inch SATA, SSD	4 x 3.5-inch SATA, 2.5-inch SATA, SSD	2 x 3.5-inch SATA, 2.5-inch SATA, SSD	2 x 3.5-inch SATA
Max. raw capacity	16TB (4 x 4TB hard drives)		8TB (2 x 4TB hard drives)	6TB (2 x 3TB hard drives)
RAID	RAID 0, 1, 5, 5+hot spare, 6		RAID 0, 1	
Processor	Dual-core Intel® Atom™	Dual-core Intel® CPU	Dual-core Intel® CPU	Marvell 1.2 GHz
LCD panel	---	Yes	---	---
Number of Gigabit LAN ports	2	2	2	1
Number of USB ports	5 x USB 2.0	2 x USB 3.0 5 x USB 2.0	1 x USB 3.0 4 x USB 2.0	3 x USB 2.0
Redundant power supply	Yes	---	---	---
Hardware dimensions (HxWxD)	44 x 439 x 499 mm/ 1.73 x 16.97 x 19.65 inch	177 x 180 x 235 mm/ 6.97 x 7.09 x 9.25 inch	150 x 102 x 216 mm/ 5.91 x 4.02 x 8.5 inch	165.5 x 85 x 218.4 mm/ 6.52 x 3.35 x 8.60 inch
Gross weight	12.06Kg /26.59lb	5.58Kg /12.30lb	3.68Kg /8.11lb	1.9Kg /4.19 lb

[1] Based on QNAP's laboratory tests. Actual performance may vary depending on the network environments.
[2] The standard system is shipped without hard disk drives.

www.qnapsecurity.com

P/N: 51000-023174-RS
201301 (ENG)NO.5