

Help me Choose a VioStor NVR

The VioStor NVR comes in a full range of product spectrum from 2-bay to 12-bay, supporting from 4 to 64 channels. The VioStor NVR fulfills all kinds of surveillance deployment needs.

To learn more about QNAP VioStor NVR, please feel free to contact us by email.

NVR Selector



QNAP provides an easy-to-use NVR Selector to help you choose an ideal VioStor that meets your requirement of storage capacity and bandwidth.

Compatible IP Camera



QVR is compatible with over 3,000 IP camera models of over 100 brands and ONVIF specifications. Please check the compatibility of any IP camera models in our compatibility list.

Purchase Camera License



You can add extra recording channels, please contact authorized distributors for detail. Or, you can contact QNAP Security (<http://www.qnapsecurity.com/SalesInquiry.aspx>) for information on authorized distributors*.

More QNAP Products



To learn more about QNAP VioStor products, please visit www.qnapsecurity.com

Helpdesk



If you encounter any problems when using QNAP VioStor products, please contact our helpdesk.

* If contacting an authorized reseller, please provide the following part numbers for the respective license :
1 channel license : LIC-CAM-NVR-1CH, 2 channel license : LIC-CAM-NVR-2CH, 4 channel license : LIC-CAM-NVR-4CH

Comparison of VioStor NVR Series

Product Photo	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+	VS-4116U-RP/4112U-RP/4108U-RP Pro+
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded
Number of supported IP cameras (recording) (1)	64/56/48/40 (Max. 64CH)	48/40/32/24 (Max. 48CH)	48/40/32/24 (Max. 48CH)	20/16/12 (Max. 20CH)	16/12/8 (Max. 16CH)
Video server support	Yes	Yes	Yes	Yes	Yes
High-definition local display	HDMI/ VGA output	HDMI/ VGA output	HDMI/ VGA output	HDMI output	HDMI output
Total Frames Per Second (FPS) (2)	1920FPS / 1080P	1440FPS / 1080P	1440FPS / 1080P	600FPS / 1080P	480FPS / 1080P
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)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)
Max. network throughput tested (3)	450 Mbps	400 Mbps	400 Mbps	330 Mbps	250 Mbps
Megapixel recording	Yes (up to 10-megapixel)	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	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	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes	Yes
Max. number of hard drives supported (4)	12 x 3.5-inch SATA	8 x 3.5-inch SATA	8 x 3.5-inch SATA	6 x 3.5-inch SATA	4 x 3.5-inch SATA
Max. raw capacity	72TB (12 x 6TB hard drives)	48TB (8 x 6TB hard drives)	48TB (8 x 6TB hard drives)	36TB (6 x 6TB hard drives)	24TB (4 x 6TB hard drives)
RAID	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare, 10, 10+hot spare	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare, 10, 10+hot spare	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare, 10, 10+hot spare	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare, 10, 10+hot spare	RAID 0, 1, 5, 5+hot spare, 6, 10
Processor	Quad-core Intel® 3.7GHz CPU	Dual-core Intel® 3.3GHz CPU	Dual-core Intel® 3.3GHz CPU	Dual-core Intel® 2.6GHz CPU	Dual-core Intel® 2.6GHz CPU
Number of Gigabit LAN ports	4	4	2	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	2 x USB 3.0 3 x USB 2.0
Redundant power supply	Yes	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	44 x 439 x 499 mm/ 1.73 x 16.97 x 19.65 inch
Gross weight	22.92Kg /50.53lb	20.76Kg /45.78lb	13.98Kg /30.79lb	6.96Kg /15.34lb	13.5Kg /29.76lb

Product Photo	VS-4116/4112/4108 Pro+	VS-2212/2208/2204 Pro+	VS-2112/2108/2104 Pro+	VS-2108L/2104L	VS-S2212/S2208/S2204 Pro+
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded	Linux
Number of supported IP cameras (recording) (1)	16/12/8 (Max. 16CH)	12/8/4 (Max. 12CH)	12/8/4 (Max. 12CH)	8/4 (Max. 8CH)	12/8/4 (Max. 12CH)
Video server support	Yes	Yes	Yes	Yes	Yes
High-definition local display	HDMI output	HDMI output	HDMI output	---	HDMI output
Total Frames Per Second (FPS) (2)	480FPS / 1080P	360FPS / 1080P	360FPS / 1080P	240FPS / 1080P	360FPS / 1080P
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)	H.264, MPEG-4, M-JPEG & MxPEG (depending on the camera models)
Max. network throughput tested (3)	250 Mbps	180 Mbps	180 Mbps	40 Mbps	180 Mbps
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes	Yes (up to 10-megapixel)
Multi-view playback	16-view	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	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes	Yes
Max. number of hard drives supported (4)	4 x 3.5-inch SATA	2 x 3.5-inch SATA	2 x 3.5-inch SATA	2 x 3.5-inch SATA	2 x 2.5-inch SATA
Max. raw capacity	24TB (4 x 6TB hard drives)	12TB (2 x 6TB hard drives)	12TB (2 x 6TB hard drives)	12TB (2 x 6TB hard drives)	8TB (2 x 4TB hard drives)
RAID	RAID 0, 1, 5, 5+hot spare, 6, 10	RAID 0, 1	RAID 0, 1	RAID 0, 1	RAID 0, 1
Processor	Dual-core Intel® 2.6GHz CPU	Quad-core Intel® 2.0GHz CPU	Dual-core Intel® 2.6GHz CPU	Marvell 1.6 GHz	Quad-core Intel 1.9GHz CPU
Number of Gigabit LAN ports	2	2	2	1	2
Number of USB ports	2 x USB 3.0 5 x USB 2.0	3 x USB 3.0	1 x USB 3.0 4 x USB 2.0	1 x USB 2.0 2 x USB 3.0	3 x USB 3.0
Redundant power supply	---	---	---	---	---
Hardware dimensions (HxWxD)	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	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	200 x 136 x 39 mm
Gross weight	5.58Kg /12.30lb	2.92 kg /6.44lbs	3.68Kg /8.11lb	1.9Kg /4.19 lb	0.95Kg/2.09lb

Notes:

(1) Based on the model, the VioStor NVR comes with a different number of free channels. To add extra recording channels, please contact authorized distributors for detail. Or, you can contact QNAP Security (<http://www.qnapsecurity.com/SalesInquiry.aspx>) for information on authorized distributors.

(2) The result is based on resolution 1280 x 720.

(3) Based on QNAP's laboratory tests. Actual performance may vary depending on the network environments.

(4) The standard system is shipped without hard disk drives.

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