The NMX-NVR-N6123 is a network video recorder (NVR) designed to record hours of high-resolution, HD content over an Ethernet LAN. The N6123 is compatible with most N-Series video-over-IP products and attaches to the video network at any point. The unit records from an N-Series Encoder or Windowing Processor, and then uses a Decoder of that same N-Series for playback. Recordings can be converted to MP4 files for easy transfer to other systems. Each video stream is recorded and played back at its original resolution.

The N6123's recording and playback durations reflect the compression capabilities of the Encoder/Decoder used. For example, the economical N1000 Series is an in-room solution and offers no compression, while the N3000 Series provides H.264 advanced video compression. The following tables provide detailed guidelines on the recorded files captured on the N6123 (and the related file conversions) listed by the N-Series product used as a source. Keep in mind that these are guidelines only and can vary with network design and unit settings.

NOTE: Please consider the following exceptions when designing your system:

- *With the exception of the N3000 Series, you can also convert recordings to MOV files.*
- *HDCP (High-Bandwidth Digital Content Protection) content cannot be converted. Encrypted N3000 streams cannot be converted. Unencrypted N3000 streams can be converted to MP4 files only.*
- *The conversion values in Tables 1 and 2 are based on the conversion rate being set to the default value (7500 kbps). Adjusting this setting will decrease or increase the converted file size.*
- *All values given are based on recordings that were done in standard mode (not in extreme quality).*

TABLE 1 Recording/Conversion Data Based on Series (1 hour recording with a 720p input resolution)

N-Series Product	Recording Size on NVR	Recording Space on NVR	Conversion Time	Converted File Size
N1122/N1133/ N1115 (MPC)	235 GB	8.5 hours	123 minutes	3.47 GB
N1111/N1122/ N1133/N1115 (Non-MPC)	419 GB	4.7 hours	136 minutes	3.47 GB
N2121/N2122/ N2510	18 GB	110 hours	83 minutes	3.46 GB
N2135/N2143	18 GB	110 hours	83 minutes	3.46 GB
N3121/N3122	4 GB	500 hours	3.5 minutes	3.64 GB
N2151	26.5 GB	75 hours	107 minutes	3.38 GB

TABLE 2 Recording/Conversion Data Based on Series (1 hour recording with a 1080p input resolution)

N-Series Product	Recording Size on NVR	Recording Space on NVR	Conversion Time	Converted File Size
N1122/N1133/ N1115 (MPC)	339 GB	5.9 hours	200 minutes	3.46 GB
N1111/N1122/ N1133/N1115 (Non-MPC)	315 GB	6.5 hours	201 minutes	3.47 GB
N2121/N2122/ N2510	13.6 GB	146 hours	83 minutes	2.15 GB
N2135/N2143	40 GB	49 hours	182 minutes	3.46 GB
N3121/N3122	4.5 GB	444 hours	3 hours, 27 minuts	4.09 GB
N2151	51 GB	39.5 hours	201 minutes	3.4 GB

TABLE 3 Recording/Conversion Data Based on Series (1 hour recording with a 4K input resolution)

N-Series Product	Recording Size on NVR	Recording Space on NVR	Conversion Time	Converted File Size
N2151	65 GB	30 hours	357 minutes	3.38 GB

NOTE: The values in Table 3 are based on 4K30 input resolution (3840x2160@30Hz).

TABLE 4 Number of Recording and Playback Streams

Stream Source	Number of Channels	Recording Streams	Playback Streams
N1111/N1122/ N1133/N1115	1	1	1
N2121/N2122	1	2 (dual)[1]	2 (dual)[1]
N2135/N2143	1	1	1
N3121/3122	10	10[2]	10[2]
N2151	1	1	1
N2412	1	1	1

[1] N2121/N2122 Encoders have a single channel that allows for single or dual channel recording and playback. A dual recording has both streams in one file and can be converted to separate MPEG files.
[2] Recording and playback channels can be synchronously started using a hold and release mechanism.

TABLE 5 Time to Copy from one NVR to another NVR

Network Type	Time to Transfer 1 GB
1 GB	45.2 seconds[1]

[1] Approximate time. Network usage can lower the transfer rate.

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