

## Features

- High-performance Intelligent Network Video Recorder
- Compatible with:
  - C and S-series codecs/video servers
  - Minidomes and high-speed domes
- 16, 32 or 64-stream input and up to 32-stream output
- High-density RAID 5 storage with SNMP support and hot-swappable hard disks
- Redundant power supply option



## Description

The Siquira® i-NVR+ Elite complements the Siquira® IP surveillance portfolio with a cost-effective, highly reliable rack-mount video storage solution. In combination with the supplied Operator Storage or MX™ SDK, the i-NVR+ Elite forms an essential part of the video surveillance application for storing and retrieving vital video information. It fully supports the video streams of Siquira® S- and C-series video codecs and servers and Siquira® IP cameras. For other IP cameras please contact Siquira.

### Reliable Storage and Retrieval

The i-NVR+ Elite supports scheduled background recording in a FIFO cyclic buffer and alarm track recording with configurable pre and post-event duration. Tracks can be retrieved based on camera name, time/date, event, and user-definable bookmarks. Exported files are watermarked with a checksum to ensure content integrity. The i-NVR+ can simultaneously handle background recording of 64 streams, retrieving of up to 32 tracks, and event-driven recording while executing all management tasks. The i-NVR+ operates without the need for a central server or storage manager, thus eliminating the risk of a single point of failure in complex networks.

### Industrial Design

The mechanical housing is a 2HU or 4HU industrial 19" housing with 8 respectively 16 hot-swappable hard disk slots. All mechanical and electrical components are selected for their reliability and optimal performance for 24/7 operation. The storage is built in a RAID-5 configuration to ensure data protection even in the event of single hard disk failure. In case of a disk failure, the RAID configuration can be rebuilt online, without performance degradation of i-NVR+ functionality.

## Ordering Information

Model	Description
i-NVR+ Elite (xxxx)-16*	16-channel RAID-5 Network Video Recorder
i-NVR+ Elite (xxxx)-32*	32-channel RAID-5 Network Video Recorder
i-NVR+ Elite (xxxx)-64*	64-channel RAID-5 Network Video Recorder
i-NVR+ Elite (xxxx)-xx /H*	Hardware dongle instead of software license (Operator Storage)
i-NVR+ Elite (xxxx)-xx /R*	Siquira i-NVR+ with redundant hot-swappable power supply
i-NVR+ KDM-17"	17" LCD monitor with keyboard and mouse
i-NVR+ KDM-19"	19" LCD monitor with keyboard and mouse

\* Replace (xxxx) in the model number with the desired type. For available types, refer to the Storage chart on the next page. Also see the Mechanical dimensions; machines differ in size when storage goes over 8 TB. Power supplies and hard disks in hot-swap trays are available.

# i-NVR+ Elite

## Technical specifications

# Modular Network Video Recorder

### Video

Number of input streams(D1@30fps, 7.5 Mb/s max)

i-NVR+ Elite xxxx-16	up to 16 streaming video inputs (480 fps) + 16 contact closure inputs
i-NVR+ Elite xxxx-32	up to 32 streaming video inputs (960 fps) + 32 contact closure inputs
i-NVR+ Elite xxxx-64	up to 64 streaming video inputs (1020 fps) + 64 contact closure inputs

Number of output streams

i-NVR+ Elite xxxx-16	up to 16 streaming video outputs + 16 contact closure outputs
i-NVR+ Elite xxxx-32	up to 32 streaming video outputs + 32 contact closure outputs
i-NVR+ Elite xxxx-64	up to 64 streaming video outputs + 64 contact closure outputs

Device/stream compatibility

C-series encoders and decoders  
S-series video servers and decoders  
Minidomes and high-speed domes  
Supports unicast and multicast streams

Maximum recording/playback stream rate

7.5 Mbit/s per stream

Supported streams

MPEG-2 I frame only, MPEG-4, and H.264 IP frames

### Storage

i-NVR+ Elite type:	Storage Capacity	Disk configuration	Net Storage
2500-32/-64	2500 GB	4+1	1920 GB
3500-32/-64	3500 GB	6+1	2920 GB
5250-32/-64	5250 GB	6+1	4420 GB
7000-32/-64	7000 GB	6+1	5920 GB
8000-32/-64	8000 GB	7+1	6920 GB
9750-32/-64	9750 GB	12+1	8920 GB
10500-32/-64	10.5 TB	13+1	9670 GB
12000-32/-64	12 TB	11+1	10920 GB
16000-32/-64	16 TB	15+1	14920 GB
24000-16/-32/-64	24 TB	7+1	20920 GB
24000-16/-32/-64	24 TB	15+1-	21920 GB

### Security

Authorization	Multilevel password protection
Logging	User activity
Image authentication	Checksum
Source authentication	Audit trail in stream

### Software

Operating system	Windows XP professional
Graphical user interface	Sigura <sup>®</sup> Operator Storage <sup>™</sup> , needs to run on a separate viewing PC

### Events scheduling

Event triggers	Intelligent video motion detection External alarm/event triggers from encoders/servers/cameras (Contact Closures, VMD) Optional Intelligent Scene Analysis (ISAS) Optional Automatic Number Plate Recognition (ANPR)
----------------	---

Transmission

10/100/1000 MB Ethernet

Export/import media

CD/DVD writer/player  
USB memory stick

### Network Management & Control

Management/configuration	MX <sup>™</sup> Configuration Toolkit 2.3 and higher; MX <sup>™</sup> SDK 1.7 and higher.
SNMP	RAID-5 controller; hard disk integrity

### Powering

Power supply	230 VAC (/EU) or 115 VAC (/US)
Power consumption	120W + 10W/HDD (180W + 10W/HDD for /R versioni)

### Environmental

Operating temperature	+32° F to +104° F (0° C to +40°)
Recommended temperature range	+50° F to +86° F (+10° C to +30° C)
Relative humidity	<95% as long as there is no condensation



The quality management system utilized in the development, production, sales and support of this product is ISO 9001:2008 certified by LRQA.

© Sigura Version: April 2011 V1.5 (First Edition) – Subject to modification



member of the TKH Group