



Garantir Network Video Recorder is designed for use within a surveillance system and performs recordings and playbacks pictures from network cameras in the system. It is a 128-channel network video recorder (NVR) for SMB/Enterprise applications. It provides uninterrupted recording also in full frame rate 4K resolution for all channels. It is possible to perform the settings/configuration or operate the NVR using a web browser installed on a PC connected to a network and live videos can be viewed on major mobile devices through its web browser and recorded video can be played back from remote site by a PC.

Garantir NVR is compatible with most major brand cameras and its ability to automatically search and find the available cameras on the network can greatly reduce the user's effort when configuring the system.

### Key Features

- 3U Rack mountable Housing Design
- Support up to 8MP (4K) IP camera Input IP Camera Input
- Built in 16 Hard disk bays (Hot Swappable) with SATA interfaces.
- High Quality Live/ Playback Video
- Built-in HDMI with 4K Resolution
- Supports up to 16x Digital Zoom
- Supports ONVIF and RTSP Protocols
- Gigabit Network Interfaces
- Support ANR Function
- Two-way Audio
- Mobile Devices Remote Monitoring
- Backup Recorded Video to USB HDD
- Support Advanced Video analytics features.
- Support Smart recording, Smart Search and Smart Playback
- Supports mobile streaming on Android, windows and iPhone.

EMBEDDED NETWORK VIDEO RECORDER	
Parameters	Specifications
Application	Indoor Rack Mountable
Main Processor	Quad Core Embedded Processor
Operating System	Embedded Linux
<b>Video &amp; Audio</b>	
IP Video Input	128-Channel
Throughput	400Mbps (Incoming) / 200Mbps (Outgoing)
HDMI 1 Output	4K (3840×2160), 2560×1600, 2K (2560×1440), 1920×1080, 1440×900, 1366×768, 1280×800, 1280×720, 1024×768, 800×600
HDMI 2 Output	1920×1080, 1440×900, 1366×768, 1280×800, 1280×720, 1024×768, 800×600
VGA 1 Output	1920×1080, 1440×900, 1366×768, 1280×800, 1280×720, 1024×768, 800×600
Audio Output	2-ch, 3.5mm & BNC
Two-way Audio	1-ch (using the input 3.5 mm)

Split Screen Matrix	Multiple options with 1/3/4/6/8/9/10/13/16/20A/20B/25/32/36/40/64
Security	Video Encryption (AES)
OSD Support	Title/ Week/ Date/ Time/ Text (option of different colours & sizes)
<b>Decoding &amp; Monitoring</b>	
Decoding Format	Smart H.265/ H.265/ Smart H.264/ H.264
Recording Resolution	12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF
Synchronous Playback	16-ch at 720P/1080P
Decoding Capability	4-ch@8 MP/16-ch@1080p
Audio Compression	G.711ulaw/G.711alaw
Video Bit Rate	32 kbps to 16 Mbps per channel with CBR & VBR support
Audio Bit Rate	8 kbps to 48 kbps
Recording Type	Manual, Continuous (24x7), Schedule, Alarm & Alert based, ANR (file size can be configure based on file size or recording time)
Pre/Post Record	Supported, Pre Record time: 5~60 sec, Post Record time: 10~600 sec
Live View Options	Stream selection, Split screen, Alarm, Snapshot, Record, Mic, Audio Volume adjustment, Full screen, Digital zoom etc.
Playback Options	Play, Pause, Stop, Fast/Slow play, Full screen, Backup, Snapshot, Clip management, Split screen etc.
Corridor Mode	Supported
Backup Mode	USB, e-SATA & Network
Export Picture	JPG & BMP format
Export Video	MP4, SDV & AVI format
<b>Network, Interface &amp; Storage</b>	
Protocols	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, ICMP, ARP, DHCP, DNS, DDNS, FTP, NFS, RTP, RTSP, RTCP, RTMP, NTP, SMTP, PPPoE, UPnP, IGMP, QoS, SNMP, SSL, Telnet, Unicast, Multicast
Integration	ONVIF Profile, SDK, API
Network	2, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
Serial Interface	2 x RS-485 (full-duplex), 1 x RS-232
USB Interface	2 x USB 2.0, 1 x USB 3.0
Alarm In/Out	16/4
SATA	16 SATA Interfaces (Hot Swappable)
eSATA	1 eSATA interface
Hard Disk	Up to 10 TB capacity per HDD slot
RAID Type	RAID0, RAID1, RAID5, RAID6, RAID10, N+M hot spare
<b>Smart Functions</b>	

Analytics	Configurable special camera with smart functions, such as VCA detection like Motion detection, Perimeter, Line crossing (single/ dual), Loitering, Running, Parking, Object Left, Missing Object, Face detection, People count, Crowd estimation, Video abnormal, Audio abnormal, Auto tracking, License Plate Recognition, Heatmap
Alarm types	Input alarm, Output alarm, I/O alarm error, access denied, IP & MAC conflict, Network disconnected, Hard disk full & error (r/w, overload & SMART), No hard disk, Abnormal recording & temperature, Array error, Hot spare error, Motion detection, Tampering, Analytics detection, Video loss
<b>General</b>	
User Authentication	Up to 32 users
Firmware Upgrade	Through USB & Web browser
Power Supply	AC100 ~ 240V, 50 / 60HZ
Power Consumption	≤100W (without HDD)
Working Environment	-10°C to 55°C
Humidity	10% ~ 90% Relative Humidity
Chassis	Max 3U
Dimensions	132×444×490 mm
Net Weight	11.0 Kg

**Ordering Information:**

Part code	Description
GT-N16128-KRE	128 Channels Enhanced Network Video Recorder with 16 Hard Disk Slots (Hot Swappable), RAID, 4K Cameras, HDMI, Analytics and ONVIF support.

