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## 128-CHANNEL ULTRA H.265 NVR

A professional IP recording solution for enterprise business applications supporting up to 128 IP cameras with RAID

### Features:

- + Up to 128 IP cameras
- + Up to 12MP resolution recording
- + Sixteen hard drive bays @ 14TB
- + Simultaneous playback capability:  
4 x 12MP@20 fps, 4 x 4K@30 fps
- + 512 Mbps recording capability
- + HDMI1, HDMI2, VGA independent outputs
- + Supports 2-ch HDMI, 1-ch VGA. HDMI at up to 4K(3840x2160) resolution
- + Ultra H.265/H.264 codec support
- + Supports RAID 0/1/5/6/10/50/60
- + Redundant optional power supply
- + ANR Network Storage
- + One-click Cloud firmware updating
- + Optional 4-port HDMI decoding card for Video wall feature using NVRH12816-0-HDMI
- + **Lower Bandwidth and Storage Usage** – supports Ultra H.265, H.265, and H.264 codecs that help reduce file size, maximize recording time and save hard drive space.
- + **ANR Technology** – to enhance storage reliability when the network is disconnected.
- + **Smart analytics** – this versatile recorder allows multiple selectable recording modes: intrusion, cross line, defocus, and scene change detection, along with VCA search and alert features include event search, event log, and email notification.
- + **Easy management** – an intuitive interface along with access to the free Guard Viewer mobile app and Guard Station CMS for straightforward management.
- + **Powered by the MStar™ chipset** – that meet federal government compliance requirements

# SPECIFICATIONS

## VIDEO/AUDIO INPUT

|                     |           |
|---------------------|-----------|
| IP Video Input      | 128-ch    |
| Two-way Audio Input | 1-ch, BNC |

## NETWORK

|                    |                             |
|--------------------|-----------------------------|
| Incoming Bandwidth | 512 Mbps                    |
| Outgoing Bandwidth | 384 Mbps                    |
| Remote Users       | 128                         |
| Protocols          | P2P, UPnP, NTP, DHCP, PPPoE |

## VIDEO/AUDIO OUTPUT

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HDMI/VGA Output      | VGA: 1920 x 1080p / 60 Hz, 1920 x 1080p / 50 Hz, 1600 x 1200 / 60 Hz, 1280 x 1024 / 60 Hz, 1280 x 720 / 60 Hz, 1024 x 768 / 60 Hz<br>HDMI1: 4K (3840 x 2160) / 30 Hz, 1920 x 1080p / 60 Hz, 1920 x 1080p / 50 Hz, 1600 x 1200 / 60 Hz, 1280 x 1024 / 60 Hz, 1280 x 720 / 60 Hz, 1024 x 768 / 60 Hz<br>HDMI2: 4K (3840 x 2160) / 30 Hz, 1920 x 1080p / 60 Hz, 1920 x 1080p / 50 Hz, 1600 x 1200 / 60 Hz, 1280 x 1024 / 60 Hz, 1280 x 720 / 60 Hz, 1024 x 768 / 60 Hz |
| Recording Resolution | 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF                                                                                                                                                                                                                                                                                                                                                                                          |
| Audio Output         | 1-ch, BNC                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Synchronous Playback | 16-ch                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Corridor Mode Screen | 3 / 4 / 5 / 7 / 9 / 10 / 12 / 16 / 32                                                                                                                                                                                                                                                                                                                                                                                                                               |

## DECODING

|                    |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
| Decoding format    | Ultra 265, H.265, H.264                                                              |
| Live view/Playback | 12MP / 8MP / 6MP / 5MP / 4MP / 3MP / 1080p / 960p / 720p / D1 / 2CIF / CIF           |
| Capability         | 4 x 12MP @ 20 fps, 4 x 4K @ 30 fps, 16 x 1080p @ 30 fps, 36 x 720p @ 30 fps, 64 x D1 |

## HARD DISK

|          |                         |
|----------|-------------------------|
| SATA     | 16 SATA interfaces      |
| Capacity | Up to 10TB for each HDD |
| eSATA    | 1 eSATA interface       |
| miniSAS  | 2 miniSAS ports         |

## SMART

|                      |                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| VCA Detection        | Face detection, Intrusion detection, Cross line detection, Audio detection, Defocus detection, Scene change detection, Auto tracking |
| VCA Search           | Face search, Behavior search                                                                                                         |
| Statistical Analysis | People counting                                                                                                                      |

## DISK ARRAY

|            |                                   |
|------------|-----------------------------------|
| Array Type | RAID 0 / 1 / 5 / 6 / 10 / 50 / 60 |
|------------|-----------------------------------|

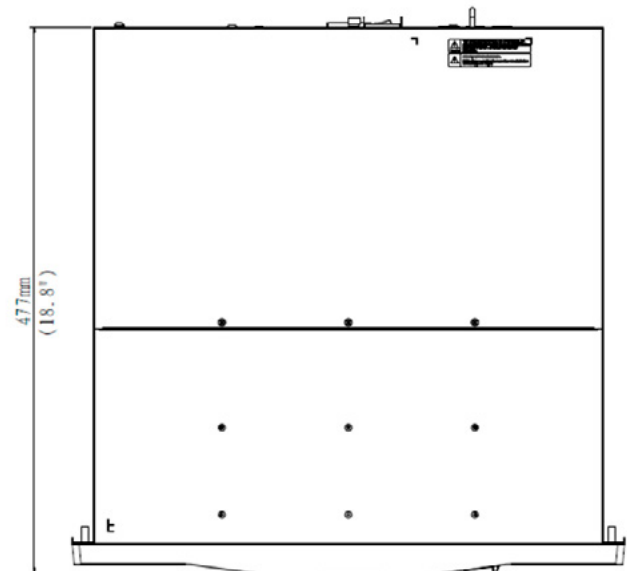
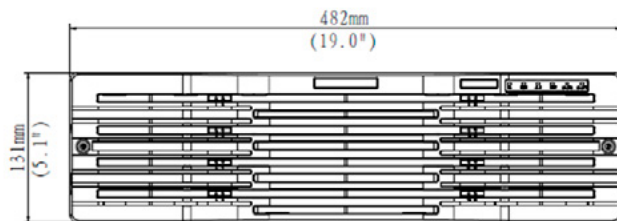
## EXTERNAL INTERFACE

|                          |                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------|
| Network Interface        | 4 RJ-45 10M / 100M / 1000M adaptive Ethernet Interface<br>2 x 1000M SFP Ethernet Interface |
| Serial Interface         | 1 x RS232, 1 x RS485                                                                       |
| USB Interface            | Rear panel: 4 x USB3.0                                                                     |
| Alarm In                 | 24-ch                                                                                      |
| Alarm Out                | 8-ch                                                                                       |
| Decoding Card (optional) | 2 slots (4-ch HDMI or 6-ch HDMI outputs per card)                                          |
| Power Output             | 12 V                                                                                       |

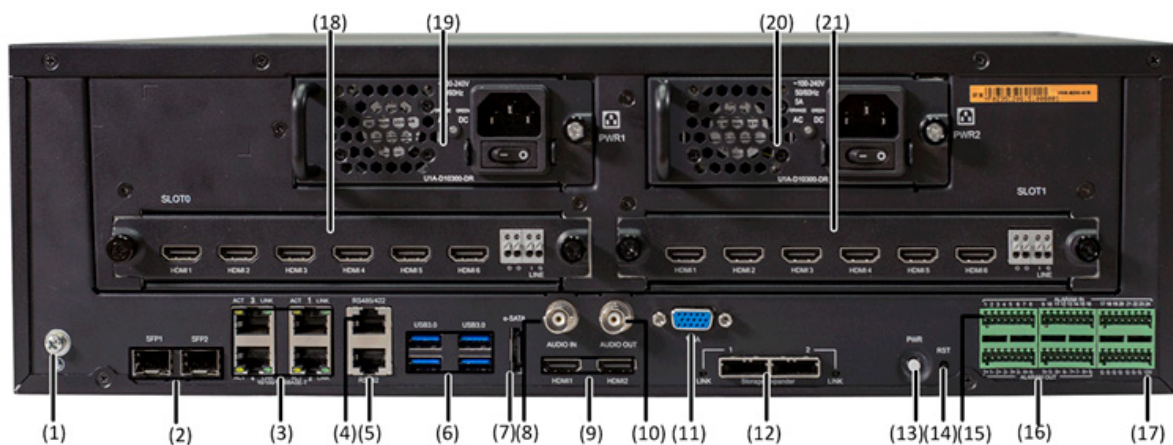
## GENERAL

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Power Supply         | 100 ~ 240 Vac<br>Power Consumption: ≤ 50 W (without HDD)                    |
| Working Environment  | +14°F ~ +131°F (-10°C ~ +55°C),<br>Relative humidity ≤ 90% (non-condensing) |
| Chassis              | 19-inch rack-mounted 3U chassis                                             |
| Dimensions           | 18.8"×19.0"×5.1" (482 × 477 × 131 mm)                                       |
| Weight (without HDD) | 22.05 lb.(≤10 kg)                                                           |

## DIMENSIONS



## REAR PANEL



|      |                |      |                           |      |                            |
|------|----------------|------|---------------------------|------|----------------------------|
| (1)  | GND            | (2)  | SFP Interface             | (3)  | Adaptive Interface         |
| (4)  | RS485          | (5)  | RS232                     | (6)  | USB                        |
| (7)  | eSATA          | (8)  | Audio Input               | (9)  | HDMI Output                |
| (10) | Audio Output   | (11) | VGA Output                | (12) | miniSAS                    |
| (13) | Power Button   | (14) | RST                       | (15) | Alarm Input                |
| (16) | Alarm Output   | (17) | 12V DC Output             | (18) | Decoding Card 1 (optional) |
| (19) | Power Supply 1 | (20) | Power Supply 2 (optional) | (21) | Decoding Card 2 (optional) |