16 CHANNEL NETWORK VIDEO RECORDER

ONVIF® | GST · NDAA Compliant · N

PWR · HDD

16CH Network Video Recorder
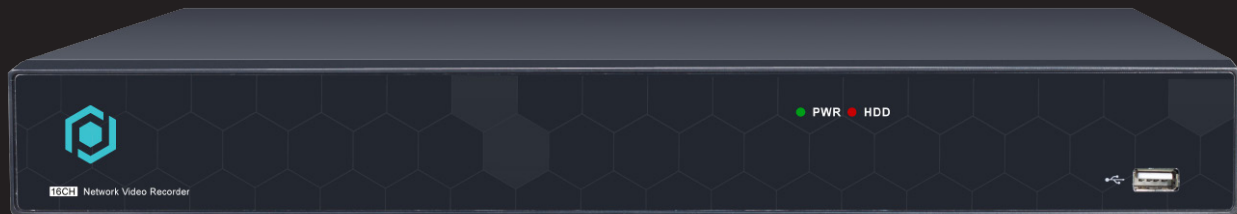
The **GSD-NVRFNC4K-16-N** is a next-generation 16-channel 4K Network Video Recorder designed to deliver robust performance, high-resolution recording, and scalable storage in a professional surveillance solution. Supporting up to 8MP resolution with 4K HDMI output, it provides crisp, detailed image quality for demanding applications. With 16 PoE ports + E-PoE, installation is fast and efficient — simply plug in cameras and power them directly from the recorder. ONVIF compliance ensures wide compatibility across brands, and P2P connectivity allows for secure remote monitoring anytime. Supporting dual HDDs up to **18TB** each, it offers ample long-term storage capacity for larger security deployments.

AI FEATURES

- Human & Vehicle Detection
- Perimeter Intrusion Detection
- Line Crossing Detection
- License Plate Detection
- Facial Recognition
- Intrusion Detection
- Queue Length Detection
- Region Entry And Exit
- Cross-Counting
- Rare Sound Detection
- Stationary Object Detection
- Crowd Density Detection
- Heat Map
- Noise Detection
- Video Tampering

8MP RESOLUTION
Up to 8MP Resolution

ONVIF
ONVIF Compliant (G/S/T)

4K
4K HDMI Output

< · ⚡ · >
16 POE Ports + E-PoE

HDD
2HDD slot up to 16TB

1080P VGA Output

P2P
P2P Connection

</>
ONVIF Encoder

RECORDING BANDWIDTH

Resolution	8MP,5MP, 3MP ,2MP(1080P),1.3MP(960P),1.0MP(720P)
Input	112M
Output	96M

PERFORMANCE

DDR	2x 4GB
Installation Wizard	Yes
Compression	Audio: G.711a /G.726 Video : H.264/H.265
AI Features	Yes
Frame Rate	4K:45fps 4MP:90fps 2MP:180fps
Event	MD (Sensitivity Level 1~8) Videlo loss Beep, Email, Push notification to Mobile APP
Playback Function	Fast forward / backward (2x, 4x, 8x,16X) Slow forward (1/2x, 1/4x, 1/8x,1/16x)
Playback	Max 16CH playback

FONCTIONS IA   INSTANT NOTIFICATIONS

Human Detection	*Region Exiting*
Vehicle Detection	*Cross-Counting*
Perimeter Intrusion Detection	*Rare Sound Detection*
Line Crossing Detection	*Stationary Object Detection*
License Plate Detection	*Crowd Density Detection*
Facial Recognition	*Heat Map*
Intrusion Detection	*Noise Detection*
Region Entrance	*Video Tampering*
Queue Length Detection	*INSTANT NOTIFICATIONS*
AI MAX CAPTURED QUANTITY 200,000	*AI REGISTERED QUANTITY* 10,000

DOWNLOAD THE SMART GUARDIAN APP

GET IT ON Google Play

Available on the App Store

UI/MONITORING

Local	UI5.0
Web	IE10/11, Safari V12.1 above, Firefox V.52 above Google chrome V.57 above, Edge V.79 above
Mobile Viewer	SMART GUARDIAN
Push Notifications	Yes

INTERFACE

P/W Reset	Factory Reset : Press 10 seconds After the button press and the buzzer beeps, it means the reset is done.
VGA	1 (1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080)
HDMI	1 (1024*768, 1280*720, 1280*1024,1440*900, 1920*1080 , 2560*1440, 3840*2160/EDID)

CONNECTIONS

POE	16 POE
Ethernet	1 RJ45 100/1000 Base-T
USB	USB2.0*1(front) USB2.0*1+(rear)
Audio Out	1
E-SATA	N0
HDD	2 SATA HDDs, up to 16TB each HDD
Line-In	1
RS485	1
Alarm Input/Out	8 in /1 out

GENERAL

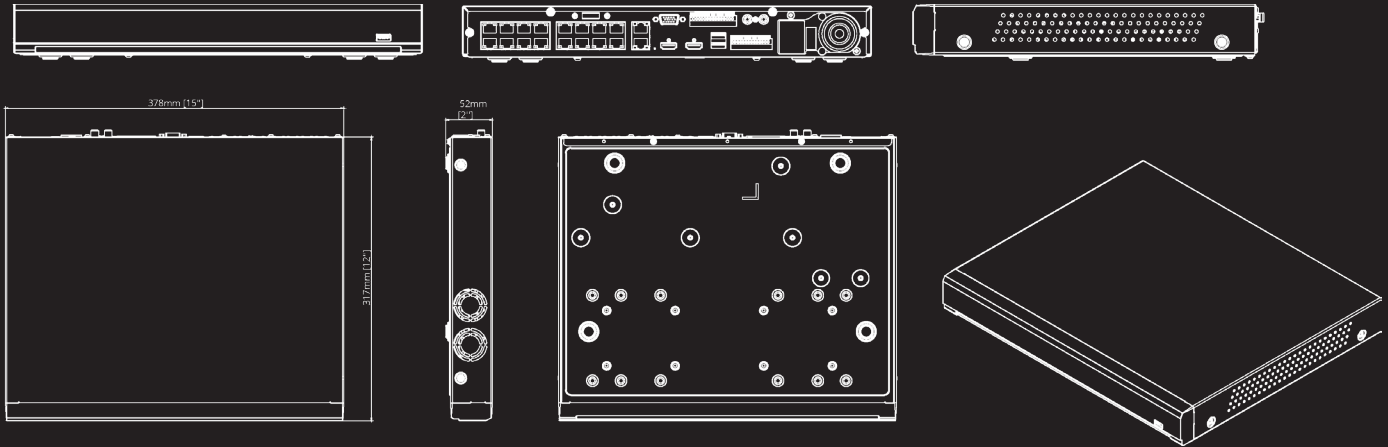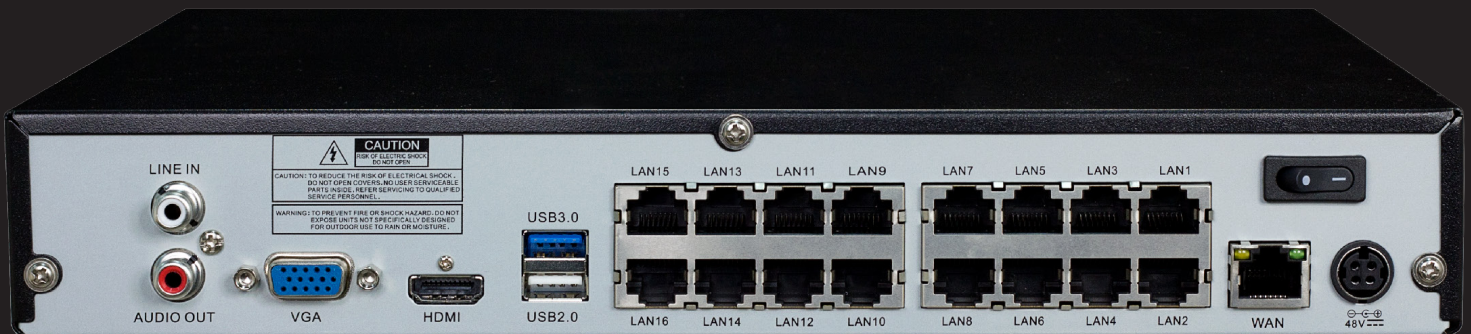|	
OSD Language	Multiple Languages : EN/FR/ES/DN/TC/IN/JP/KR
Dimension (WXDXH)	380*324.4*50mm
Input Voltage/Current	DC48V/3.75A | PoE Swith :48V
Power Consumption	8W
Operating Temperature/Humidity	Temperature : 0°C~+40°C (32°F ~ 104°F) Humidity : Less than 90%RH

DIMENSIONS

Length:317MM | Width:378MM | Height: 52MM

LINE IN

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS NOT SPECIFICALLY DESIGNED FOR OUTDOOR USE TO RAIN OR MOISTURE.

AUDIO OUT   VGA   HDMI

USB3.0
USB2.0

LAN15 LAN13 LAN11 LAN9   LAN7 LAN5 LAN3 LAN1
LAN16 LAN14 LAN12 LAN10   LAN8 LAN6 LAN4 LAN2

WAN   48V

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

COMPATIBLE HARD DRIVES

WD Purple™
3.5" Surveillance HDD
HARD DISK DRIVE
4TB
Western Digital

WD Purple® Pro
3.5" Surveillance HDD
8TB
Western Digital

WD Purple® Pro
3.5" Surveillance HDD
10TB
Western Digital

WD-HDDPURPLE-4T
UP TO 4TB HARD DRIVE

WD-HDDPURPLE-8T
UP TO 8TB PRO HARD DRIVE

WD-HDDPURPLE-10T
UP TO 10TB PRO HARD DRIVE