

256 CHANNEL NETWORK VIDEO RECORDER

Onvif® | G S T

NDA
Compliant



The **GSD-NVRFNC4K-256-NP** is a next-generation 256-channel 4K Network Video Recorder engineered for massive-scale surveillance infrastructures requiring maximum reliability and storage. Supporting up to 12MP recording with four 4K HDMI outputs and three HDMI spot monitors, it delivers exceptional clarity across hundreds of camera feeds. Designed for enterprise and governmental operations, it features 16 hot-swappable HDD bays supporting up to 20TB each, ensuring unmatched long-term retention. Its rackmount architecture, ONVIF compliance, and P2P connectivity make integration seamless while enabling secure access from anywhere. Built for the most demanding security applications, it provides the power and scalability required for mission-critical deployments.

12MP
RESOLUTION

Up to 12MP
Resolution

ONVIF

ONVIF Compliant
(G/S/T)

4K

4K HDMI Output



Rackmount
Compatible



8 HDD slots
up to 20TB



1080P VGA
Output



P2P Connection



ONVIF Encoder

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
- 🔒 Fall Detection
- 🔒 Multi Target Type Detection
- 🔒 Vehicle/Human Attributes
- 🔒 Temperature Measurement
- 🔒 Fire & Smoke Detection
- 🔒 Face Masking

RECORDING BANDWIDTH

Resolution	12MP,8MP,5MP, 3MP ,2MP(1080P),1.3MP(960P),1.0MP(720P)
Input	1024M
Output	800M

PERFORMANCE

Recording Compression	Audio: G.711A,G.711U Video: H.264/H.265/H.264+/H.265+
Frame rate	4K:240fps 4MP:480fps 2MP:960fps
Playback	Max 16CH
Event	MD(Sensitivity Level 1~8) , Video 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)
RAID Type	RAID0, RAID1, RAID5, RAID6, RAID10
Fisheye	Support

Network

WEB	IE10/11, Safari V12.1 above, Firefox V.52 above, Google chrome V.57 above, Edge V.79 above
Protocols	TCP/IP, DHCP, IPv4, IPv6, DNS, DDNS, NTP, RTSP, SMTP, SNMP, UPnP, HTTP, HTTPS
API	Onvif (profile S/G/T)
Voice command	Home Device: Google Assistant, Amazon Alexa

AI FEATURES INSTANT NOTIFICATIONS

<i>Human Detection</i>	<i>Region Entrance</i>
<i>Vehicle Detection</i>	<i>Region Exiting</i>
<i>Perimeter Intrusion Detection</i>	<i>Rare Sound Detection</i>
<i>Line Crossing Detection</i>	<i>Stationary Object Detection</i>
<i>License Plate Detection</i>	<i>Crowd Density Detection</i>
<i>Facial Recognition</i>	<i>Heat Map</i>
<i>Intrusion Detection</i>	<i>Noise Detection</i>
<i>Cross-Counting</i>	<i>Video Tampering</i>
<i>Fall Detection</i>	<i>Multi Target Type Detection</i>
<i>Vehicle/Human Attributes</i>	<i>Temperature Measurement</i>
<i>Fire & Smoke Detection</i>	<i>Face Masking</i>
AI MAX CAPTURED QUANTITY 200,000	AI REGISTERED QUANTITY 10,000

INTERFACE

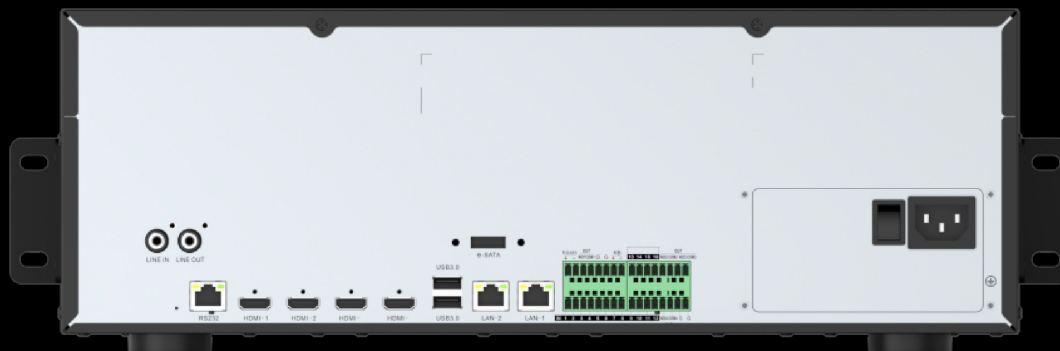
P/W Reset	Yes
HDMI	3(1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080 , 1920*1080 , 1600*1200, 1920*1200, 3840*2160/7680*4320 EDID,Async out *If the output resolution of HDMI 1 is set to 8K, the maximum output resolution of HDMI 3 and 4 will be limited to 1080P, and HDMI 2 will be disabled. 1(1024*768, 1280*720, 1280*1024, 1440*900, 1920*1080) Async out
Ethernet	2 RJ45 1000 Base-T
USB	USB2.0*1(front), USB3.0*2(rear)
Audio Out	1
E-SATA	1
HDD	16 SATA HDD, up to 20TB (Enterprise-Class)
Line in	1
RS232	1*RJ45
RS485	1
Alarm Input/Output	16 in / 4 out

GENERAL

OSD Language	English/French/Spanish/Portuguese/German/ Italian/Greek/Danish/Finnish/ Russian/ Hebrew/Turkish/Bulgarian/Arabic/Korean/ Japanese/Thai/Hindi/ Romanian/Dutch/Polish/ Persian/Hungarian/Chinese/Ukrainian
Dimension (WxDxH)	440*460*149mm
Input voltage/current	ATX 250W
Power consumption (excluding hard disk)	8W
Operating Temperature/ Humidity	Temperature: -10°C~+50°C (14°F ~ 122°F) Humidity: Less than 90%RH
FCC/CE	Yes
Rackmount Compatible	Yes

DIMENSIONS

Length: 440MM | Width: 460MM | Height: 149MM



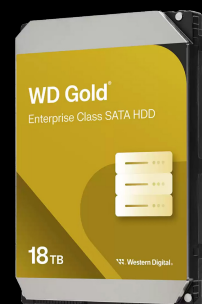
COMPATIBLE HARD DRIVES



 **WD-HDDGOLD-6T**
UP TO 6TB HARD DRIVE



 **WD-HDDGOLD-10T**
UP TO 10TB PRO HARD DRIVE



 **WD-HDDGOLD-18T**
UP TO 18TB PRO HARD DRIVE

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