16 CHANNEL DIGITAL VIDEO RECORDER

ONVIF® | GST | NDAA Compliant | N

16CH HD Digital Video Recorder

PWR   HDD
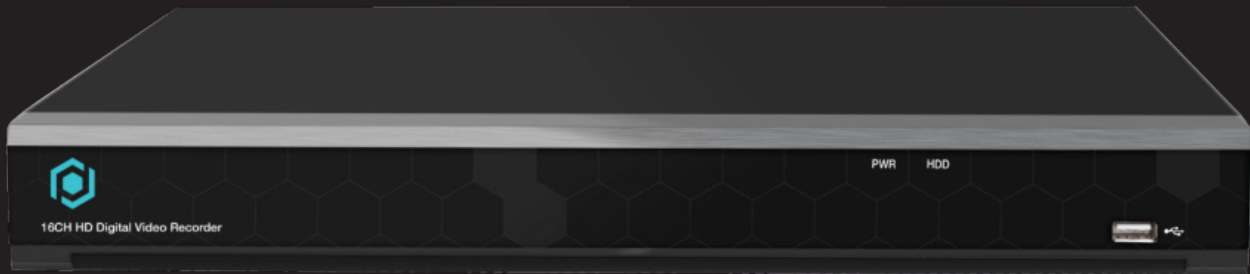
The **GSD-DVRFNC5MP-16-N-AI** is a cost-effective 16-channel AI DVR that balances intelligent analytics with efficient system performance. It delivers features such as human and vehicle detection, facial recognition, and perimeter alerts, while supporting dual hard drives up to 18TB each. With 16 alarm inputs and 1 alarm output, 4K HDMI output, ONVIF compatibility, and P2P mobile access, this DVR is well suited for users seeking smart surveillance without high storage or bandwidth demands.

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 5MP Resolution LITE

ONVIF
ONVIF Encoder

4K
4K HDMI Resolution

Alarm
16 In/ 1 Out

2HDD
slot up to 18TB

Spot Monitor Out on BNC

P2P Mobile Connection

Up to 4 IP Cameras

LIVE

IP Video Input	4ch,(only IP up to 20ch)
Composite Video Input	Up to 20ch (Analog video + IP video)

PERFORMANCE

Installation wizard	Yes
Compression	Audio: G.711a / Video : H.264/H.265
Display Resolution	Analog : 5MP-Lite (3.9MP): 15fps 4MP-Lite: 30 fps 1080P/720P/960H: 30fps IP : 5MP/4MP/1080P/720P Single channel preview up to 2MP 30 fps multi-channel preview only substream
Speed	Main-stream Analog : 5MP-Lite:12fps (each ch) / 4MP-Lite:16fps(each ch) / 1080P:15fps(each ch) / 720P:PAL:25fps(each ch)/NTSC:30fps(each ch) IP : PAL:25fps(each ch)/NTSC: 30fps(each ch) Sub-stream Max PAL: 704*576:10fps(each ch)/ NTSC: 704*480:10fps(each ch) The sub-stream frame rate is less than the preview frame H.264 performance is about 20% lower than H.265
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	5MPlite: 96fps (Max 8CH playback), 4MPlite: 128fps, (Max 8CH playback) 1080P: 120fps (Max 8CH playback), 720P:240fps (Max 8CH 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

THESE AI FEATURES ONLY WORK WITH IP CAMERAS, OR ANALOG CAMERAS WITH 2MP OR MORE

RECORDING BANDWIDTH

Inputs	16Mbps ~80Mbps Analog channel and digital channel can be converted Encoding performance and decoding performance cannot be converted Total decoding performance 1080P 120fps
Out	96Mbps
Analog-video-input	16CH inputs

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 Notification	Yes

INTERFACE

Voice Command	Yes
P/W Reset	Factory Reset : Press 10 seconds
BNC	1 (704*576)
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(2K) ,3840*2160(4K))
Ethernet	2 RJ45 100/1000 Base-T
USB	USB2.0*1 (front) USB3.0*1+ (rear)
Audio	16 in / 1 out (4 in /1 out optional)
E-SATA	1
HDD	2 SATA HDD, up to 18TB
RS485	1
Alarm Input/Out	16 in /1 out optical

GENERAL

|	
OSD Language	Multiple Languages : EN/FR/ES/DN/TC/IN/JP/KR
Dimension (WXDXH)	378*326*66mm
Input Voltage/Current	1HDD:DC12V/2A 2HDD:DC12V/5A
Power Consumption (Excluding Hard Disk)	TBD
Operating Temperature/ Humidity	Temperature : -10°C~+50°C (14°F ~ 122°F) Humidity : Less than 90%RH

DIMENSIONS
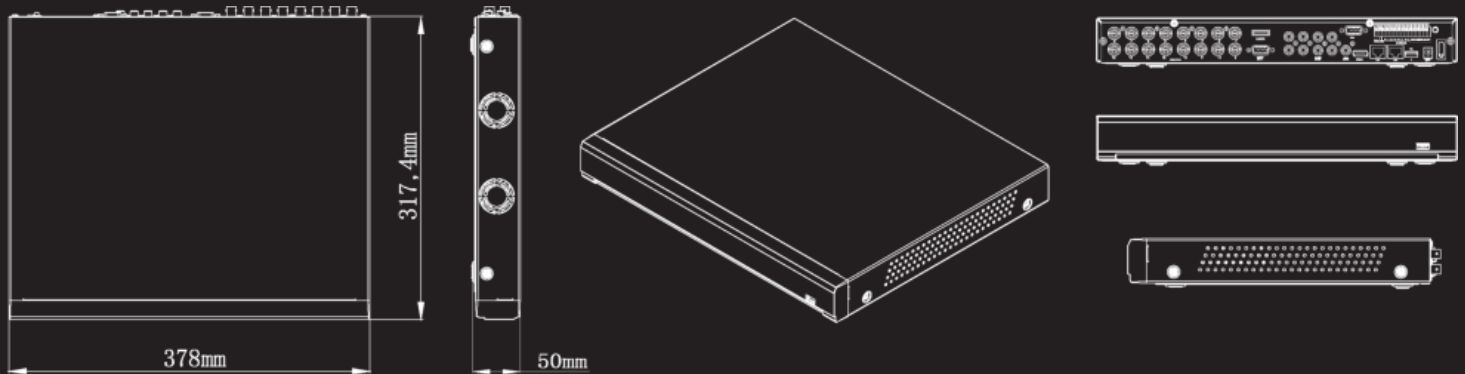
Length:317.4MM | Width:378MM | Height: 50MM

HDMI®
HIGH-DEFINITION MULTIMEDIA INTERFACE

COMPATIBLE ACCESSORIES

BALUNHDA+
VIDEO/POWER/AUDIO OVER CAT5

DISTANCE	400+
FORMAT	PIGTAIL
DETAILS	VIDEO POWER AUDIO
PACKAGE	PAIR
TECHNO	TVI/CVI/AHD/ANALOG

BALUNHD
BALUNHD OVER TWISTED PAIR

DISTANCE	700+ FEET
FORMAT	PIGTAIL
DETAILS	2MP/5MP/8MP
PACKAGE	PAIR
TECHNO	TVI/CVI/AHD/ANALOG

SWC5POE-GIGA
POE SWITCH
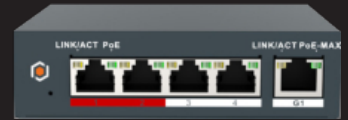
SWC5POE-MAN
POE SWITCH

WD PURPLE PRO
UP TO 2TB HARD DRIVE

WD PURPLE PRO
UP TO 4TB HARD DRIVE

WD PURPLE PRO
UP TO 8TB HARD DRIVE