16 Channel Video Recorder

GD-RN-BC2416N

Type: Standalone NVR - IP - Recorder
Item Code: GD-RN-BC2416N
EAN CODE: 4260573064762

VERSA

The VERSA product line offers comprehensive, advanced solutions with a wide and complete range of features.

Highlights

H.265+

H.265pro+ utilizes the standard H.265/High Efficiency Video Coding (HEVC) format, but boasts advanced technologies that enable it to substantially reduce the necessary transmission bandwidth and storage capacity for maximum efficiency.

Smartphone App

The mobile application was developed to facilitate operators in effectively controlling and managing video systems remotely, at any time. It allows for live image viewing, playback of recorded video data, and receipt of remote notifications.

Object Classification

This technology employs a highly advanced deep learning algorithm that can discern whether the alarm was triggered by a human, a vehicle or some other object.

Essential Line

Many small to medium-sized systems are capable of operating without any specific requirements. Simply storing video sequences is often sufficient in the event of an incident, allowing for the course of events to be determined through recorded footage. GRUNDIG Security provides a comprehensive range of standard applications to meet these needs, including cameras that capture high-resolution images regardless of lighting conditions and recorders capable of storing video sequences for weeks or months, although privacy concerns may prevent this practice. The "Essential" product line offers high image quality, making it ideal for meeting basic requirements.

Features

- Deep Learning - Human and Vehicle Analysis: Self learning human and vehicle classification improves unwanted alarm filtering
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and mobile Apps
- ONVIF protocol support
- Various recording features (Normal, schedule, motion, alarm)

Specifications GD-RN-BC2416N

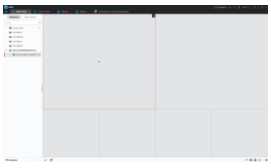
Video	
IP Inputs:	16 channels
Recording / Playback	
Recording Bandwidth:	160 Mbps in
Outgoing Bandwidth:	max. 160 Mbps out
Recording Resolution:	12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080P, UXGA, 720P, VGA, 4CIF, DCIF, 2CIF, CIF, QCIF
Recording Mode:	Continuous, Event Alarm, Motion, Video Loss, Schedule
Search Mode:	Date, Time, Event Alarm, Motion, Search Backup, Quick search by object or event type
Playback:	Synchronised playback of max. 16 cameras
Frame Rate(R):	2-ch @ 12 MP (30 fps) , 3-ch @ 8 MP (30 fps) , 6-ch @ 4MP (30 fps) , 12-ch @ 1080p (30 fps)
Audio	
Audio Compression:	G.711u/a, G.722.1, G.726, AAC
General	
External Backup:	USB HDD, USB Memory, DVD-R, Network
Max. Storage Capacity:	Up to 10 TB capacity for each HDD
PTZ Control:	Pan, Tilt, Zoom, Preset set and call
Basic Internal Storage:	No
Accessories included:	SATA Cable, Cat Cable, screws for harddisc, Mouse, Remote control (optional)
Network	
Video Compression:	H.264, H.264+, H.265, H.265+
Streaming Method:	Unicast, Multicast
Network Protocol:	TCP/IP, HTTP, HTTPS, DHCP, DNS, DDNS, RTSP, SNMP, SMTP, NTP, SADP, NFS, iSCSI, UPnP™, IPv4/IPv6, ISUP
Cyber Security:	3 levels of user management: admin, operator, user, AES Encryption for Password Protection, Complicated Password, HTTPS (SSL) Login Authentication, Basic and digest authentication for HTTP/HTTPS, Host authentication (MAC address), WSSE and digest authentication for ONVIF, Security audit log, SNMP V2 , TLS 1.1, TLS 1.2, TLS 1.2 with updated cipher suites including AES 256 encryption. Brute Force Delay Protection, Signed Firmware, Secure Boot by software check, Secure Boot by hardware check
Remote Connections:	128
I/O Interface	
HDMI Output:	4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 x 1200/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz
VGA Output:	1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz
Audio Input/Output:	1-ch audio input and 1-ch audio output
Alarm Inputs:	4 contact input N/O or N/C, DC 12V, 1A
Alarm Outputs:	1 x DC 12V, 1A or AC 110V, 0.5A
Harddisk bay:	2 x SATA
Network Interface:	1x 10, 100, 1000 Base T, TX (RJ-45)
Serial Interface(s):	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0
Intelligent Functions	
Face Recognition:	16 face libraries configurable with up to 20.000 faces in total for 1 ch @8 MP
Intrusion Detection:	People, motorized vehicles or non-motorized vehicles, enter, exit or drive over a predefined virtual area, in total for 2 channels.

Intelligent Functions	
Line Crossing:	Cross a pre-defined virtual line with target classification Pedestrian and or Motor vehicle can be configured for 2 channels.
Motion Detection:	Adjustable whether people or motorized vehicles or only movements should be detected. The detection area and sensitivity can also be adjusted.
Region Entrance:	Enter a pre-defined virtual region from the outside place (* only supported from 2 cameras at same time)
Region Exiting:	Exit from a pre-defined virtual region (* only supported from 2 cameras at same time)
Event Source:	Motion, AI Functions, Video Loss, Network Interruption, Video Tampering, HDD Full, HDD Error, Face Detection and Alarm Inputs
Event Action:	Send E-mail, trigger alarm output, notify surveillance C-WERK, upload to FTP/Cloud, trigger HDD-card recording and/or image capture, Full Screen, show message, Voice Prompt, Buzzer.
Approvals	
Regulation:	CE, FCC, RoHS Compliant
Standard:	ONVIF (Profile S, Profile G), SDK/ISAPI
Environmental	
Operating Temperature:	-10°C ~ +55°C (+14°F ~ + 131°F)
Humidity:	Less than 90%, non condensing
Electrical	
Supply Voltage:	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included
Power Consumption:	≤ 15 W without harddisk
Mechanical	
Dimensions:	380 × 315× 52mm (15.2 x 12.4 x 2.0 inch)
Weight:	1650 g (3.3 lb)
Packaging	
Package Dimensions:	435 x 129 x 387 mm (17.1 x 5.1 x 15.2 inch)
Package Weight:	2800 g (6.2 lbs)
Packaging Unit:	4
Bulk Package Dimensions:	548 x 450 x 412 mm (21.6 x 17.7 x 16.2 inch)
Bulk Package Weight:	12200 g (26.9 lbs)

Accessories

GD-CW-VIEWER

GD-CW-FINDER



GD-SW-SCMS

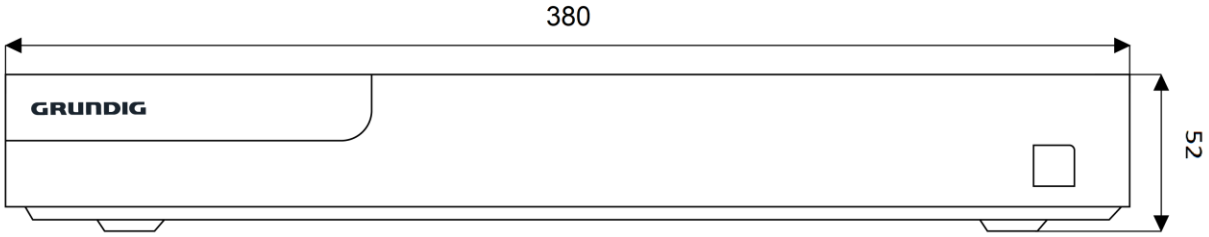
GD-HW-HDD-2TB

GD-HW-HDD-4TB

GD-HW-HDD-8TB

GD-HW-HDD-10TB

GD-KB-AC1420P

GD-KB-AT2430P

Dimensions