



Type: Standalone NVR - IP - Recorder

Item Code: GD-RN-BC2004P

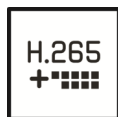
EAN CODE: 4260573064687

## ESSENTIAL

Our ESSENTIAL product line is designed to deliver high-quality performance, with basic features and impressive functions, making it perfect for smaller applications.

## Highlights

### H.265+



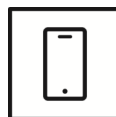
H.265pro+ utilizes the standard H.265/High Efficiency Video Coding (HEVC) format, but boasts advanced technologies that enable it to substantially reduce the necessary transmission bandwidth and storage capacity for maximum efficiency.

### Objekt 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.

### 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.

## 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
- Built in PoE Switch for direct IP camera connection
- Various recording features (Normal, schedule, motion, alarm)
- ONVIF protocol support
- Multiplex (Live/Playback, Recording, Backup, Networking)
- Recorded files backup via USB device

## Specifications GD-RN-BC2004P

Video	
IP Inputs:	4 channels
Recording / Playback	
Recording Bandwidth:	max. 40 Mbps
Outgoing Bandwidth:	80 Mbps
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
Playback:	Synchronised playback of max. 4 cameras
Frame Rate(R):	1-ch @ 12 MP (30 fps) , 1-ch @ 8 MP (30 fps) , 3-ch @ 4MP (30 fps) , 6-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 10TB capacity for each HDD (not mandatory)
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+
Network Protocol:	TCP/IP, IPv4/IPv6, DHCP, DNS, DDNS, RTSP, SMTP, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, SNMP, 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, 802.1X authentication , (EAP-LEAP), 802.1X authentication (EAP-TLS), Host authentication (MAC address), IP Address Filter, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, Control timeout settings, Security audit log, SNMP V2 , SNMP V3, TLS 1.1, TLS 1.2, TLS 1.2 with updated cipher suites including AES 256 encryption. Centralized Certificate Management, Brute Force Delay Protection, Signed Firmware, Secure Boot by software check, Secure Boot by hardware check
Remote Connections:	128
Streaming Method:	Unicast, Multicast
I/O Interface	
HDMI Output:	4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz, 1600 × 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
Harddisk bay:	1 × SATA III
Network Interface:	1x 10, 100, 1000 Base T, TX (RJ-45)
Power over Ethernet:	4 independent 10, 100 Mbps PoE Ethernet interfaces
ISO Standard:	PoE IEEE 802.3 af, at
PoE Budget:	50 W
Serial Interface(s):	Front panel: 1 × USB 2.0 Rear panel: 1 × USB 2.0

**Intelligent Functions**

Motion Detection:	Adjustable whether people or motorized vehicles or only movements should be detected. The detection area and sensitivity can also be adjusted.
Face Recognition:	16 face libraries configurable with up to 20.000 faces in total for 1 ch @8 MP
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/API

**Environmental**

Operating Temperature:	-10°C ~ +55°C (+14°F ~ + 131°F)
Humidity:	Less than 90%, non condensing

**Electrical**

Supply Voltage:	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included
Power Consumption:	≤ 10 W without harddisk and PoE off

**Mechanical**

Dimensions:	320 x 240 x 48 mm ( 12.6 × 9.4 x 1.9 inch)
Weight:	1160 g (2.6 lb)

**Packaging**

Package Dimensions:	420 x 83 x 297 mm (16.5 x 3.3 x 11.7 inch)
Package Weight:	2000 g (4.4 lbs)
Packaging Unit:	8
Bulk Package Dimensions:	723 x 503 x 313 mm (28.5 x 19.8 x 12.3 inch)
Bulk Package Weight:	17500 g (38.6 lbs)