



Type: Standalone NVR - IP - Recorder
Item Code: GU-RN-AP8864N
EAN CODE: 4260573064328

SMART

The SMART product line offers comprehensive coverage of modern video systems with advanced AI analysis and solutions for various application areas.

Highlights

H.265+



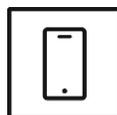
H.265pro+ utilizes the standard H.265/High Efficiency Video Coding (HEVC) format, but boasts advanced technologies that enable it to substantially reduce the necessary transmission bandwidth and storage capacity for maximum efficiency.

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.

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.

Deep Learning



Deep Learning is inspired by the complex structure of the human brain. This innovative method allows processing of information and performing corresponding actions based on analysis.

Features

- Many intelligent functions: deep learning distinguishing between human and vehicles, detection of line crossing, intrusion, queue length, crowd density, lost objects and display of heat map. Recognition of car license plates and faces including allowed and blocked lists. Counting of different Objects.
- Video recording with NAS System and Local HDD
- RAID configuration
- Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and mobile Apps

NDA compliant

GRUNDIG Security's SMART line is fully compliant with the National Defense Authorization Act (NDAA), which prohibits U.S. federal agencies and their partners from using video surveillance and telecommunications equipment or services from certain Chinese companies. This law is part of the John S. McCain NDAA and is effective August 2020.

With our SMART product line, you can be confident that your security system complies with this important regulation. Our products meet the highest standards of quality and reliability, providing you with the security you need to protect your assets and personnel.

Specifications GU-RN-AP8864N

Video

| | |
|----------------|--|
| IP Inputs: | 64 channels |
| Privacy zones: | multiple zones (min. 4), depending on camera |

Recording / Playback

| | |
|------------------------|---|
| Recording Bandwidth: | 640 Mbit/s |
| Outgoing Bandwidth: | 640 Mbit/s |
| Recording Resolution: | 12 MP, 8 MP, 5 MP, 3 MP, 1080P, 960P, 720P |
| Recording Mode: | Continuous, Event Alarm, Motion, Video Loss, Schedule |
| Search Mode: | Date, Time, Event Alarm, Motion, Search Backup |
| Smart Search Function: | Search for people, motorized vehicles, non-motorized vehicles, intrusion and line crossing, thumbnails, tags, faces and characteristics, attendance, visit frequency and license plates |
| Playback: | Synchronised playback of max. 16 cameras |
| Frame Rate(R): | 4K: 240fps, 4MP: 480fps, 2MP: 960fps |

Audio

| | |
|--------------------|---|
| Audio Compression: | G.711 |
| Audio Detection: | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease |

General

| | |
|-------------------------|---|
| External Backup: | USB HDD, USB Memory, Network |
| Max. Storage Capacity: | Up to 12 TB capacity for each HDD |
| Languages: | Chinese, Czech, Dutch, English, Finnish, French, German, Italian, Portuguese, Spanish, Russian, Turkish, Polish |
| Log File Support: | Events, macros, changes, activities per user |
| PTZ Control: | Pan, Tilt, Zoom, Preset set and call |
| Basic Internal Storage: | No |
| Accessories included: | Mouse, sata cable, 19 inch rack mount kit |

Network

| | |
|--------------------|--|
| Number of Clients: | Up to 32, 20 simultaneously |
| Functions: | Automatic detection of connected devices in the network, real-time monitoring, synchronous playback of video footage from multiple cameras, playback via timeline, fast, slow, forward and reverse, multi-level user rights, fisheye dewarping, privacy mask. |
| Video Compression: | H.264, H.264+, H.265, H.265+ |
| Cyber Security: | Different password levels, password protection, password change prompt at first startup, complicated password, HTTPS encryption, digest authentication for HTTP/HTTPS, IP address filter, WSSE and digest authentication for ONVIF, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.0, TLS 1.1 & TLS 1.2, TLS 1.2 with updated cipher suites including AES 256 encryption, Brute Force Delay Protection of 180 s after 5 login attempts, Signed Firmware. |

| Network | |
|----------------------------------|--|
| Remote Connections: | 32 |
| Streaming Method: | Unicast, Multicast |
| I/O Interface | |
| RAID: | RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 |
| HDMI Output: | HDMI1, 2 & 3: 3840 x 2160 (EDID/4K), 2560 x 1440, 1920 x 1080, 1440 x 900, 1280 x 1024, 1280 x 720, 1024 x 768 HDMI4: 1920 x 1080, 1440 x 900, 1280 x 1024, 1280 x 720, 1024 x 768 |
| Audio Input/Output: | 1-ch audio input and 1-ch audio output |
| Alarm Input/Output: | 16/4 |
| Harddisk bay: | 8 x SATA III, 1 x eSATA |
| Network Interface: | 2x 10, 100, 1000 Base T, TX (RJ-45) |
| Serial Interface(s): | Front panel: 1x USB 2.0, Rear panel: 2x USB 3.0, 1x RS-485, 1x RS-232 |
| Intelligent Functions | |
| Motion Detection: | Adjustable whether people, motorized or non-motorized vehicles or only movements should be detected. The detection area and sensitivity can also be adjusted. |
| People & Vehicle Detection: | Adjustable whether people, motorized or non-motorized vehicles should be detected. |
| Intrusion Detection: | People, motorized vehicles or non-motorized vehicles, enter, exit or drive over a predefined virtual area, up to 4 rules are supported |
| Line Crossing: | People, motorized vehicles or non-motorized vehicles cross a pre-defined virtual line, up to 4 rules are supported |
| Object Removal: | Detects objects left over or lost in the pre-defined region such. In this case an alarm notification or signal will be sent automatically and in real time. |
| Object Counting: | People, motorized vehicles, non-motorized vehicles or other movements are counted when crossing a virtual line and the result is displayed on the screen in real time |
| Face Detection: | Human face appears in the image can be detected and trigger event action |
| Face Recognition: | Detects and recognizes faces by comparing them to stored portrait images. Actions can be triggered via the allowed, blocked and other list |
| License Plate Recognition: | Detects and recognizes car number plates. Data- import- export function, actions can be triggered via the allowed, blocked and other list |
| Heat Map: | Visualizes the number of people in the surveillance area over a period of time with a simple and user-friendly color scheme |
| Queue Length Detection: | Counts people in a predefined area and measures service time. The area, the maximum number of people in it and the maximum service time can be set |
| Crowd Density Detection: | Counts people in a predefined area. The area, the maximum number of people in it can be set |
| Tamper Protection: | Detection of scene change, defocus, sudden audio increase/decrease or audio loss. |
| Limits of intelligent functions: | Some functions are only available if supported by the connected camera. Some features are limited by the number of supported channels. |
| Event Source: | Motion, AI Functions, Video Loss, Network Interruption, Video Tampering, HDD Full, HDD Error, Audio Detection and Alarm Inputs |
| Event Action: | Send e-mail, trigger alarm output, push notification for GSVM App and C-WERK, upload to FTP/Cloud, trigger HDD recording and/or image capture, show message on screen, PTZ linkage, voice prompt, buzzer |
| Approvals | |
| Regulation: | CE, EAC, FCC, RoHS Compliant |
| Standard: | ONVIF (Profile S, Profile G, Profile T), SDK/API |
| MTBF at 25° C: | >60.000 hours |
| Environmental | |
| Operating Temperature: | -10 °C ~ +50 °C (+14°F ~ + 122°F) |

64 Channel Video Recorder GU-RN-AP8864N

GRUNDIG

Environmental

Humidity: Less than 90%, non condensing

Electrical

Supply Voltage: 100 ~ 240 VAC, 50Hz / 60Hz

Power Consumption: ≤ 8 W without harddisk

Mechanical

Dimensions: 440 × 460 × 89 mm (17.3 × 18.11 × 3.5 inch)

Weight: 7500 g (16.5 lb)

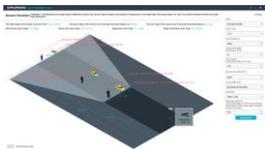
Packaging

Package Dimensions: 555 x 535 x 210 mm (21.9 x 21.1 x 8.3 inch)

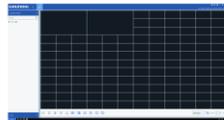
Package Weight: 9000 g (19.8 lbs)

Packaging Unit: 1

Accessories



GU-SW-INST-TOOL



GU-SW-VMS



GU-SW-IP-FINDER



GU-SW-PLAYER



GD-HW-HDD-2TB



GD-HW-HDD-4TB



GD-HW-HDD-6TB



GD-HW-HDD-8TB

Dimensions

Smart Line

In addition to the usual reliability, the SMART product line from GRUNDIG Security offers numerous image analysis functions, supported by artificial intelligence (AI). For example, use the LPR function to recognize license plates or facial recognition to identify people. Or reduce the number of false alarms by classifying objects as 'Vehicle', 'Person' or 'Other'. GRUNDIG Security's SMART cameras are able to detect people in crowds, count the number of heads and measure the length of queues, e.g. B. to be determined in the checkout area. In this way, they help you to use your resources optimally. They also inform you if unauthorized people cross predefined lines or enter certain areas.

Guarantee

All cameras in the "SMART", "PRO" and "PREMIUM" product lines have an extended warranty period of 5 years on electronic parts, mechanical wear and tear on moving parts is not included. Please note our general delivery terms and conditions.

Environmentally friendly packaging

Our environmentally friendly packaging with less colour print is made from 100% recyclable material. To save resources, our detailed operating instructions are available online for download. The quick reference guides that come with the devices are printed on 100% recycled paper.