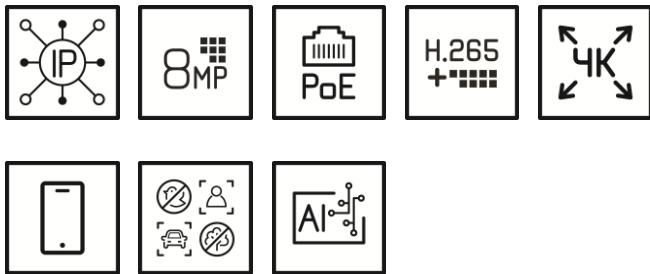**GRUNDIG**

GU-RN-AC8108P
8 Channel Network Video Recorder 8 Ch PoE Switch

● 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.

● Silent operation without any fans and low power consumption

● Controlled locally by USB mouse or remotely through Ethernet connection with CMS, Web page and mobile Apps, IVA support (intelligent virtual assistant) Amazon Alexa and Google Assistant

● NDAA compliant

SMART

● Product Line SMART: These products cover most applications of modern video systems plus advanced AI analytics

Item Code: GU-RN-AC8108P

EAN CODE: 4260573063932

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Specifications GU-RN-AC8108P

Video

IP Inputs:	8 channels

Recording / Playback

Recording Bandwidth:	128 Mbps
Outgoing Bandwidth:	128 Mbps
Recording Resolution:	8 MP, 5 MP, 3 MP, 1080p, 960p, 720p
Recording Mode:	Continuous, Event Alarm, Motion, 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. 8 cameras
Frame Rate(R):	4K: 45 fps, 4MP: 90fps, 2MP: 180 fps

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 10TB capacity for each HDD
Languages:	English, German, French, Spanish, Portuguese, Italian, Russia, Turkish
PTZ Control:	Pan, Tilt, Zoom, Preset set and call
Basic Internal Storage:	No
Accessories included:	Mouse & external power supply

Network

Video Compression:	H.264, H.264+, H.265, H.265+ , MJPEG
Cyber Security:	Different password levels, password protection, 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, Signed Firmware.
Remote Connections:	96
Streaming Method:	Unicast, Multicast

I/O Interface

HDMI Output:	4K (3840 × 2160), 2K (2560 × 1440), 1920 × 1080, 1600 x 1200, 1900 x 1200, 1440 x 900, 1280 × 1024, 1280 × 720, 1024 × 768
VGA Output:	1920×1080, 1600 x 1200, 1900 x 1200, 1440 x 900, 1280×1024, 1280×720, 1024 x768
Audio Input/Output:	1-ch audio input and 1-ch audio output
Alarm Input/Output:	8/1
Harddisk bay:	1 x SATA 2.0, 1 x eSATA

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I/O Interface

Network Interface:	1x 10, 100, 1000 Base T, TX (RJ-45)
Power over Ethernet:	8 independent 10, 100 Mbps PoE Ethernet interfaces
Supported ISO Standard:	PoE IEEE 802.3 af, at
PoE Budget:	58 W
Serial Interface(s):	Front panel: 1 × USB 2.0, Rear panel: 1 × USB 2.0, 1 x RS485

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 XCMS 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), SDK/API

Environmental

Operating Temperature:	-10 °C ~ +50 °C (+14°F~ + 122°F)
Humidity:	Less than 90%, non condensing

Electrical

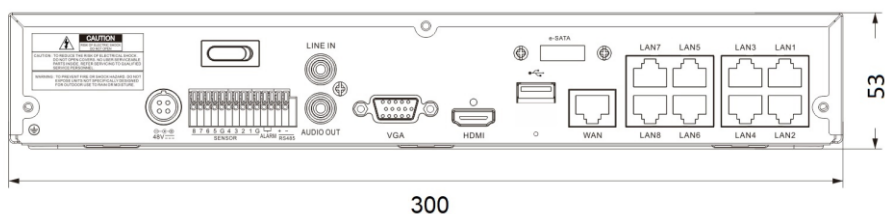|	
Supply Voltage:	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included
Power Consumption:	≤ 6 W without harddisk

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Mechanical

Dimensions:	300 x 227 x 53 mm (11.81 x 8.93 x 2.08 Inch)
Weight:	1000 g (2.2 lb)

Dimensions:

300

53

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