



Type: PTZ Dome - IP - Camera
Item Code: GU-CI-AP5647P
EAN CODE: 4260573064878

SMART

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

Highlights

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.

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.

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

- Reduction of unwanted alarms (false alarms) by classifying target objects using deep learning algorithms. This significantly reduces false alarms generated by objects other than people or vehicles. This makes finding events easier and saves hard drive capacity
- Many AI functions integrated such as face detection, intrusion detection, object counting, queues, heat map and much more

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-CI-AP5647P**Camera**

Image Sensor:	1/2.7" progressive Scan CMOS
Video Resolution:	2592 x 1944
Sensitivity Colour:	0.003 Lux @ F1.6 (AGC ON)
Sensitivity B/W:	0 Lux LED IR on
Shutter Speed:	1/5 ~ 1/20000 s
Slow Shutter:	Support
White Balance:	Auto , Manual

Lens

Lens Focal Length:	4.3 ~ 142 mm motorized, autofocus
Iris F-Number:	F1.6
Optical Zoom Ratio:	33x
Field of View:	55° ~ 2.3° (horizontal), 42° ~ 1.7° (vertical), 68° ~ 2.8° (diagonal)

Illuminator

Max. IR Distance:	Up to 150m
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Video

Col/B&W:	Auto (Electronic) , Colour , B&W
Wide Dynamic Range:	120 dB
Image Enhancement:	BLC, 3D DNR, HLC
Image Settings:	Rotate mode, Saturation, Brightness, Contrast, Sharpness and white balance adjustable by client software or web browser
Day/Night Switch:	Support auto, scheduled, day, night, Image

Audio

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

Network

Functions:	Anti-flicker, mirror, password protection, privacy mask, watermark
Video Compression:	H.264, H.264+, H.265, H.265+ , MJPEG
H.264 code profile:	Baseline Profile / Main Profile / High Profile
Bit Rate:	8 Kbps to 8 Mbps
SD Memory:	Built-in Micro SD, SDHC, SDXC slot from 32 up to 256 GB

Network

Frame Rate:	Main Stream 50 Hz: 25 fps (2592 × 1944, 2592 × 1520, 2048 × 1536, 2304 × 1296, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2592 × 1944, 2592 × 1520, 2048 × 1536, 2304 × 1296, 1920 × 1080, 1280 × 960, 1280 × 720) Sub Stream 50 Hz: 25 fps (1280 × 720, 640 × 480, 320 × 240) 60 Hz: 30 fps (1280 × 720, 640 × 480, 320 × 240) 3. Stream 50 Hz: 25 fps (640 × 480, 320 × 240) 60 Hz: 30 fps (640 × 480, 320x240)
Network Protocol:	TCP/IP, IPv4/IPv6, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, PPPoE, SNMP
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.

Pan Tilt Zoom

Number of Privacy Zones:	4 zones, rectangle
Number of Patrols:	1 Scan / 4 Tours
Number of Pattern:	4 pattern scans, record time over 10 minutes for each scan
Number of Preset:	255
Pan Speed:	Configurable, from 0.6°/sec to 200°/sec, Preset Speed: 200°/sec
Tilt Speed:	Configurable from 0.6°/sec to 90°/sec, Preset Speed: 100°/sec
Range Panning:	360° endless
Range Tilting:	-10° ~ 90° (auto flip) 215° total
Tracking Functions:	Manual Tracking, Auto Tracking

I/O Interface

CVBS Output:	1-ch, BNC (1.0 Vp-p, 75 Ω) , resolution: PAL: 704 × 576, NTSC: 704 × 480
Audio Input/Output:	1-ch audio input and 1-ch audio output
Alarm Input/Output:	1, 1
Network Interface:	1x 10, 100 Base T (Ethernet), TX (RJ-45)
Serial Interface(s):	1x RS-485

Intelligent Functions

Motion Detection:	On, Off, Area Setting, Sensitivity
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:	Cross a pre-defined virtual line with target classification Pedestrian, Motor vehicle and non-motozed Vehicle. 4 different rules can be configured.
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
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
Limits of intelligent functions:	Only one of the AI functions can be selected at a time

Intelligent Functions

Event Source:	Video tampering, network disconnected, IP address conflicted, motion, various AI functions, sudden audio increase-decrease
Event Action:	Send E-mail, trigger alarm output, notify surveillance C-WERK, upload to FTP/NAS, trigger SD-card recording and/or image capture.

Approvals

Protection Rating:	IP66 (IEC 60529-2013)
Regulation:	CE, EAC, FCC, RoHS Compliant
Standard:	ONVIF (Profile S, Profile G, Profile T), SDK/API

Environmental

Operating Temperature:	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Humidity:	Less than 90%, non condensing

Electrical

Supply Voltage:	12 VDC, PoE (IEEE 802.3at)
Power Consumption:	Max. 25 W

Mechanical

Dimensions:	Ø 206 x 352 mm (Ø 8.13 x 13.85 inch)
Weight:	3800 g (8.4 lb)

Packaging

Package Dimensions:	295 x 290 x 570 mm (11.6 x 11.4 x 22.4 inch)
Package Weight:	6100 g (13.4 lbs)
Packaging Unit:	1

Accessories

GD-BR-AMA01



GD-BR-AMC04



GD-BR-AWJ04



GD-BR-AML06



GD-BR-AMP01



GD-BR-AMP04



GD-BR-AMP06



GD-BR-AMP07



GD-BR-AMS01



GD-BR-AMW08



GD-BR-AMW10



GD-BR-AWJ03

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.