Thermal & Optical IP-Camera 3.1 mm

GD-TI-BP1603V

GRUNDIG

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Type: Fixed Dome - Thermal Imaging - Camera
Item Code: GD-TI-BP1603V
EAN CODE: 4260573063215

PROFESSIONAL

The PROFESSIONAL product line comprehensively covers modern video systems and offers versatile solutions for various areas of application.

Highlights

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.

Features

- Dual Streaming with 1 infrared channel and 1 optical channel

- IP 66 Certification

- Audio Communication & Alarm Input / Output

- Picture in Picture - Partial image of infrared channel on the full image of optical channel

Specifications GD-TI-BP1603V

Thermal module	
Thermal Sensor:	Vanadium Oxide Uncooled Focal Plane Array
Resolution (Thermal):	160 x 120
IFOV:	5.48 mrad
NETD:	< 40 mk (@25° C, F=1.0)
Response Waveband:	8 μm to 14 μm
Detector Pitch:	17 μm
Focal Length (IR):	3.1 mm
Viewing Angle (IR):	50° x 37.2° (HxV)
MOD (Min. Object Distance):	0.2 m

Camera	
Image Sensor:	1/2.7" progressive Scan CMOS
Video Resolution:	2688 × 1520
Sensitivity Colour:	0.0176 Lux @ F2.25 (AGC ON)
Sensitivity B/W:	0.0035 Lux @ F2.25, (AGC ON)
Shutter Speed:	1 ~ 1/100,000 s

Lens	
Lens Focal Length:	4 mm
Field of View:	84° x 44.8° (HxV)

Illuminator	
Max. IR Distance:	Up to 15m
White Light Distance:	Up to 30 m
White LED:	Alarm/ Off

Video	
Wide Dynamic Range:	120 dB
Day/Night Switch:	Color, BW, Auto

Audio	
Audio Compression:	G722.1/G711ulaw/G711alaw/G726/MP2L2/PCM

General	
Measurement option:	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)
Object Temperature Range:	- 20°C to 150°C
Accuracy:	± 8°C
DRI Range:	Detection Range, Vehicles 1.4 m x 4.0 m: 280 m Detection Range, Humans 1.8 m x 0.5 m: 91 m Recognition Range, Vehilces 1.4 m x 4.0 m: 70 m Recognition Range, Humans 1.8 m x 0.5 m: 23 m Identification Range, Vehicles 1.4 m x 4.0 m: 35 m Identification Range, Humans 1.8 m x 0.5 m: 11 m
Smart Function Range:	VCA Range, Vehicles 1.4 m x 4.0 m: 43 m VCA Range, Hu mans 1.8 m x 0.5 m: 15 m Temperature Measurement, Object 2 x 2 m: 66 m Temperature Measurement, Object 1 x 1 m: 33 m

Frame Rate

Main Stream:	Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240) Optical: 50 Hz: 25 fps (2688 × 1520, 1920 × 1080, 1280 × 720) 60 Hz: 30 fps (2688 × 1520, 1920 × 1080, 1280 × 720)
Sub- Stream:	Thermal: 25 fps (704 × 576, 352 × 288, 320 × 240) Optical: 50 Hz: 25 fps (704 × 576, 352 × 288) 60 Hz: 30 fps (704 × 480, 352 × 240)

Network

Video Compression:	H.264, H.265, MJPEG
SD Memory:	Micro SD/SDHC/SDXC card slot with ANR (up to 256G), NAS (Support NFS, SMB/CIFS)
Client software:	C-WERK Viewer, SCMS, IOS App, Android App (SCMS)
Web Browser:	Plug-in required live view: IE10/IE11 Non Plug-in live view: Chrome 57+, Mozilla Firefox 52+ Local Service: Chrome 57+, Firefox 52+
Network Protocol:	TCP/IP, IPv4, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, Bonjour, UDP, PPPoE, SNMP
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-TLS), 802.1X authentication (EAP-MD5), Watermark, IP Adress 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. Brute Force Delay Protection, Signed Firmware, Secure Boot by software check

I/O Interface

Audio Input/Output:	1-ch audio input and 1-ch audio output
Alarm Input/Output:	1, 1
Network Interface:	1x 10, 100 Base T, TX PoE (RJ-45)
Serial Interface(s):	1x RS-485

Intelligent Functions

Intrusion Detection:	Enter and loiter in a pre-defined virtual region
Line Crossing:	Cross a pre-defined virtual line
Region Entrance:	Enter a pre-defined virtual region from the outside place
Region Exiting:	Exit from a pre-defined virtual region
Event Source:	Sudden Audio loss, network disconnected, IP address conflicted, HDD full, HDD error, illegal login, alarm input , line crossing, intrusion, human & vehicle target classification
Event Action:	Recording: Pre-event, post-event memory card and/or network storage. Picture upload: FTP, HTTP and NAS. Trigger E-mail notification: HTTP, ISAPI. Audio alarm, white light alarm, alarm output and notification to C-WERK VMS. Events are depending on schedule settings.

Approvals

Protection Rating:	IP66 (IEC 60529-2013)
Standard:	ONVIF (Profile S, Profile G, Profile T), SDK/API

Environmental

Operating Temperature:	-40 °C ~ 65 °C (-40 °F ~ 149 °F)
Humidity:	Less than 95%, non condensing

Electrical

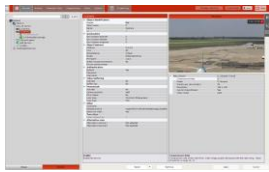|	
Surge Protection:	TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
Supply Voltage:	12 VDC, PoE (IEEE 802.3af)
Power Consumption:	Max. 6 W

Mechanical

Dimensions:	Ø 138 × 121 mm (Ø 5.45 × 4.85 inch)
Weight:	955 g (2.11 lb)

Packaging

Package Dimensions:	250 x 225 x 145 mm (9.8 x 8.9 x 5.7 inch)
Package Weight:	1400 g (3.1 lbs)
Packaging Unit:	12
Bulk Package Dimensions:	535 x 484 x 480 mm (21.1 x 19.1 x 18.9 inch)
Bulk Package Weight:	17300 g (38.1 lbs)

Accessories

GD-CW-VIEWER

GD-CW-FINDER

GD-SW-SCMS

GD-HW-SD-128GB

GD-HW-SD-256GB

GD-BR-AJX01

GD-BR-AMP15

GD-BR-AMW16

GD-BR-AWJ06

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.