INTELLIGENT VIDEO SURVEILLANCE
Product Guide 2024

GRUNDIG

What should a video surveillance system of today be able to deliver?

Many small to medium-sized systems can manage without any special requirements. Often, it's enough just to save video sequences, so that in case of an incident the course of events can be determined in the light of the recordings. For standard applications like this, GRUNDIG Security offers a comprehensive range: cameras that supply perfect high-resolution images, irrespective of the light conditions, and recorders that store video sequences for weeks or months when required, even if this is rarely done today for reasons of data privacy.

So much for standard applications. But the unique thing about GRUNDIG Security is the uncomplicated forensic search function of the GRUNDIG Video Management System powered by C-WERK®. This makes it possible for you to find the recordings that really interest you in a gigantic archive of video data, with no effort at all and in next to no time.

As an installer or end user of the new GRUNDIG products and solutions, what can you expect? Leaving our tried and tested reliability aside, you will also find a whole lot of image analysis functions, for the most part supported by artificial intelligence (AI). And there's a lot of functionality available. You can use facial recognition, for instance, to recognise people, or the LPR function to identify vehicle licence plates. Or you can quite simply reduce the frequency of false alarms signalling a spurious break-in or perimeter breach, by classifying objects as 'vehicle', 'person' or 'other'.

Cameras from GRUNDIG Security can see whether your employees are wearing the mandatory helmets or protective gear. They can recognise faces in crowds of people, count heads and determine the length of queues at your supermarket till, so helping you to make the best possible use of your resources. What is more, they can even read body language. If a person shows an unusual or unnatural posture, an alarm will be triggered. So, you will be warned in good time, before your cash machine risks being blown sky-high.

These are just a few examples out of a plethora of possibilities, which the exceptionally flexible video surveillance systems from GRUNDIG Security are able to offer.

So, if you want more than just pretty pictures and long recording times, please get in touch — we'll be happy to hear from you!

Content

5 Years Extended Guarantee

Grundig has launched a new 5-year Guarantee on "PRO" and "PREMIUM" cameras to further support customers and make project maintenance easier and more cost-effective.

Grundig takes quality seriously and puts a lot of effort into ensuring our products are both innovative and reliable. To give customers greater peace of mind, the 5-year Guarantee will be added for pro premium product on electronic parts from 1 January 2021. Mechanical wear and tear on moving parts is not included. Please note our general delivery terms and conditions.

24 Hour Recording File Size

- 100 % — H.264
- -50 % — H.265
- -75 % — H.265+
- -87,5 % — H.265 pro+
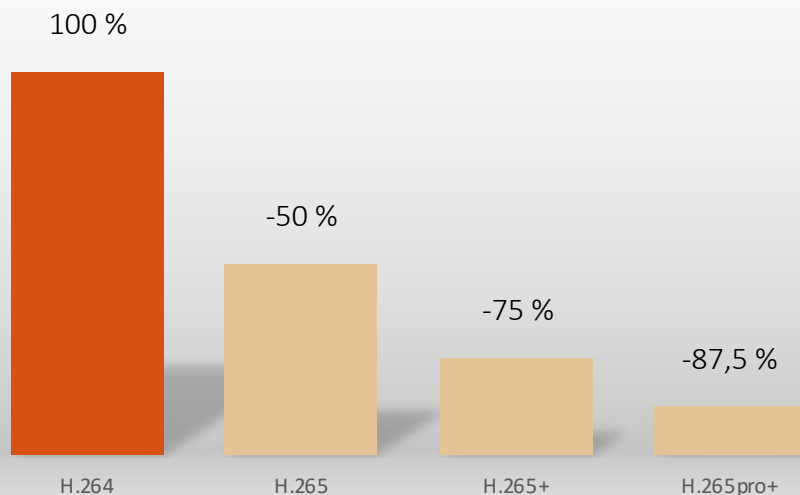
H.265pro+

Ultra HD security cameras have been in production for a while but were not immediately adopted and widespread because they require excessive transmission bandwidth and enormous storage capacity. The problem can be solved by using H.265pro+ encoding technology, which uses an average of about 87.5 % of the bit rate of H.264. As the bit rate of the recorded video material is greatly reduced, the bandwidth and storage costs are also reduced. H.265pro+ is based on the standard format H.265/ High Efficiency Video Coding (HEVC). With H.265pro+, the video quality is close to that of H.265/HEVC, but reduces the required transmission bandwidth and storage capacity due to three key technologies: predictive coding, noise reduction and flexible bit rate control. It shows significant improvements in bandwidth reduction, data storage efficiency and the analysis of video content.

Many Grundig Recorders, Cameras and Video Management Software have deep Learning Analytics Functions

The rapid development of algorithms, neural networks, human-machine interfaces and computing power is now taking deep learning applications to a new level. Deep learning has also reached the security industry and enables a number of solutions, not only to improve the security of the company premises and to efficiently suppress unwanted alarms. The benefits of deep learning for attribute recognition and image classification make it extremely valuable in the security arena. It touches every aspect of the security industry — from face and vehicle recognition to behavior analysis. Deep learning is a type of machine learning that trains a computer to analyze human-like tasks like recognizing language, classifying images, recognizing objects, and even people's behavior. A real example are virtual assistants like Siri and Cortana, some of which are powered by artificial intelligence. Rather than organizing data to loop through predefined equations, deep learning sets basic parameters for the data and trains the computer to learn on its own by recognizing patterns using processing layers.

Cybersecurity

Grundig Security supports internationally recognized cyber security standards and best practices. We make extensive efforts to improve the network security of our products and solutions. We continue to improve and use open and transparent methods so that users can evaluate the cybersecurity features of Grundig products. You can find more detailed information on IT security in our product data sheets and our „White Paper Cybersecurity".

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	GD-CI-AP2605B	GD-CI-AT8505B	GD-CI-AP4617C	GD-CI-BC2615M	GD-CI-AC6614E	GD-CI-AP8617E	GD-CI-CP4637E
	Professional	Premium	Professional	Essential	Essential	Professional	Professional
Video Resolution	1920 x 1080	3840 × 2160	2688 × 1520	1920 x 1080	3200 x 1800	3840 × 2160	2688 × 1520
Sensitivity Colour	0.01 Lux @ F1.2 (AGC ON)	0.007 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)
Lens Focal Length	—	—	2.8 mm	3.7 mm	2.8 mm	2.8 mm	2.8 ~ 12 mm motorized, auto-focus
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	—	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	120 dB	120 dB	120 dB	120 dB	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC
Max. IR Distance	—	—	Up to 10 m	—	Up to 30 m	Up to 30 m	Up to 40 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.265, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	up to 128G, ANR Function	up to 256G, ANR Function	up to 128G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function
Video Outputs	1x CVBS (1 Vcc) BNC	1 CVBS Test Monitor output	—	1x CVBS (1 Vcc) BNC	—	—	1x CVBS (1 Vcc) BNC
Alarm Input/Output	yes	yes	—	yes	—	—	yes
Audio Input/Output	yes	yes	—	yes	—	Built-in microphone	yes
Intelligent Video Analytics	MD, PID, LCD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, SD	MD, PID, LCD, FD, VTD	—	MD, VTD	MD, PID, LCD, FD, PD & VD,VTD	MD, PID, LCD, FD, PD & VD,VTD
Surge Protection	—	—	—	—	—	—	TVS 2000V
Operating Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-10 °C ~ 50 °C (-14 °F ~ 122 °F)	-30 °C ~ +55 °C (-22 °F ~ 131 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Supply Voltage	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC ±10%	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 6 W	Max. 10 W	Max. 7 W	Max. 3 W	Max. 6.5 W	Max. 7.5 W	Max. 12,5 W

	GD-CI-CC2616V	GD-CI-EC4617V	GD-CI-FC4617V	GD-CI-CC4637V	GD-CI-AP4617V	GD-CI-CP4617W	GD-CI-DP4617W
	Essential	Essential	Essential	Essential	Professional	Professional	Professional
Video Resolution	1920 x 1080	2560 x 1440	2560 x 1440	2560 x 1440	2688 × 1520	2688 × 1520	2688 × 1520
Sensitivity Colour	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)
Lens Focal Length	2.8 mm	2.8 mm	4 mm	2.8 ~ 12 mm motorized, auto-focus	2.8 mm	2.8 mm	4 mm
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	72 db (Digital Wide Dynamic Range)	120 dB	120 dB	120 dB	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC
Max. IR Distance	Up to 30 m	Up to 30 m	Up to 30 m	Up to 30 m	Up to 30 m	Up to 30 m	Up to 30 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	—	—	—	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function
Video Outputs	—	—	—	—	—	—	—
Alarm Input/Output	—	—	—	—	yes	yes	yes
Audio Input/Output	—	—	—	—	yes	yes	yes
Intelligent Video Analytics	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, PID, LCD, FD, VTD	MD, PID, LCD, FD, PD & VD,VTD	MD, PID, LCD, FD, PD & VD,VTD
Surge Protection	—	—	—	—	TVS 2000V	—	—
Operating Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Supply Voltage	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 6.5 W	Max. 6.5 W	Max. 6.5 W	Max. 11.5 W	Max. 6.5 W	Max. 6.5 W	Max. 6.5 W
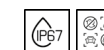
	GD-CI-AP2627V	GD-CI-CP4637V	GD-CI-AP6637V	GD-CI-BP8637V	GD-CI-BT4537VH	GD-CI-AT4634V	GD-CI-CT12617F
	Professional	Professional	Professional	Professional	Premium	Premium	Premium
Video Resolution	1920 x 1080	2688 × 1520	3200 x 1800	3840 × 2160	2688 × 1520	2688 × 1520	3504 x 3504
Sensitivity Colour	0.005 Lux @ F1.2 (AGC ON)	0.003 Lux @ F1.4 (AGC ON)	0.001 Lux @ F1.2 (AGC on, shutter speed 1/25 s)	0.003 Lux @ F1.4 (AGC ON)	0.0014 Lux @ F1.4 (AGC ON)	0.001 Lux @ F1.2 (AGC on, shutter speed 1/25 s)	0.006 Lux
Lens Focal Length	2.8 ~ 12 mm motorized, auto-focus	2.8 ~ 12 mm motorized, auto-focus	2.8 ~ 12 mm motorized, auto-focus	2.8 ~ 12 mm motorized, auto-focus	2.8 ~ 12 mm motorized, auto-focus	2.7 ~ 13.5 mm motorized, autofocus	1.29 mm
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	120 dB	120 dB	120 dB	120 dB	140 dB	130 dB	Digital WDR
Image Enhancement	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC, AWB, AGC, AES	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog, HLC	BLC, 3D DNR, Defog, HLC	BLC, 3D DNR, Defog, HLC
Max. IR Distance	Up to 30 m	Up to 40 m	Up to 40 m	Up to 40 m	Up to 40 m	Up to 40 m	Up to 15 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	up to 128G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 512G, ANR Function	up to 512G, ANR Function	up to 256G, ANR Function
Video Outputs	1 CVBS Test Monitor output	—	—	1 CVBS Test Monitor output	—	—	—
Alarm Input/Output	yes	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	yes	yes	yes	yes	yes
Intelligent Video Analytics	MD, PID, LCD, SOD, FD, VTD	MD, VTD, AD	MD, PID, LCD, FD, PD & VD,VTD	MD, PID, LCD, A-IN, A-OUT, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, VTD
Surge Protection	TVS 2000V	—	—	TVS 2000V	TVS 2000V	TVS 2000V	—
Operating Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
Supply Voltage	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 11 W	Max. 11 W	Max. 12,5 W	Max. 12,5 W	Max. 12,9 W	Max. 15 W	Max. 10 W
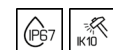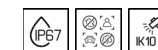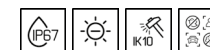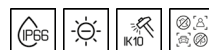
	GD-CI-CC2616T	GD-CI-DC2616T	GD-CI-EC4617T	GD-CI-FC4617T	GD-CI-CC4637T	GD-CI-AP2627T	GD-CI-AP4617T
	Essential	Essential	Essential	Essential	Essential	Professional	Professional
Video Resolution	1920 x 1080	1920 x 1080	2560 x 1440	2560 x 1440	2560 x 1440	1920 x 1080	2688 × 1520
Sensitivity Colour	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)
Lens Focal Length	2.8 mm	4 mm	2.8 mm	4 mm	2.8 ~ 12 mm motorized, auto-focus	2.8 ~ 12 mm motorized, auto-focus	4 mm
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	72 db (Digital Wide Dynamic Range)	72 db (Digital Wide Dynamic Range)	120 dB	120 dB	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC
Max. IR Distance	Up to 30 m	Up to 30 m	Up to 30 m	Up to 30 m	Up to 50 m	Up to 50 m	Up to 50 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	—	—	—	—	up to 256G	up to 128G, ANR Function	up to 128G, ANR Function
Video Outputs	—	—	—	—	—	1 CVBS Test Monitor output	—
Alarm Input/Output	—	—	—	—	—	yes	—
Audio Input/Output	—	—	—	—	—	yes	—
Intelligent Video Analytics	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, PID, LCD, SOD, FD, VTD	MD, PID, LCD, FD, VTD
Surge Protection	—	—	—	—	—	TVS 2000V	TVS 2000V
Operating Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Supply Voltage	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 6.5 W	Max. 6.5 W	Max. 6.5 W	Max. 6.5 W	Max. 12,9 W	Max. 17 W	Max. 9.5 W
	IP67	IP67	IP67	IP67	IP67	IP67 ☀ IK10	IP67

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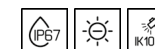
	GD-CI-AP4637T	GD-CI-AP6637T	GD-CI-BP8637T	GD-CI-CT4537TH	GD-CI-DT4637T	GD-CI-ET4637T
	Professional	Professional	Professional	Premium	Premium	Premium
Video Resolution	2560 x 1440	3200 x 1800	3840 × 2160	2688 × 1520	2688 × 1520	2688 × 1520
Sensitivity Colour	0.003 Lux @ F1.4 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.003 Lux @ F1.4 (AGC ON)	0.0014 Lux @ F1.4 (AGC ON)	0.0005 Lux @ F1.2 (AGC ON)	0.0005 Lux @ F1.2 (AGC ON)
Lens Focal Length	2.8 ~ 12 mm motorized, autofocus	2.8 ~ 12 mm motorized, autofocus	2.8 ~ 12 mm motorized, autofocus	2.8 ~ 12 mm motorized, autofocus	2.8 ~ 12 mm motorized, autofocus	8 ~ 32 mm motorized, autofocus
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	120 dB	120 dB	120 dB	140 dB	140 dB	140 dB
Image Enhancement	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, Defog, EIS, HLC
Max. IR Distance	Up to 60 m	Up to 60 m	Up to 60 m	Up to 60 m	Up to 50 m	Up to 100 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 512G, ANR Function	up to 1T, ANR Function	up to 1T, ANR Function
Video Outputs	—	—	—	—	1 CVBS Test Monitor output	1 CVBS Test Monitor output
Alarm Input/Output	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	yes	yes	—	—
Intelligent Video Analytics	MD, PID, LCD, A-IN, A-OUT, FD, PD & VD, VTD	MD, PID, LCD, FD, PD & VD,VTD	MD, PID, LCD, A-IN, A-OUT, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, LPR	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, LPR
Surge Protection	TVS 2000V	—	TVS 2000V	TVS 2000V	—	—
Operating Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
Supply Voltage	12 VDC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3at)	12 VDC, 24 VAC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3at)
Power Consumption	Max. 15 W	Max. 15 W	Max. 15 W	Max. 18 W	Max. 17 W	Max. 17 W

	GD-CI-ET4537TH	GD-CI-AT4634T	GD-CI-CT4537T	GD-CI-CT8637T	GD-CI-BT8537TH	GD-CI-AT12637T
	Premium	Premium	Premium	Premium	Premium	Premium
Video Resolution	2688 × 1520	2688 × 1520	2688 × 1520	3840 × 2160	3840 × 2160	4000 × 3000
Sensitivity Colour	0.0014 Lux @ F1.4 (AGC ON)	0.001 Lux @ F1.2 (AGC on, shutter speed 1/25 s)	0.009 Lux @ F1.6 (AGC ON)	0.002 Lux @ F1.2 (AGC ON)	0.004 Lux @ F1.2 (AGC ON)	0.009 Lux @ F1.2 (AGC ON)
Lens Focal Length	8 ~ 32 mm motorized, autofocus	2.7 ~ 13.5 mm motorized, autofocus	4.7 ~ 118 mm motorized, autofocus	8 ~ 32 mm motorized, autofocus	2.8 ~ 12 mm motorized, autofocus	8 ~ 32 mm motorized, autofocus
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	140 dB	130 dB	140 dB	120 dB	120 dB	Digital WDR
Image Enhancement	BLC, 3D DNR, Defog, HLC	BLC, 3D DNR, Defog, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog, EIS, HLC, Distortion Correction
Max. IR Distance	Up to 60 m	Up to 60 m	Up to 200m	Up to 100 m	Up to 60 m	Up to 100 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	up to 512G, ANR Function	up to 512G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function
Video Outputs	—	—	—	1 CVBS Test Monitor output	—	1 CVBS Test Monitor output
Alarm Input/Output	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	yes	—	yes	—
Intelligent Video Analytics	MD, PID, LCD, A-IN, A-OUT, SOD, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, FR, VTD, PD & VD, SD, AD	—	MD, PID, LCD, A-IN, A-OUT	MD, PID, PD & VD, FR, QD, CC, AD
Surge Protection	TVS 2000V	TVS 2000V	TVS 4000V	—	TVS 2000V	—
Operating Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
Supply Voltage	12 VDC, 24 VAC, PoE (IEEE 802.3at)	12 VDC, 24 VAC, PoE (IEEE 802.3at)	12 VDC, 24 VAC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3at)	12 VDC, 24 VAC, PoE (IEEE 802.3at)	12 VDC, PoE (IEEE 802.3at)
Power Consumption	Max. 18 W	Max. 15 W	Max. 12 W	Max. 18 W	Max. 15 W	Max. 18 W

GRUNDIG

GD-CI-AT30516Q   GD-CI-AT20527Q
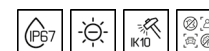
	GD-CI-AT30516Q	GD-CI-AT20527Q
	Premium	Premium
Video Resolution	8160 x 3616	2560 × 1920
Sensitivity Colour	0.009 Lux @ F1.2 (AGC ON)	0.006 Lux @ F1.2 (AGC ON)
Lens Focal Length	4 x 3 mm	4 x movable lenses 2.8 ~ 12 mm motorized, autofocus
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	Digital WDR	120 dB
Image Enhancement	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, EIS, HLC
Max. IR Distance	Up to 20 m	Up to 30 m
Video Compression	H.264, H.264+, H.265, H.265+, MJPEG	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	up to 128G, ANR Function	up to 128G, ANR Function
Video Outputs	—	—
Alarm Input/Output	yes	yes
Audio Input/Output	yes	yes
Intelligent Video Analytics	PID, LCD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, SD
Surge Protection	—	—
Operating Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)
Supply Voltage	24 VAC, PoE+ (IEEE 802.3at)	12 VDC, 24 VAC, PoE (IEEE 802.3bt)
Power Consumption	Max. 25 W	Max. 34 W

IP67   IK10   IP67   IK10

DEWARP

Dewarping is used to equalize an all-around image of a „fisheye camera". With dewarping, the respectively selected image area is converted for the viewer in the respective dimensions and the selected viewing angle — and thus equalized. You control the view like a pan / tilt camera or you can view the scene in several windows in a panoramic view.

The Dewarp function is also supported from the GRUNDIG NVRs of the Pro-and Premium-series.

GD-CI-BT12617F with Immervision® panomorph optical design outperforms all competing technologies.

	GD-CI-AC4637P	GD-CI-CP2647P	GD-CI-CP2747P	GD-CI-AP4647P	GD-CI-AP4747P	GD-CI-CT4747P	GD-CI-BT4747P	GD-CI-AT8747P
	Essential	Professional	Professional	Professional	Professional	Premium	Premium	Premium
Image Sensor	1/2.8" progressive Scan CMOS	1/2.8" progressive Scan CMOS	1/2.8" progressive Scan CMOS	1/2.8" progressive Scan CMOS	1/1.8" progressive Scan CMOS	1/1.8" progressive Scan CMOS	1/1.8" progressive Scan CMOS	1/1.8" progressive Scan CMOS
Video Resolution	2560 x 1440	1920 x 1080	1920 x 1080	2560 x 1440	2560 x 1440	2560 x 1440	2688 × 1520	3840 × 2160
Sensitivity Colour	0.005 Lux @ F1.5 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.5 (AGC ON)	0.001 Lux @ F1.2 (AGC ON)	0.001 Lux @ F1.2 (AGC ON)	0.005 Lux
Lens Focal Length	2.8 ~ 12 mm motorized, autofocus	4.8 ~ 120 mm motorized, autofocus	4.8 ~ 153 mm motorized, autofocus	4.8 ~ 120 mm motorized, autofocus	5.9 ~ 188.8 mm motorized, autofocus	6 .0 ~ 252 mm, 42x Optical Zoom	6 .0 ~ 252 mm, 42x Optical Zoom	6 .0 ~ 252 mm, 42x Optical Zoom
Optical Zoom Ratio	4x	25x	32x	25x	32x	42x	42x	42x
Col/B&W	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)	Removable IR-Cut Filter (ICR)
Number of Privacy Zones	24 programmable zones	24 programmable zones	24 programmable zones	24 programmable zones	24 programmable zones	24 programmable zones	24 programmable zones	24 programmable zones
Image Enhancement	BLC, 3D DNR, Defog, HLC	BLC, 3D DNR, Defog,HLC, AGC, Regional Exposure, Regional Focus	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus, Rapid Focus	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus, Rapid Focus
Max. IR Distance	Up to 20 m	Up to 50 m	Up to 200m	Up to 100 m	Up to 200m	Up to 400m	Up to 400m	Up to 500m
SD Memory	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function
Video Outputs	—	—	—	—	—	1x CVBS (1 Vcc) BNC	1x CVBS (1 Vcc) BNC	1x CVBS (1 Vcc) BNC
Alarm Input/Output	—	yes	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	yes	yes	yes	yes	yes	yes
Surge Protection	TVS 4000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V
Operating Temperature	-20 ℃ ~ 60 ℃ (-4 ℉ ~ 140 ℉)	-30 ℃ ~ +65 ℃ (-22 ℉ ~ 149 ℉)	-40 ℃ ~ 65 ℃ (-40 ℉ ~ 149 ℉)	-30 ℃ ~ +65 ℃ (-22 ℉ ~ 149 ℉)	-30 ℃ ~ +65 ℃ (-22 ℉ ~ 149 ℉)	-40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉)	-40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉)	-40 ℃ ~ 70 ℃ (-40 ℉ ~ 158 ℉)
Supply Voltage	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3at)	24 VAC, Hi-PoE (IEEE 802.3bt)	12 VDC, PoE (IEEE 802.3at)	24 VAC, Hi-PoE (IEEE 802.3bt)	24 VAC, Hi-PoE (IEEE 802.3bt)	24 VAC, Hi-PoE (IEEE 802.3bt)	24 VAC, Hi-PoE (IEEE 802.3bt)
Power Consumption	Max. 12 W	Max. 24 W	Max. 42 W	Max. 18 W	Max. 42 W	Max. 60W	Max. 60W	Max. 60W
Power Consumption	Max. 12 W	Max. 18 W	Max. 42 W	Max. 18 W	Max. 42 W	Max. 60W	Max. 60W	Max. 60W

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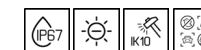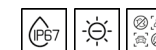
	GD-TI-AP1614V	GD-TI-BP1603V	GD-TI-BP1603T	GD-TI-BP1606T	GD-TI-BP1610T	GD-TI-AP4503T	GD-TI-AP4507T
	Professional	Professional	Professional	Professional	Professional	Professional	Professional
Thermal Sensor	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array
Resolution (Thermal)	160 x 120	160 x 120	160 x 120	160 x 120	160 x 120	256 x 192	256 x 192
NETD	< 40 mk (@25° C, F=1.0)	< 40 mk (@25° C, F=1.0)	< 40 mk (@25° C, F=1.0)	< 40 mk (@25° C, F=1.0)	< 40 mk (@25° C, F=1.0)	< 40 mk (@25° C, F=1.0)	< 40 mk (@25° C, F=1.0)
Viewing Angle (IR)	90° x 66.4° (HxV)	50° x 37.2° (HxV)	50° x 37.2° (HxV)	25° x 18.7° (HxV)	15.96° x 12° (HxV)	50° x 37.2° (HxV)	24.5° x 18.5° (HxV)
Detector Pitch	17 μm	17 μm	17 μm	17 μm	17 μm	12 μm	12 μm
Image Sensor	1/2.7" progressive Scan CMOS	1/2.7" progressive Scan CMOS	1/2.7" progressive Scan CMOS	1/2.7" progressive Scan CMOS	1/2.7" progressive Scan CMOS	1/2.7" progressive Scan CMOS	1/2.7" progressive Scan CMOS
Video Resolution	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520
Sensitivity Colour	0.0176 Lux @ F2.25 (AGC ON)	0.0176 Lux @ F2.25 (AGC ON)	0.0176 Lux @ F2.25 (AGC ON)	0.0176 Lux @ F2.25 (AGC ON)	0.0176 Lux @ F2.25 (AGC ON)	0.0089Lux @ F1.6 (AGC ON)	0.0089Lux @ F1.6 (AGC ON)
Lens Focal Length	2.1 mm	4 mm	4 mm	8 mm	8 mm	4.3 mm	6.4 mm
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Accuracy	± 8°C	± 8°C	± 8°C	± 8°C	± 8°C	± 8°C	± 8°C
Measurement option	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)
Intelligent Video Analytics	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke
Operating Temperature	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)
Supply Voltage	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)
Power Consumption	Max. 6 W	Max. 6 W	Max. 6.5 W	Max. 6.5 W	Max. 6.5 W	Max. 8.2 W	Max. 8.2 W

	GD-TI-AP4510T	GD-TI-AT2604T	GD-TI-AT2607T	GD-TI-AT2610T	GD-TI-CT2510T	GD-TI-AT3607T	GD-TI-AT3625T
	Professional	Premium	Premium	Premium	Premium	Premium	Premium
Thermal Sensor	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array	Vanadium Oxide Uncooled Focal Plane Array
Resolution (Thermal)	256 x 192	384 x 288	384 x 288	384 x 288	384 x 288	640 x 512	640 x 512
NETD	< 40 mk (@25° C, F=1.0)	< 35 mk (@25° C, F=1.0)	< 35 mk (@25° C, F=1.0)	< 35 mk (@25° C, F=1.0)	< 35 mk (@25° C, F=1.0)	< 35 mk (@25° C, F=1.0)	< 35 mk (@25° C, F=1.0)
Viewing Angle (IR)	18° x 13.5° (HxV)	60° x 44.1° (HxV)	42° x 32° (HxV)	26° x 20° (HxV)	37.5° x 28.5° (HxV)	88,5° x 73,2° (HxV)	24.5° x 18.5° (HxV)
Detector Pitch	12 μm	12 μm	12 μm	12 μm	17 μm	17 μm	17 μm
Image Sensor	1/2.7" progressive Scan CMOS	—	—	—	1/2.7" progressive Scan CMOS	—	—
Video Resolution	2688 × 1520	—	—	—	2688 × 1520	—	—
Sensitivity Colour	0.0089Lux @ F1.6 (AGC ON)	—	—	—	0.0089Lux @ F1.6 (AGC ON)	—	—
Lens Focal Length	8 mm	—	—	—	4 mm	—	—
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Accuracy	± 8°C	± 8°C	± 8°C	± 8°C	± 8°C	± 8°C	± 8°C
Measurement option	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)	Support 3 temperature measurement rule types, 21 rules (10 points, 10 regions and 1 line)
Intelligent Video Analytics	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke	PID, LCD, A-IN, A-OUT, PD & VD, Smoke
Operating Temperature	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)
Supply Voltage	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 8.2 W	Max. 5.5 W	Max. 5 W	Max. 5.5 W	Max. 9.5 W	Max. 5 W	Max. 5 W
	IP67	IP66	IP66	IP66	IP67	IP66	IP66

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	GD-RN-BC2004P	GD-RN-BC2416N	GD-RN-BC2416P	GD-RN-BP8616P	GD-RN-BP8632N
	Essential	Essential	Essential	Professional	Professional
Recorders I IP I Standalone NVR	4 channels	16 channels	16 channels	16 channels	32 channels
Recording Bandwidth	max. 40 Mbps	160 Mbps	160 Mbps	160 Mbps	256 Mbps
Outgoing Bandwidth	80 Mbps	max. 160 Mbps	max. 160 Mbps	256 Mpbs	256 Mpbs
Recording Resolution	Max. 12 MP	Max. 12 MP	Max. 12 MP	Max. 32 MP	Max. 32 MP
Video Compression	H.264, H.264+, H.265, H.265+	H.264, H.264+, H.265, H.265+	H.264, H.264+, H.265, H.265+	H.264, H.264+, H.265, H.265+	H.264, H.264+, H.265, H.265+
Recording Mode	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule
Search Mode	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup
External Backup	USB HDD, USB Memory, DVD-R, Network	USB HDD, USB Memory, DVD-R, Network	USB HDD, USB Memory, DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network
HDMI Output	4K (3840x2160)	4K (3840x2160)	4K (3840x2160)	4K (3840x2160)	4K (3840x2160)
Harddisk bay	1 x SATA III	2 x SATA	2 x SATA	4 x SATA III, 1 x eSATA	4 x SATA III, 1 x eSATA
Max. Storage Capacity	Up to 10TB capacity for each HDD (not mandatory)	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD, max 40TB in total	Up to 10TB capacity for each HDD, max 40TB in total
Disk Array type	—	—	—	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)
Audio Inputs	—	4 contact input N/O or N/C	4 contact input N/O or N/C	16 contact input N/O or N/C	16 contact input N/O or N/C
Alarm Inputs	—	1	1	9	9
Alarm Outputs	4 independent 10, 100 Mbps PoE Ethernet interfaces	—	16 independent 10, 100 Mbps PoE Ethernet interfaces	16 independent 10, 100 Mbps PoE Ethernet interfaces	—
Power over Ethernet	—	—	—	19-inch rack-mounted, 1.5U	19-inch rack-mounted, 1.5U
Chassis	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz
Supply Voltage	≤ 10 W without harddisk and PoE off	≤ 15 W without harddisk	≤ 15 W without harddisk and PoE off	≤ 30W without hard disks	≤ 30W without hard disks

	GD-RN-CT8832N	GD-RN-AT819128N
	Premium	**Premium**
Recorders I IP I Standalone NVR	32 channels	128 channels
Recording Bandwidth	320Mpbs or 200Mbps (when RAID is enabled)	576 Mbps
Outgoing Bandwidth	256 Mpbs or 200 Mbp (when RAID is enabled)	512 Mpbs
Recording Resolution	Max. 12 MP	Max. 12 MP
Video Compression	H.264, H.264+, H.265, H.265+ , MPEG4	H.264, H.264+, H.265, H.265+ , MPEG4
Recording Mode	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule
Search Mode	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup
External Backup	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network
HDMI Output	HMDI1: 4K (3840 × 2160 HDMI2: 1920 × 1080p	HMDI1: 4K (3840 × 2160 HDMI2: 1920 × 1080p
Harddisk bay	8 x SATA III	16 x SATA III, 1 x e-SATA
Max. Storage Capacity	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD
Disk Array type	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)
Audio Inputs	16 contact input N/O or N/C	16 contact input N/O or N/C
Alarm Inputs	4	8
Alarm Outputs	—	—
Power over Ethernet	19-inch rack-mounted, 2U	19-inch rack-mounted, 3U
Chassis	2 x 100 ~ 240 VAC, 50Hz / 60Hz redundant power supply	2 x 100 ~ 240 VAC, 50Hz / 60Hz redundant power supply
Supply Voltage	Max. 550 W, 30W without harddisk	Max. 500 W, 140 W without harddisk

GRUNDIG ANALYTICS

Embedded video analytics and intelligence can greatly improve the efficiency of your security personnel and offer insights to improve operations.

Protect your premises and gain business intelligence into traffic patterns and trends. Count objects, cars or people entering and exiting a specific area to determine the proper staffing needed during peak traffic times. Automatically monitor areas where no objects or people are to be present and alert for instant action to be taken.

Scan QR Code
for video example

Line Crossing Detection. Cross a pre-defined virtual line.

Intrusion Detection. Enter and loiter in a pre-defined virtual region.

Region Entrance. Enter a pre-defined virtual region from the outside place.

Region Exiting. Exit from a pre-defined virtual region.

Object (People) Counting.

Unattended Baggage and Object Removal. Objects left over in the pre-defined region such as the baggage, purse, dangerous materials. Video verification and real-time alerts when objects have been placed or removed from a field of view.

Heat Map. Graphical representation of density of visit in a configured area. Easily identify traffic patterns and trends to improve product placement, promotional graphics and staffing.

Face Detection. Human face appears in the image can be detected and trigger linkage method.

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	GD-RX-AP1416R	GD-RX-AP2424R	GD-RX-AP2432R	GD-RX-AP3448R	GD-RX-AP2464R	GD-RX-AP2496R
	Professional	**Professional**	**Professional**	**Professional**	**Professional**	**Professional**
Number of cameras	16 channel (extendable with CAM licences)	24 channel (extendable with CAM licences)	32 channel (extendable with CAM licences)	48 channel (extendable with CAM licences)	64 channel (extendable with CAM licences)	96 channel (extendable with CAM licences)
Operating System	Microsoft® Windows 11 Pro 64-bit	Microsoft® Windows 11 Pro 64-bit	Microsoft® Windows 11 Pro 64-bit	Microsoft® Windows 11 Pro 64-bit	Microsoft® Windows 11 Pro 64-bit	Microsoft® Windows 11 Pro 64-bit
CPU	Intel® Core™ i5-10400, 6 Cores, 12 Threads, 12 MB Cache, 2.90 GHz Base Frequency, 4.30 GHz Turbo Frequency	Intel® Core™ i5-10400, 6 Cores, 12 Threads, 12 MB Cache, 2.90 GHz Base Frequency, 4.30 GHz Turbo Frequency	Intel® Core™ i5-10400, 6 Cores, 12 Threads, 12 MB Cache, 2.90 GHz Base Frequency, 4.30 GHz Turbo Frequency	Intel® Core™ i5-10400, 6 Cores, 12 Threads, 12 MB Cache, 2.90 GHz Base Frequency, 4.30 GHz Turbo Frequency	Intel® Core™ i5-13400, 10 Cores, 16 Threads, 20 MB Cache, 2.50 GHz Base Frequency, 4.60 GHz Turbo Frequency	Intel® Core™ i5-13400, 10 Cores, 16 Threads, 20 MB Cache, 2.50 GHz Base Frequency, 4.60 GHz Turbo Frequency
Video Compression	H.264, H.264+, H.265, H.265+ , MJPEG	H.264, H.264+, H.265, H.265+ , MJPEG	H.264, H.264+, H.265, H.265+ , MJPEG	H.264, H.264+, H.265, H.265+ , MJPEG	H.264, H.264+, H.265, H.265+ , MJPEG	H.264, H.264+, H.265, H.265+ , MJPEG
Harddisk bay	6x SATA	6x SATA	6x SATA	6x SATA	6x SATA	6x SATA
Supply Voltage	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz
Power Consumption	Max. 400 W	Max. 400 W	Max. 400 W	Max. 400 W	Max. 400 W	Max. 400 W

C·WERK®

The GRUNDIG Security Video Management System powered by C-WERK is the advanced solution for video security systems in virtually all areas of application. C-WERK sets new standards, especially with its simple and user-friendly operation. Regardless of the requirements, C-WERK can cope effectively with almost any challenge: with logical, systematic, and especially user-friendly implementation. The C-WERK platform is completely scalable and modular, and it features open system architecture. The simple license model enables individual solutions: you'll only pay for what you need.

The GRUNDIG VMS powered by C-WERK is based on an end-to-end concept with a unified software solution throughout: ranging from IP camera / recorder freeware to a video management solution for extensive, complex video facilities.
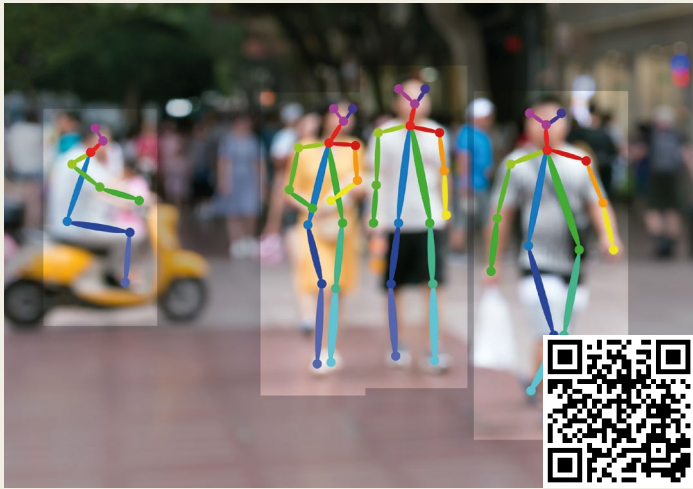
Scan the QR codes to start videos.
For more information please check www.c-werk.com

TIME LAPSE

Time Lapse is a tool that allows the user to display all moving actions of a predetermined period in a single video. This significantly reduces the effort of finding a particular scene.

BEHAVIOUR ANALYTICS

The intelligent Behaviour Analytics of C-WERK recognizes potentially dangerous situations by detecting specific human postures. The software identifies the positions of the body parts to detect the pose. This will improve the security for example schools, airports, banks, commercial spaces, or office buildings.

SOME IMPORTANT FEATURES OF C-WERK VIDEO MANAGEMENT SOLUTIONS

Forensic Search is an impressive tool that searches for certain scenes or objects about self-determined properties such as object size, color, speed and direction. It is also possible to search specifically for people or vehicles.

SIMILARITY SEARCH

The analysis function extracts human attributes such as colour and type of clothing, shoes and headwear, and stores them in a database. Search results display people with similar attributes (e.g. red shirt) from the video footage of several cameras and from archived material.
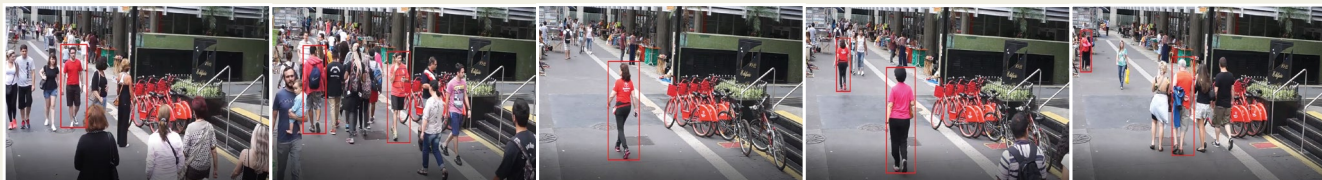
FACE SEARCH

Face Search allows recognizing and identifying faces. In addition, it is possible to compare the recognized face with an already existing photo to carry out further automated actions.

LPR SEARCH

License Plate Recognition allows system operators to identify, track and analyse vehicles at entry and exit points. Automatically capture license plates in both, stop & go and moving traffic to review later or automatically open barriers or denies access removing the need of a dedicated LPR operator.

C·WERK®

PROFESSIONAL

The professional solution covering most applications for advanced video systems

PREMIUM

Designed for comprehensive solutions with special, unique performance characteristics

ULTRA

The large scale solution for an unlimited number of server connections, includes offline analytics

Open Platform VMS by C-WERK

C-WERK is best-in-class, new-generation Video Management Software that is based on open standards to offer a truly open platform. C-WERK's reliability, performance, and convenience are unmatched on the market. Experience unprecedented flexibility and freedom of configuration: unlimited number of video servers, video cameras, workstations and mobile client devices, and more than 10.000 IP devices are all supported. Thanks to the program's application programming interface (API), C-WERK allows easily integrating third-party hardware to extend your video system's functionality yet further. The advanced ergonomic interface makes all functions intuitively easy to use and find. A transparent customer-oriented pricing policy means that you can take advantage of the program's full functionality, no matter the size of your system.

C-WERK Highlights

- Unlimited number of cameras, servers and remote clients

- Support for more than 10.000 IP devices

- Advanced video analytics with AI detection

- Unique tools for fast video footage retrieval

- Flat pricing — easy to budget and save

- Zero maintenance fees

- Similarity search function

- Free viewer software with C-WERK VIEWER
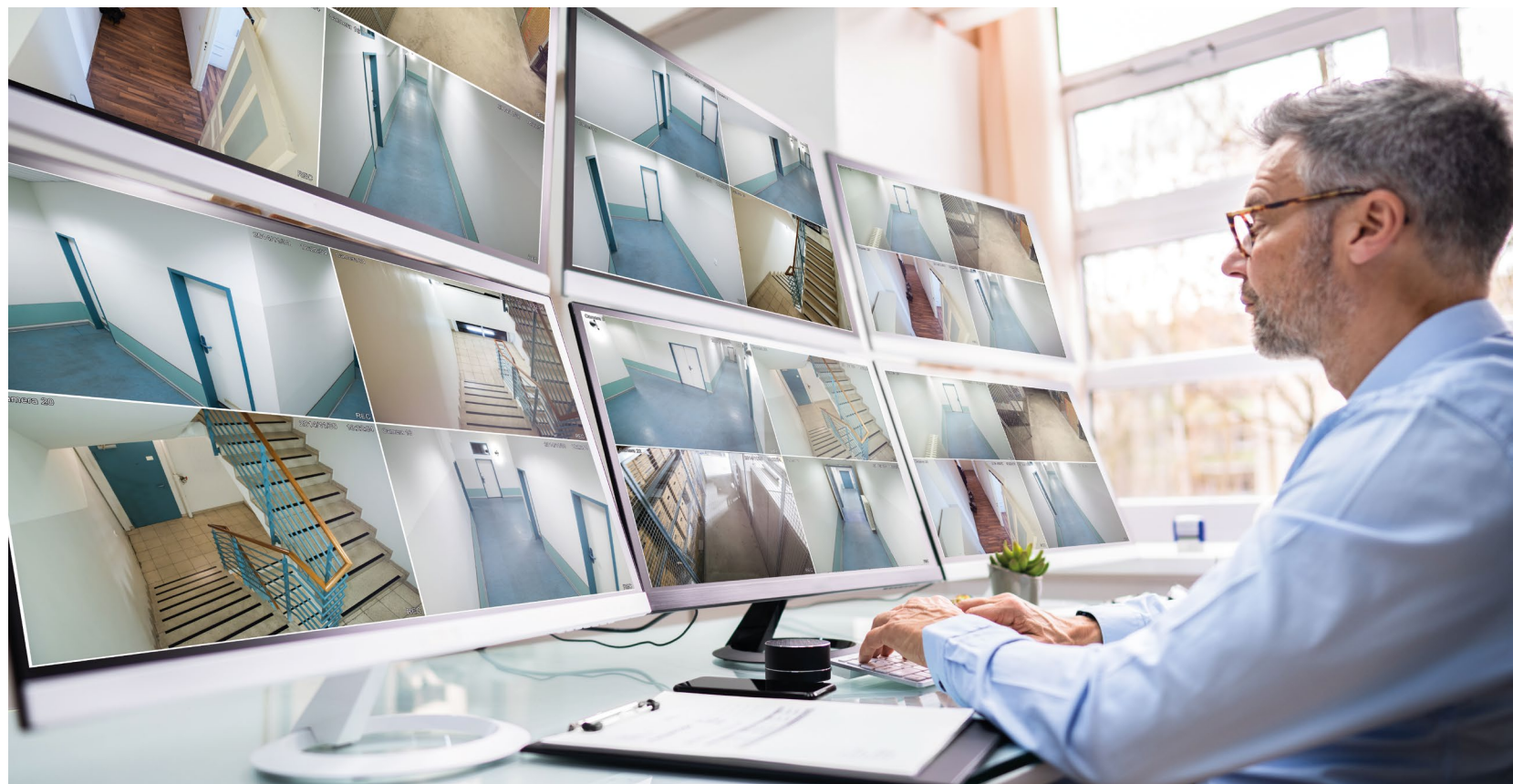
C-WERK mobile App

The client App allows connecting to C-WERK Servers from mobile devices. The App supports receiving live video & audio from cameras, playback of recorded videos, controling PTZ-cameras, receiving push notifications about events in the system and many more functions.

The C-WERK App is available
for iOS and Android.
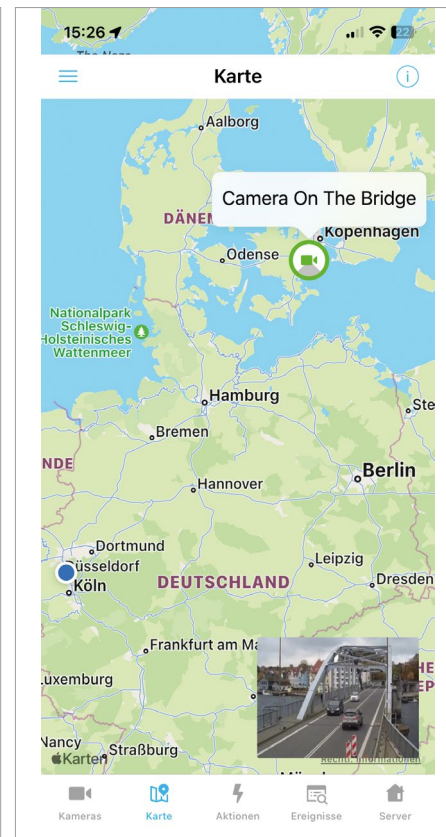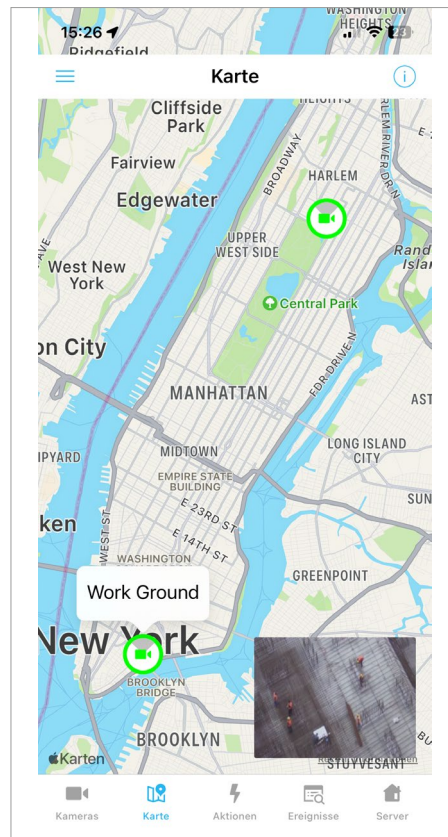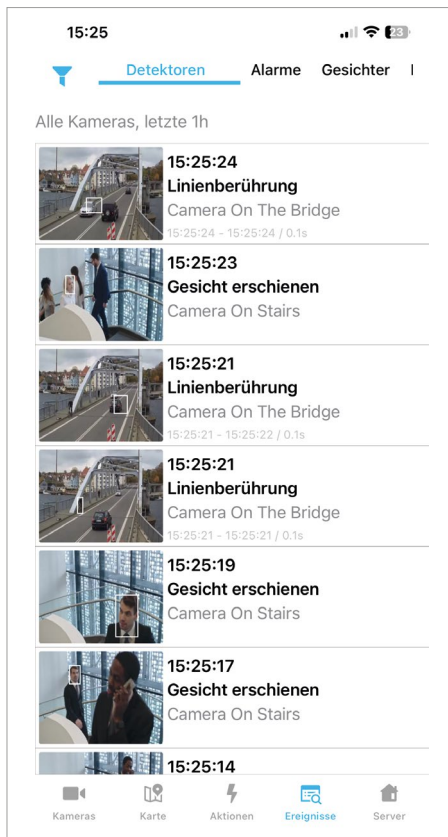
C-WERK Cloud

C-WERK Cloud is a service by Grundig enabling you to:

- Securely connect to the Web Server

- Store and activate licenses

- Send E-Mails letting you know when a macro is triggered

- View & export recordings from edge devices

- Send push messages to clients

C-WERK Licenses

ITEM CODE	DESCRIPTION	PRODUCT LINE
Camera License		
GD-CW-AP-CAM	C-WERK Pro Single-Channel Camera License	PROFESSIONAL
GD-CW-AT-CAM	C-WERK Premium Single-Channel Camera License	PREMIUM
GD-CW-AU-CAM	C-WERK Ultra Single-Channel Camera License	ULTRA
Extension License		
GD-CW-AP-SRC	C-WERK Pro Source License	PROFESSIONAL
GD-CW-AT-SRC	C-WERK Premium Source License	PREMIUM
GD-CW-AU-SRC	C-WERK Ultra Source License	ULTRA
GD-CW-AP-IFS	C-WERK Pro Forensic Search License	PROFESSIONAL
Upgrade		
GD-CW-AP-CAM-PLUS	C-WERK Essential to Professional Camera License Upgrade	PROFESSIONAL
GD-CW-AT-CAM-PLUS	C-WERK Professional to Premium Camera License Upgrade	PREMIUM
GD-CW-AU-CAM-PLUS	C-WERK Premium to Ultra Camera License Upgrade	ULTRA
Additional modules		
GD-CW-AP-LPS	C-WERK Pro License Realtime License Plate Recognition slow	PROFESSIONAL
GD-CW-AP-LPF	C-WERK Pro License Realtime License Plate Recognition fast	PROFESSIONAL
GD-CW-AP-FRT	C-WERK Pro License Realtime Face Recognition for 1 Video Channel	PROFESSIONAL
GD-CW-AP-FRT10	C-WERK Pro License Realtime Face Recognition for 10 Video Channels	PROFESSIONAL
GD-CW-AP-HBA	C-WERK Pro License Realtime Behavior Analytics	PROFESSIONAL
GD-CW-AP-PPE	C-WERK Pro License Personal Protective Equipment Recognition for 1 Camera	PROFESSIONAL
GD-CW-AP-WLDE	C-WERK Pro License Water Level Recognition for 1 Camera	PROFESSIONAL

ITEM CODE	DESCRIPTION	PRODUCT LINE
GD-CW-AT-LPS	C-WERK Premium License Realtime License Plate Recognition slow	PREMIUM
GD-CW-AT-LPF	C-WERK Premium License Realtime License Plate Recognition fast	PREMIUM
GD-CW-AT-FRT	C-WERK Premium License Realtime Face Recognition for 1 Video Channel	PREMIUM
GD-CW-AT-FRT10	C-WERK Premium License Realtime Face Recognition for 10 Video Channels	PREMIUM
GD-CW-AT-HBA	C-WERK Premium License Realtime Behavior Analytics	PREMIUM
GD-CW-AT-PPE	C-WERK Premium License Personal Protective Equipment Recognition	PREMIUM
GD-CW-AT-WLD	C-WERK Premium License Water Level Recognition for 1 Camera	PREMIUM
GD-CW-AT-SIM	C-WERK Premium License Similarity Search for 1 Camera	PREMIUM
GD-CW-AT-OFS	C-WERK Premium Offline Forensic Search License	PREMIUM
GD-CW-AU-LPS	C-WERK Ultra License Realtime License Plate Recognition slow	ULTRA
GD-CW-AU-LPF	C-WERK Ultra License Realtime License Plate Recognition fast	ULTRA
GD-CW-AU-FRT	C-WERK Ultra License Realtime Face Recognition for 1 Video Channel	ULTRA
GD-CW-AU-FRT10	C-WERK Ultra License Realtime Face Recognition for 10 Video Channels	ULTRA
GD-CW-AU-HBA	C-WERK Ultra License Realtime Behavior Analytics	ULTRA
GD-CW-AU-PPE	C-WERK Ultra License Personal Protective Equipment Recognition	ULTRA
GD-CW-AU-WLD	C-WERK Ultra License Water Level Recognition for 1 Camera	ULTRA

Content of License Packages

C·WERK®

FUNCTION	PROFESSIONAL	PREMIUM	ULTRA
Number of Cameras	unlimited	unlimited	unlimited
Number of Servers	30	30	unlimited
Thumbnail search	✓	✓	✓
Alarm search	✓	✓	✓
Bookmarking (with text search)	✓	✓	✓
3D Maps	✓	✓	✓
Web browser client	✓	✓	✓
IOS & Android Apps	✓	✓	✓
C-WERK Cloud Service	✓	✓	✓
Fisheye Dewarping	✓	✓	✓
Edge Analytics (camera metadata)	✓	✓	✓
Blue Stream (Bandwidth Management)	✓	✓	✓
H.265	✓	✓	✓
ONVIF profile G,S, T	✓	✓	✓
Edge Storage (Read only from SD-card or HDD)	✓	✓	✓
Event Makros	✓	✓	✓
Free Software Updates	✓	✓	✓
Cross System Client	✓	✓	✓
Time Lapse	✓	✓	✓
Data replication	—	✓	✓
Video Wall	—	✓	✓
LDAP Service	—	✓	✓
Edge Storage copy	—	✓	✓
Failover	—	✓	✓

FUNCTION	PROFESSIONAL	PREMIUM	ULTRA
Real-time Analysis (Object Tracker)	✓	✓	✓
C-WERK Data Reports	✓	✓	✓
Face Recognition	optional (GD-CW-AP-IFS)	✓	✓
Face Mask Detection	optional (GD-CW-AP-IFS)	✓	✓
LPR Detection	optional (GD-CW-AP-IFS)	✓	✓
Fire Detection	optional (GD-CW-AP-IFS)	✓	✓
Smoke Detection	optional (GD-CW-AP-IFS)	✓	✓
AI Human/Vehicle Detection	optional (GD-CW-AP-IFS)	✓	✓
Retail Pack (Visitors Counter, Queue Detection, Heat Map)	optional (GD-CW-AP-IFS)	✓	✓
Forensic Search Function	optional (GD-CW-AP-IFS)	✓	✓
Tag & Track	optional (GD-CW-AP-IFS)	✓	✓
LPR Search	optional (GD-CW-AP-IFS)	✓	✓
Face search	optional (GD-CW-AP-IFS)	✓	✓
Multicamera Search	—	✓	✓
Similarity Search	—	optional (GD-CW-AP-SIM)	✓
Offline Analytics	optional (GD-CW-AT-OFS)	optional (GD-CW-AT-OFS)	✓
Realtime-LPR 6 fps	optional (GD-CW-AP-LPS)	optional (GD-CW-AT-LPS)	optional (GD-CW-AU-LPS)
Realtime-LPR 25 fps	optional (GD-CW-AP-LPF)	optional (GD-CW-AT-LPF)	optional (GD-CW-AU-LPF)
Realtime-Face Recognition	optional (GD-CW-AP-FRT)	optional (GD-CW-AT-FRT)	optional (GD-CW-AU-FRT)
Pose Detection	optional (GD-CW-AP-HBA)	optional (GD-CW-AT-HBA)	optional (GD-CW-AU-HBA)
Personal Protective Equipment	optional (GD-CW-AP-PPE)	optional (GD-CW-AT-PPE)	optional (GD-CW-AU-PPE)
Water Level Detection	optional (GD-CW-AP-WLD)	optional (GD-CW-AT-WLD)	optional (GD-CW-AU-WLD)
Neural Counter	—	optional (GD-CW-AT-AINC)	optional (GD-CW-AU-AINC)
Administration of external Events (Alarm I/O, POS, etc.)	optional (GD-CW-AP-SRC)	optional (GD-CW-AT-SRC)	optional (GD-CW-AU-SRC)

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	GD-HW-APSV08R	GD-HW-APSV012R	GD-HW-APSV024R	GD-HW-BPSV04T	GD-HW-BPSV05T	GD-HW-BPSV06T
	Professional	Professional	Professional	Professional	Professional	Professional
CPU	Intel® Xeon® E-2224, 4 Cores, 4 Threads, 8 MB Cache, 3.4 GHz Base Frequency, 4.6 GHz Turbo Frequency	Intel® Xeon® E-2274G, 4 Cores, 8 Threads, 8 MB Cache, 4.0 GHz Base Frequency, 4.9 GHz Turbo Frequency	Intel® Xeon® E-2274G, 4 Cores, 8 Threads, 8 MB Cache, 4.0 GHz Base Frequency, 4.9 GHz Turbo Frequency	Intel® Core™ i5-9400, 6 Cores, 6 Threads, 9 MB Cache, 2.90 GHz Base Frequency, 4.10 GHz Turbo Frequency	Intel® Core™ i7-10700K, 8 Cores, 16 Threads, 16 MB Cache, 3.80 GHz Base Frequency, 5.10 GHz Turbo Frequency	Intel® Core™ i9-10900X, 10 Cores, 20 Threads, 19.25 MB Cache, 3.70 GHz Base Frequency, 4.50 GHz Turbo Frequency
Graphic Card	Onboard Graphics	Onboard Graphics	Onboard Graphics	NVIDIA Quadro P1000 PNY, 4 GB, GDDR5	NVIDIA Quadro P1000 PNY, 4 GB, GDDR5	NVIDIA Quadro P1000 PNY, 4 GB, GDDR5
Memory	16 GB	16 GB	16 GB	8 GB DDR4	8 GB DDR4	2x 8 GB DDR4
Operating System	Windows Server 2022 Essentials	Windows Server 2022 Essentials	Windows Server 2022 Essentials	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit
Network Interface	2x RJ45 Gbit LAN	2x RJ45 Gbit LAN	2x RJ45 Gbit LAN	1x RJ45 Gbit LAN	1x RJ45 Gbit LAN	2x RJ45 Gbit LAN
Operating Temperature	+5 °C ~ +40 °C (+41°F~ + 104°F)	+5 °C ~ +40 °C (+41°F~ + 104°F)	+5 °C ~ +40 °C (+41°F~ + 104°F)	+5 °C ~ +40 °C (+41°F~ + 104°F)	+5 °C ~ +40 °C (+41°F~ + 104°F)	+5 °C ~ +40 °C (+41°F~ + 104°F)
Supply Voltage	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz
Power Consumption	600 W	2x 800W	2x 650 W	450 W	450 W	450 W

GD-HW-HDD-4TB	Professional	Server HDD 4TB Western Digital Purple
GD-HW-HDD-8TB	Professional	Server HDD 8TB Western Digital Purple
GD-HW-HDD-6TB	Professional	Server HDD 6TB Western Digital Purple
GD-HW-HDD-10TB	Professional	Server HDD 10TB Western Digital Purple
GD-HW-HDD-12TB	Professional	Server HDD 12TB Western Digital Purple

	GD-HW-ACSW04D	GD-HW-ACSW08D	GD-HW-ACSW16R	GD-HW-ACSW24R
	Essenial	Essenial	Essenial	Essenial
Ports	1 x 10/100 Base-T Hi-PoE RJ45(Auto-MDI/MDI-X) 3 x 10/100 Base-T PoE RJ45(Auto-MDI/MDI-X) 2 x 10/100 RJ45 (Auto-MDI/MDI-X)	1 x 10/100 Base-T Hi-PoE RJ45(Auto-MDI/MDI-X) 7 x 10/100 Base-T PoE RJ45(Auto-MDI/MDI-X) 2 x 10/100/1000 RJ45 (Auto-MDI/MDI-X)	16 x 10/100/1000 Base-T PoE RJ45(Auto-MDI/MDI-X) 2 Gigabit SFP fiber optical ports	24 x 10/100/1000 Base-T PoE RJ45(Auto-MDI/MDI-X) 2 Gigabit SFP fiber optical ports
PoE Specification	"Port 1: 802.3af/at, 802.3bt Port 2 to 4: 802.3af/at"	"Port 1: 802.3af/at, 802.3bt Port 2 to 8: 802.3af/at"	802.3af/at (PSE)	802.3af/at (PSE)
Switching Method	Store and Forward	Store and Forward	Store and Forward	Store and Forward
Switch Throughput	1.2 Gbps	5.6 Gbps	36 Gbps	52 Gbps
MAC Address Table	2K	16K	8K	8K
ISO Standard	IEEE 802.3, IEEE 802.3u, IEEE 802.3x	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z	IEEE 802.3, IEEE 802.3u, IEEE 802.3x	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3ab, IEEE 802.3z
PoE Budget	60 W	110 W	125 W	225 W
Max power Output per Port	Port 1: 60 watts max Port 2 to 4: 30 watts max	Port 1: 90 watts max Port 2 to 8: 30 watts max	54V DC, 30 watts max	54V DC, 30 watts max
Fan	Fanless	Fanless	Fanless	Temperature-controlled
Material	Metal	Metal	Metal	Metal
Operating Temperature	-10°C ~ +55°C (+14°F ~ + 131°F)	-10°C ~ +55°C (+14°F ~ + 131°F)	-10°C ~ +55°C (+14°F ~ + 131°F)	-10°C ~ +55°C (+14°F ~ + 131°F)
Supply Voltage	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz
Power Consumption	Max. power consumtion 65W Power consumtion in idle 5W	Max. power consumtion 120W Power consumtion in idle 10W	Max. power consumtion 150W Power consumtion in idle 25W	Max. power consumtion 250W Power consumtion in idle 25W

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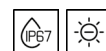|	GD-CT-AC2105B	GD-CT-AC2113E	GD-CT-AP2117E	GD-CT-CC2126V	GD-CT-AP2837V	GD-CT-CP2837V	GD-CT-AP5826V
	Essential	Essential	Professional	Essential	Professional	Professional	Professional
Image Sensor	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	5 Megapixel progressive scan CMOS
Pixels-Effective	1920 (H) x 1080 (V)	1984 (H) x 1105 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2560 (H) × 1944 (V)
Sensitivity Colour	0.005 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.005 Lux @ F1.2	0.01 Lux @ F1.2 (AGC ON)	0.003 Lux @ F1.2 (AGC ON)	0.003 Lux @ F1.2 (AGC ON)	0.008 Lux @ F1.2 (AGC ON)
Sensitivity B/W	—	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on
Lens Focal Length	—	2.8 mm	2.8 mm	2.7 ~ 13.5 mm	2.7 ~ 13.5 mm motorized, autofocus	2.7 ~ 13.5 mm motorized, autofocus	2.8 ~ 12 mm motorized
Col/B&W	Auto (Electronic), Color, B&W	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto (Electronic), Color, B&W	Auto, IR-cut filter removable (ICR)
Wide Dynamic Range	120 dB	Digital WDR	130 dB	Digital WDR	130 dB	130 dB	Digital WDR
Image Enhancement	BLC, 3D DNR, Mirror,AGC, WDR, Defect Pixel Correction	BLC, 2D DNR, Anti-Flicker, Mirror, AGC	BLC, 3D DNR, Anti-Flicker, Mirror, AGC, WDR, Brightness, Sharpness, Smart-IR	BLC, 2D DNR, AGC, HLC, Global	BLC, 3D DNR, Anti-Flicker, Mirror, AGC, WDR, Brightness, Sharpness, Smart-IR	BLC, 3D DNR, HLC	BLC, 2D DNR, Anti-Flicker, Mirror, AGC
Max. IR Distance	—	Up to 20 m	Up to 20 m	Up to 40 m	Up to 60 m	Up to 60 m	Up to 30 m
Video Outputs	1x HD-TVI (BNC) , 1x Composite 1.0Vp-p 75 OHM (BNC)	1x HD-TVI (BNC)	1x HD-TVI (BNC)	4 in 1 Switch between TVI, AHD, CVI and CVBS	1x HD-TVI (BNC)	1x HD-TVI (BNC)	1x HD-TVI (BNC)
Regulation	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant
Operating Temperature	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)
Supply Voltage	12 VDC ±10%	12 VDC ±10%	12 VDC ±10%	12 VDC ±10%	12 VDC ±15%, PoC.af	12 VDC ±15%, PoC.af	12 VDC ±15%, PoC.af
Power Consumption	Max. 4 W	Max. 4 W	Max. 4.5 W	Max. 5 W	Max. 7 W	Max. 7 W	Max. 8 W
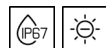
	GD-CT-BC2116T	GD-CT-BC2126T	GD-CT-AP2837T	GD-CT-BP5837T	GD-CT-BP2247P
	Essential	Essential	Professional	Professional	Professional
Image Sensor	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS	5 Megapixel progressive scan CMOS	2 Megapixel progressive scan CMOS
Pixels-Effective	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	2560 (H) × 1944 (V)	1920 (H) x 1080 (V)
Sensitivity Colour	0.01 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.003 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)
Sensitivity B/W	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on	0 Lux LED IR on
Lens Focal Length	3.6 mm	2.7 ~ 13.5 mm	2.7 ~ 13.5 mm motorized, autofocus	2.7 ~ 13.5 mm motorized	4.8 ~ 120 mm motorized, autofocus
Col/B&W	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)	Auto, Color, B&W, IR-cut filter removable (ICR)
Wide Dynamic Range	Digital WDR	Digital WDR	130 dB	Digital WDR	120 dB
Image Enhancement	BLC, 2D DNR, Anti-Flicker, Mirror, AGC	BLC, 2D DNR, AGC, HLC, Global	BLC, 3D DNR, HLC, Anti-Flicker, Mirror, AGC, WDR, Brightness, Sharpness, Smart-IR	BLC, 2D DNR, AGC, HLC, Global	BLC, 3D DNR, EIS, HLC
Max. IR Distance	Up to 20 m	Up to 40 m	Up to 80 m	Up to 40 m	Up to 150m
Video Outputs	1x HD-TVI (BNC)	4 in 1 Switch between TVI, AHD, CVI and CVBS	1x HD-TVI (BNC) , 1x Composite 1.0Vp-p 75 OHM (BNC) WDR off	1x HD-TVI (BNC)	Switchable TVI/AHD/CVI/CVBS video output, (NTSC or PAL composite, BNC)
Regulation	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant
Operating Temperature	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)
Supply Voltage	12 VDC ±10%	12 VDC ±10%	12 VDC ±15%, PoC.at	12 VDC ±15%, PoC.at	24 VAC, 50, 60Hz
Power Consumption	Max. 4 W	Max. 5 W	Max. 8.2 W	Max. 9.5 W	Max. 30 W
	IP66	IP67	IP67 ☀	IP67	IP66

GRUNDIG

|	GD-RT-BC3004N	GD-RT-BC3008N	GD-RT-BC3016N	GD-RT-AP5004P	GD-RT-AP8008P	GD-RT-AP8016N
	Essential	Essential	Essential	Professional	Professional	Professional
Video Inputs	4-ch, BNC	8-ch, BNC	16-ch, BNC	4-ch, BNC	8-ch, BNC, supporting PoC	16-ch, BNC
HD-TVI Input	4MP, 3 MP, 1080p30, 1080p25	3 MP, 1080p30	3 MP, 1080p30	8 MP, 5 MP, 4 MP, 3 MP, 1080p30	8 MP, 5 MP, 4 MP, 3 MP, 1080p30	8 MP, 5 MP, 4 MP, 3 MP, 1080p30
AHD Input	4 MP, 1080p25, 1080p30	4 MP, 1080p25, 1080p30	4 MP, 1080p25, 1080p30	5 MP, 4 MP, 1080p30	5 MP, 4 MP, 1080p30	5 MP, 4 MP, 1080p30
CVI Input	4 MP, 1080p30	4 MP, 1080p30	4 MP, 1080p30	4 MP, 1080p30	4 MP, 1080p30	5MP, 4 MP, 1080p30
CVBS Input	PAL, NTSC	PAL, NTSC	PAL, NTSC	PAL, NTSC	PAL, NTSC	PAL, NTSC
IP Inputs	5 (6 IP enhance mode)	4 (12 IP enhance mode)	18 (24 IP enhance mode)	6 (8 IP enhance mode)	12 (16 IP enhance mode)	24 (32 IP enhance mode)
Recording Resolution	4 MP, 3 MP, 1080p, 720p, WD1, 4CIF (when 1080P lite not enabled)	4 MP, 3 MP, 1080p, 720p, WD1, 4CIF (when 1080P lite not enabled)	4 MP, 3 MP, 1080p, 720p, WD1, 4CIF (when 1080P lite not enabled)	8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF	8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF	8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF
Video Compression	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265pro, H.265pro+
Recording Mode	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule
Search Mode	Date, Time, Event Alarm, Motion, Search Backup, Quick search by object or event type	Date, Time, Event Alarm, Motion, Search Backup, Quick search by object or event type	Date, Time, Event Alarm, Motion, Search Backup, Quick search by object or event type	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup
External Backup	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, Network
Motion Detection	On, Off, Area Setting	On, Off, Area Setting	On, Off, Area Setting	On, Off, Area Setting	On, Off, Area Setting	On, Off, Area Setting
HDMI Output	1920×1080, 60Hz, 1280×1024, 60Hz, 1280×720, 60Hz, 1024×768, 60Hz	1920×1080, 60Hz, 1280×1024, 60Hz, 1280×720, 60Hz, 1024×768, 60Hz	1920×1080, 60Hz, 1280×1024, 60Hz, 1280×720, 60Hz, 1024×768, 60Hz	1920×1080, 60Hz, 1280×1024, 60Hz, 1280×720, 60Hz, 1024×768, 60Hz	4K (3840 × 2160)/30Hz	4K (3840 × 2160)/30Hz
Harddisk bay	1 x SATA III	1 x SATA III	1 x SATA III	1 x SATA III	2 x SATA III	2 x SATA III
Max. Storage Capacity	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD (not mandatory)	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD
PoC Interface	—	—	—	4-ch	8-ch	—
Alarm Inputs	—	—	—	4 contact input N/ O or N/ C	8 contact input N/ O or N/ C	16 contact input N/ O or N/ C
Alarm Outputs	—	—	—	1	4	1
Supply Voltage	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included
Power Consumption	≤ 18 W without harddisk	≤ 18 W without harddisk	≤ 24W without hard disks	≤ 40 W without harddisk	≤ 60 W without hard disk, PoC	≤ 19 W without hard disks

|	GD-RT-AP8016P	GD-RT-AT8016N
	Professional	**Premium**
Video Inputs	16-ch, supporting PoC	16-ch, BNC
HD-TVI Input	8 MP, 5 MP, 4 MP, 3 MP, 1080p30	8 MP, 5 MP, 4 MP, 3 MP, 1080p30
AHD Input	5 MP, 4 MP, 1080p30	5 MP, 4 MP, 1080p30
CVI Input	4 MP, 1080p30	4 MP, 1080p30
CVBS Input	PAL, NTSC	PAL, NTSC
IP Inputs	24 (32 IP enhance mode)	18, up to 8 MP
Recording Resolution	8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF	8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF
Video Compression	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265pro, H.265pro+
Recording Mode	Continuous, Event Alarm, Motion, Video Loss, Schedule	Continuous, Event Alarm, Motion, Video Loss, Schedule
Search Mode	Date, Time, Event Alarm, Motion, Search Backup	Date, Time, Event Alarm, Motion, Search Backup
External Backup	USB HDD, USB Memory, USB DVD-R, Network	USB HDD, USB Memory, USB DVD-R, Network, eSATA
Motion Detection	On, Off, Area Setting	On, Off, Area Setting
HDMI Output	4K (3840 × 2160)/30Hz	HDMI1 & VGA: 1920 × 1080, 60Hz HDMI2: 4K (3840 × 2160)
Harddisk bay	2 x SATA III	4 x SATA III, 1 x eSATA
Max. Storage Capacity	Up to 10TB capacity for each HDD	Up to 10TB capacity for each HDD
PoC Interface	16-ch	—
Alarm Inputs	4 contact input N/ O or N/ C	16 contact input N/ O or N/ C
Alarm Outputs	1	4
Supply Voltage	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz
Power Consumption	≤ 140 W without hard disk , PoC	≤ 65W without hard disks
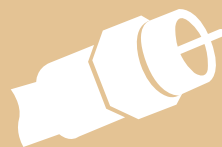
POWER OVER COAXIAL (POC)

PoC

With the Power over Coaxial (PoC) option the camera can be powered by the DVR via coaxial video cable. This makes the usage of separate cables and power supplies needless which would otherwise be needed to power your cameras. For installers this means a much more time and cost-efficient installation.

PoC can be used on cable runs up to 800 meters for a 5 MP-camera (depending on cable type) and is available in 4, 8 and 16 channel DVRs (models ending with -P). A full complement of GRUNDIG TVI PoC-cameras is also available which together offer a cost effective and time saving solution to your TVI installations.

MIGRATION FROM ANALOGUE COAXIAL CABLE TO IP SOLUTIONS

GRUNDIG offers the most efficient and cost-effective upgrade from existing video security systems to high-resolution technology solutions. Depending on the existing cable and technology in place, with GRUNDIG you can upgrade your system using high-resolution cameras, display and recording. With high-definition TVI-cameras you can replace analogue standard-resolution cameras by high-resolution cameras and can upgrade from your existing embedded system to a TVI embedded recorder — which enhances your equipment from a 0.5 to a 5 Megapixel resolution system.
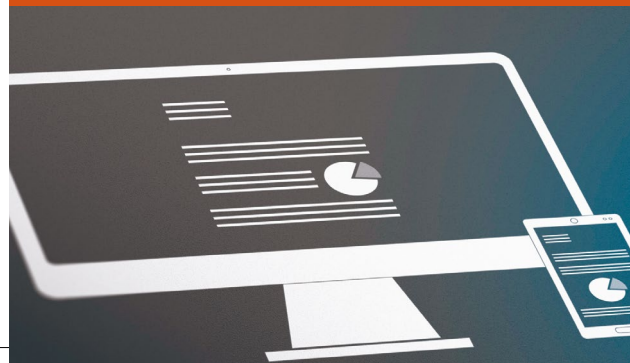
GRUNDIG embedded recorders are ONVIF profile G compatible and can be managed by the GRUNDIG Video Management System of by any other third-party VMS.

GRUNDIG HD-TVI recorders operate with all common analogue standards such as CVBS, 960H, CVI, AHD and of course HD-TVI — up to 8 Megapixel resolution. And even more: In addition, IP camera channels are available to mix all front-end technologies on site.

GRUNDIG

	GD-ML-AP1031SD	GD-ML-DP2230HD	GD-ML-DP2430HD	GD-ML-DP2730HD
	Professional	Professional	Professional	Professional
LCD Panel size	25.6 cm (10.1") Diagonal AM-TFT LED Backlight	54.6 cm (21, 5") Diagonal AM-TFT LED Backlight	59.9 cm (23.6") Diagonal AM-TFT LED Backlight	68.5 cm (27") Diagonal AM-TFT LED Backlight
Pixels-Total	1280 (H) x 800 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Pixel Pitch	0.192 mm (H) x 0.192 mm (V)	0.248 mm (H) x 0.248 mm (V)	0.248 mm (H) x 0.248 mm (V)	0.248 mm (H) x 0.248 mm (V)
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9
Video Standard	PAL, NTSC	PAL, NTSC	PAL, NTSC	PAL, NTSC
Video Inputs	1x Composite, BNC looped, 1x VGA, 1x HDMI	1x HDMI, 1x VGA, 1x USB	1x HDMI, 1x VGA, 1x USB	1x HDMI, 1x VGA, 1x USB
Brightness	350 cd, m²	300 cd, m²	300 cd, m²	300 cd, m²
Contrast Ratio	800:1	1000:1	1000:1	1000:1
Number of Colours	262K	16.7 million	16.7 million	16.7 million
Viewing Angle	160° (H) ~ 160° (V)	170° (H) ~ 160° (V)	170° (H) ~ 160° (V)	170° (H) ~ 160° (V)
Response Time	12 ms	5 ms	5 ms	5 ms
Display protection	Tempered acryl glass with anti-reflection coating	—	—	—
Audio Inputs	1x 3.5mm jack (Line) , 1x HDMI	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)
Speakers	yes	2 x 2 W	2 x 2 W	2 x 2 W
Vesa Mount	75 x 75 mm	75 x 75 mm	100 x 100 mm	75 x 75 mm
OSD (On Screen Display)	Yes, multi language	Yes, multi language	Yes, multi language	Yes, multi language
Accessories included	Stand, power adapter, HDMI cable and remote control	Power Adapter and HDMI cable	Power Adapter and HDMI cable	Power Adapter and HDMI cable
Regulation	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant
Power Consumption	Max. 12 W	Max. 21 W	Max. 21 W	Max. 21 W
Supply Voltage	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included
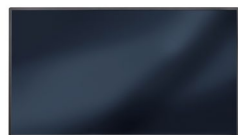
GD-ML-BP4330HD	**GD-ML-BP5540UHD**
Professional	Professional
109 cm (43") Diagonal AM-TFT LED Backlight	140 cm (55") Diagonal AM-TFT LED Backlight
1920 (H) x 1080 (V)	3840 (H) x 2160 (V)
0.248 mm (H) x 0.248 mm (V)	0.315 mm (H) x 0.315 mm (V)
16 : 9	16 : 9
PAL, NTSC	PAL, NTSC
2x HDMI, 1x VGA, 1x AV	1x Display Port, 3x HDMI
500 cd, m²	350 cd, m²
1000:1	4000:1
16.7 million	1073 G
178° (H) ~ 178° (V)	178° (H) ~ 178° (V)
5 ms	5 ms
—	—
1-ch, RCA (2.0 Vp-p, 1kΩ)	—
2 x 5 W	—
200 x 200 mm	400 x 400 mm
Yes, multi language	Yes, multi language
Stand, power cable, HDMI cable and remote control	Power Adapter and HDMI cable, remote control
CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant
Max. 95 W	Max. 130 W
100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz

THE MONITOR SERIES FROM GRUNDIG SECURITY: SCREENS WITH TRADITION!

Our latest monitor series impresses with its elegant design and ultra-thin screen edges.

At the same time, it meets the requirements of modern video systems. The devices are equipped with extra robust components to ensure reliable use 24 hours a day, 7 days a week, 365 days a year.

In addition, the panels have been specially selected for video surveillance applications and use technologies to prevent ghosting and offer high brightness and contrast values.

GD-CI-AP2605B GD-CI-AT8505B		GD-BR-AWA03 Wall Mount Bracket for Box Camera	

GD-CI-AC6614E	GD-BR-AJX04 Junction Box
	GD-BR-AJX14 Junction Box inclined
	GD-BR-AMC03 Corner Mount Bracket
	GD-BR-AMW14 Wall Mount Bracket

GD-CI-AP8617E	GD-BR-AJX17 Junction Box
	GD-BR-AMC03 Corner Mount Bracket

GD-CI-CP4637E	GD-BR-AJX12 Junction Box
	GD-BR-AMC01 Corner Mount Bracket
	GD-BR-AML03 Pole Mount Bracket
	GD-BR-AMP08 Pendant Mount Bracket
	GD-BR-AMW04 Wall Mount Bracket
	GD-BR-AWJ01 Wall Mount Bracket with Junction Box

GD-CI-CC4637V	GD-BR-AJX01 Junction Box
	GD-BR-AMF01 Flush Mount Adapter
	GD-BR-AMP08 Pendant Mount Bracket
	GD-BR-AMW04 Wall Mount Bracket
	GD-BR-AWJ01 Wall Mount Bracket with Junction Box

GD-CI-CC2616V GD-CI-EC4617V GD-CI-FC4617V GD-CI-AP4617V	GD-BR-AJX03 Junction Box
	GD-BR-AMP09 Pendant Mount Bracket
	GD-BR-AMW05 Wall Mount Bracket
	GD-BR-ASN01 Sunshield for Fixed Dome Cameras
	GD-BR-AWJ02 Wall Mount Bracket with Junction Box

GD-CI-CP4617W GD-CI-DP4617W	GD-BR-AJX10 Junction Box
	GD-BR-AMP16 Pendant Mount Bracket
	GD-BR-AMW22 Wall Mount Bracket

GD-CI-AP2627V	GD-BR-AMF06 Flush Mount Adapter
	GD-BR-AMP10 Pendant Mount Bracket
	GD-BR-AMW01 Wall Mount Bracket
	GD-BR-AWJ07 Wall Mount Bracket with Junction Box

GD-CI-AP6637V	GD-BR-AJX13 Junction Box
	GD-BR-AMF09 Flush Mount Adapter
	GD-BR-AMP10 Pendant Mount Bracket
	GD-BR-AMW01 Wall Mount Bracket
	GD-BR-AWJ07 Wall Mount Bracket with Junction Box

Camera		Accessories
GD-CI-CP4637V GD-CI-BP8637V		GD-BR-AMC01 Corner Mount Bracket
		GD-BR-AMF06 Flush Mount Adapter
		GD-BR-AML03 Pole Mount Bracket
		GD-BR-AMP10 Pendant Mount Bracket
		GD-BR-AMW01 Wall Mount Bracket
		GD-BR-AWJ07 Wall Mount Bracket with Junction Box
GD-CI-BT4537VH		GD-BR-AMF10 Flush Mount Adapter
		GD-BR-AMP10 Pendant Mount Bracket
		GD-BR-AMW01 Wall Mount Bracket
		GD-BR-ASN01 Sunshield for Fixed Dome Cameras
		GD-BR-AWJ07 Wall Mount Bracket with Junction Box
GD-CI-AT4634V		GD-BR-AMC03 Corner Mount Bracket
		GD-BR-AML01 Pole Mount Bracket
GD-CI-CT12617F		GD-BR-AJX08 Junction Box
		GD-BR-AMW19 Wall Mount Bracket
GD-CI-CC2616T GD-CI-DC2616T GD-CI-EC4617T GD-CI-FC4617T		GD-BR-AJX05 Junction Box
GD-CI-CC4637T GD-CI-AP4617T GD-CI-AP6637T GD-CI-BP8637T		GD-BR-AJX04 Junction Box
		GD-BR-AMC03 Corner Mount Bracket
		GD-BR-AML01 Pole Mount Bracket

Camera		Accessories
GD-CI-AP2627T GD-CI-AP4637T GD-CI-DT4637T GD-CI-ET4637T GD-CI-CT4537T GD-CI-CT8637T GD-CI-AT12637T		GD-BR-AMC01 Corner Mount Bracket
		GD-BR-AML03 Pole Mount Bracket
GD-CI-CT4537TH GD-CI-AT4634T GD-CI-ET4537TH GD-CI-BT8537TH		GD-BR-AMC03 Corner Mount Bracket
		GD-BR-AML01 Pole Mount Bracket
GD-CI-AC4637P		GD-BR-AMP12 Pendant Mount Bracket
		GD-BR-AMW18 Wall Mount Bracket
GD-CI-CP2647P		GD-BR-AJX02 Junction Box
		GD-BR-AMF02 Flush Mount Adapter
		GD-BR-AMP02 Pendant Mount Bracket (long)
		GD-BR-AMP03 Pendant Mount Bracket (medium long)
		GD-BR-AMP05 Pendant Mount Bracket (short)
		GD-BR-AMW11 Wall Mount Bracket

GD-CI-CP2747P GD-CI-AP4647P GD-CI-AP4747P GD-CI-AT30516Q	GD-BR-AMA01 Parapet Wall Mount for PTZ Domes	
	GD-BR-AMC04 Corner Mount Bracket Junction Box for PTZ Domes	
	GD-BR-AMP01 Pendant Mount Bracket (long) for PTZ Domes	
	GD-BR-AMP04 Pendant Mount Bracket (medium long) for PTZ Domes	
	GD-BR-AMP06 Pendant Mount Bracket (short) for PTZ Domes	
	GD-BR-AMP07 Pendant Mount Bracket extendable	
	GD-BR-AMS01 Swan Neck Mount for PTZ Domes	
	GD-BR-AMW10 Wall Mount Bracket for PTZ Domes	

GD-CI-CT4747P GD-CI-BT4747P GD-CI-AT8747P	GD-BR-AMA01S Parapet Wall Mount for PTZ Domes silver-grey	
	GD-BR-AMC04S Corner Mount Bracket Junction Box for PTZ Domes	
	GD-BR-AML06S Pole Mount Bracket with Junction Box for PTZ Domes	
	GD-BR-AMP01S Pendant Mount Bracket (long) for PTZ Domes	
	GD-BR-AMP04S Pendant Mount Bracket (medium long) for PTZ Domes	
	GD-BR-AMP06S Pendant Mount Bracket (short) for PTZ Domes	
	GD-BR-AMP07S Pendant Mount Bracket extendable silver-grey	
	GD-BR-AMW08S Wall Mount Bracket for PTZ Domes silver-grey	
	GD-BR-AMW10S Wall Mount Bracket for PTZ Domes silver-grey	
	GD-BR-AMW17S Pole Mount for PTZ Domes silver-grey	

GD-CI-AT20527Q	GD-BR-AMP04 Pendant Mount Bracket (medium long) for PTZ Domes	
	GD-BR-AMP06 Pendant Mount Bracket (short) for PTZ Domes	
	GD-BR-AMW08 Wall Mount Bracket for PTZ Domes	
	GD-BR-AMW09 Wall Mount Bracket Pole Mount Adapter and Junction	

GD-TI-AP1614V GD-TI-BP1603V GD-TI-AP4607V	GD-BR-AJX01 Junction Box	
	GD-BR-AMP15 Pendant Mount Bracket	
	GD-BR-AMW16 Wall Mount Bracket	
	GD-BR-AWJ06 Wall Mount Bracket with Junction Box	

GD-TI-BP1603T GD-TI-BP1606T GD-TI-BP1610T GD-TI-AP4503T GD-TI-AP4507T GD-TI-AP4510T GD-TI-AT2604T GD-TI-AT2607T GD-TI-AT2610T GD-TI-AT2615T GD-TI-AT2625T GD-TI-CT2510T GD-TI-AT3607T GD-TI-AT3625T	GD-BR-AMC03 Corner Mount Bracket	
	GD-BR-AML01 Pole Mount Bracket	

GD-CT-AC2105B	GD-BR-AWA03 Wall Mount Bracket for Box Camera	

GD-CT-AC2113E	GD-BR-AJX05 Junction Box	
	GD-BR-AMW14 Wall Mount Bracket	

GD-CT-AP2117E	GD-BR-AJX04 Junction Box	
	GD-BR-AMW14 Wall Mount Bracket	

GD-CT-CC2126V		GD-BR-AJX15 Junction Box inclined
		GD-BR-AJX16 Junction Box
		GD-BR-AMP17 Pendant Mount Bracket
		GD-BR-AMW23 Wall Mount Bracket

GD-CT-AP2837V GD-CT-AP5826V		GD-BR-AJX01 Junction Box
		GD-BR-AMF08 Flush Mount Adapter
		GD-BR-AMP14 Pendant Mount Bracket
		GD-BR-AMW15 Wall Mount Bracket
		GD-BR-AWJ05 Wall Mount Bracket with Junction Box

GD-CT-CP2837V		GD-BR-AJX15 Junction Box inclined
		GD-BR-AJX16 Junction Box
		GD-BR-AMC03 Corner Mount Bracket
		GD-BR-AML01 Pole Mount Bracket
		GD-BR-AMP17 Pendant Mount Bracket
		GD-BR-AMW23 Wall Mount Bracket

| GD-CT-BC2116T | | GD-BR-AJX05
Junction Box |

GD-CT-BC2126T		GD-BR-AJX04 Junction Box
		GD-BR-AJX05 Junction Box
		GD-BR-AMC03 Corner Mount Bracket
		GD-BR-AML01 Pole Mount Bracket

| GD-CT-AP2837T
GD-CT-BP5837T | | GD-BR-AJX04
Junction Box |
| | | GD-BR-AMC03
Corner Mount Bracket |
| | | GD-BR-AML01
Pole Mount Bracket |

GD-CT-BP2247P		GD-BR-AMA01 Parapet Wall Mount for PTZ Domes
		GD-BR-AMC04 Corner Mount Bracket Junction Box for PTZ Domes
		GD-BR-AMP01 Pendant Mount Bracket (long) for PTZ Domes
		GD-BR-AMP04 Pendant Mount Bracket (medium long) for PTZ Domes
		GD-BR-AMP06 Pendant Mount Bracket (short) for PTZ Domes
		GD-BR-AMP07 Pendant Mount Bracket extendable
		GD-BR-AMS01 Swan Neck Mount for PTZ Domes
		GD-BR-AMW10 Wall Mount Bracket for PTZ Domes
		GD-BR-AWJ03 Wall Mount Bracket with Junction Box for PTZ Domes
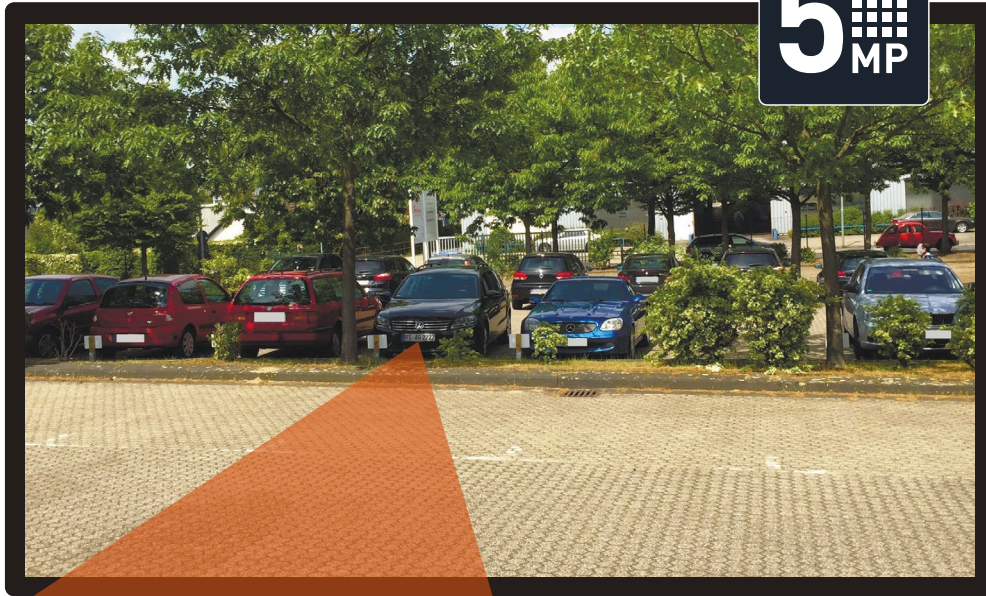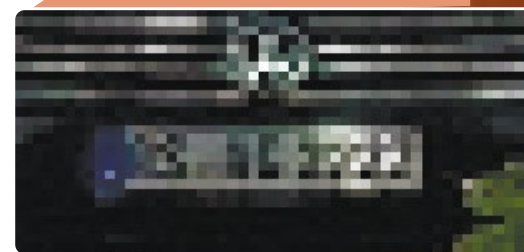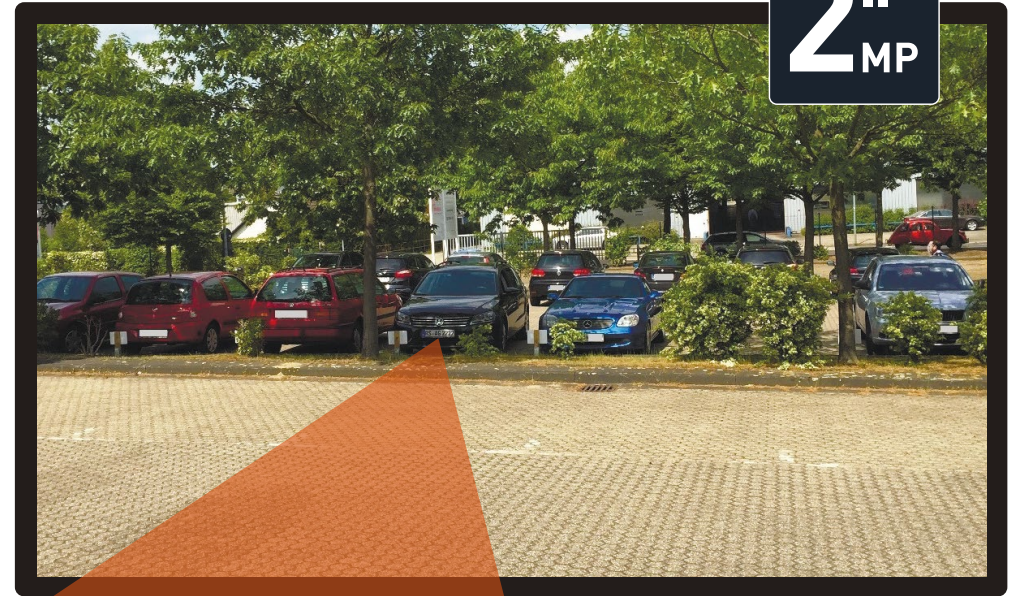
RESOLUTION 5 MEGAPIXELS VERSUS 2 MEGAPIXELS

Resolution

GRUNDIG offers a wide range of cameras, with resolutions from 1 up to 12 megapixels. This allows use of the most cost-effective camera in many and various applications. Depending on the area that needs to be monitored, and on the level of desired recognition, GRUNDIG always offers the most effective camera to manage the surveillance job.

SMART LINE: THE NDAA-COMPLIANT PRODUCT LINE FROM GRUNDIG SECURITY

The SMART product line from GRUNDIG Security comprises nine camera models with 5 or 8 megapixels resolution and various form factors. The new product line is complemented by four — partly fanless — 4-, 8- and 16-channel recorders. A comprehensive range of accessories rounds off the NDAA-compliant SMART product line.

What can you expect from the new SMART product line from GRUNDIG Security?

Leaving our tried and tested reliability aside, you will also find a whole lot of image analysis functions, supported by artificial intelligence (AI). And there's a lot of functionality available. You can use facial recognition, for instance, to recognise people, or the LPR function to identify vehicle licence plates. Or you can quite simply reduce the frequency of false alarms signalling a spurious break-in or perimeter breach, by classifying objects as 'vehicle', 'person' or 'other'.

Are you curious about what else the products in the SMART product line from GRUNDIG Security can do?

Then you should download the SMART product overview:

The SMART cameras from GRUNDIG Security can recognise faces in crowds of people, count heads and determine the length of queues at your supermarket till, therefore helping you to make the best possible use of your resources. They'll let you know when unauthorised people cross pre-defined lines or enter certain areas, and they'll trigger an alarm when objects are left at your doorstep.

You'd rather see these analysis functions in action?

Then take a look at the "SMART Line" playlist on our YouTube channel:

AI FUNCTIONALITY

Identify licence plates

Classify persons & vehicles

Identify faces

Enter area

Detect left/removed objects

Use heat map

Cross lines

Manage queues

Analyse crowds

Count people/objects

Detect unusual noises

	GD-KB-AP1420P	GD-KB-AP1120P	GD-KB-AT2430P
	Professional	Professional	Premium
LCD Panel size	6.5 cm (2.6") Diagonal AM-TFT LED Backlight	—	10.1" (25.6 cm) TFT LCD colour touch display, 1280 x 800
PTZ Control	4-axis joystick, PTZ-, focus- & iris-control, setting and calling Presets, Patterns & Patrols, Auto-Scan, Auto-Pan, Wiper, AUX	4-axis joystick, PTZ-, focus- & iris-control, setting and calling Presets, Patterns & Patrols, Auto-Scan, Auto-Pan, Wiper, AUX	4-axis joystick, PTZ-, focus- & iris-control, setting and calling Presets, Patterns & Patrols, Auto-Scan, Auto-Pan, Wiper, AUX
DVR Control	Play, Stop, Pause, FF, RW, Rec, PTZ, Menu, Search, Backup, Monitors	Play, Stop, Pause, FF, RW, Rec, Menu, Search, Backup, Monitors	Play, Stop, Pause, FF, RW, Rec, Menu, Search, Backup
Lens Control	Iris (Close, Open) , Focus (Near, Far, Auto) , Zoom (Tele, Wide)	Iris (Close, Open) , Focus (Near, Far, Auto) , Zoom (Tele, Wide)	Iris (Close, Open) , Focus (Near, Far, Auto) , Zoom (Tele, Wide)
Operating System	—	Microsoft Windows® and Linux®	Android 6.0
Users	Up to 16 users, 2 levels: Administrator and User	1 user, 1 level	Up to 32 users, 2 levels: Administrator and User
Video Compression	—	—	H.264, H.265
Audio Input/Output	—	—	1-ch audio input and 1-ch audio output
Serial Interface(s)	1x RS-232, 1x RS-422, 1x RS-485	USB 2.0, DirectX	2x USB 2.0 (RS232/485 with adapter)
Network Interface	—	—	1x 10, 100, 1000 Base T, TX (RJ-45)
Suitable for	NVR, DVR & PTZ-camera	C-WERK clients	NVR, DVR, PTZ-camera
Video Outputs	—	—	1x DVI, 1x HDMI
Operating Temperature	-10°C ~ 55°C	0°C ~ 45°C	-10°C ~ 55°C
Supply Voltage	12 VDC	5 VDC by USP port	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 4.5 W	Max. 2 W	Max. 15.5 W

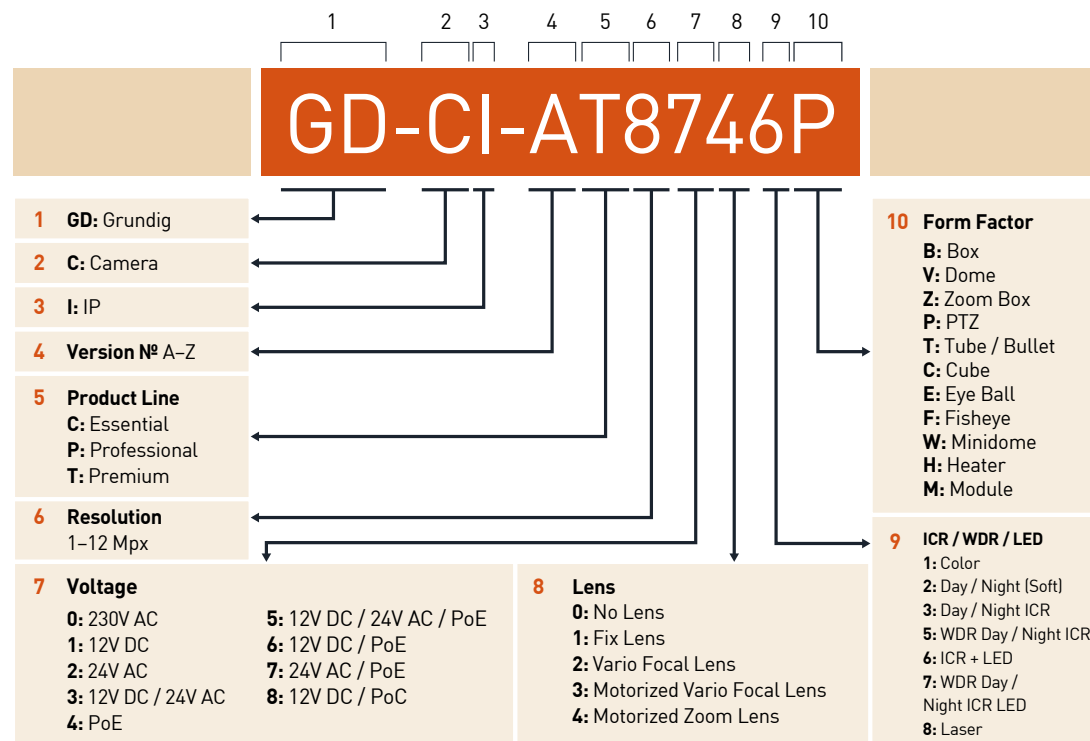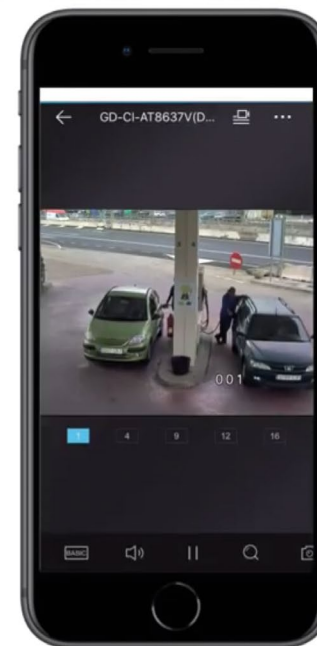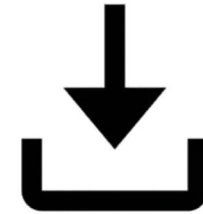|	GD-LD-AC2812DC-IR	GD-LD-AC0550DC-IR	GD-LF-BT3611D-IR	GD-LF-BT1150D-IR
	Essential	Essential	Premium	Premium
Lens Focal Length	5 ~ 50 mm	3.6 ~ 11 mm	11 ~ 50 mm	11 ~ 50 mm
Iris F-Number	F= 1.4 ~ 360	F= 1.5 ~ 360	F= 1.4 ~ 360	F= 1.4 ~ 360
Lens Drive Type	Auto Iris (DC)	Auto Iris (DC)	Auto Iris (DC)	Auto Iris (DC)
Lens Mount	CS mount	CS mount	CS mount	CS mount
Material	Aluminium alloy	Polycarbonate and Glass Fiber	Aluminium alloy	Aluminium alloy
Max. Image Format	1/2,7"	1/1.8"	1/1.8"	1/1.8"
Minimum Object Distance	0.5 m	0.2 m	1.5 m	1.5 m

GD-CI-AT8746P

1	**GD:** Grundig
2	**C:** Camera
3	**I:** IP
4	**Version № A–Z**
5	**Product Line** C: Essential P: Professional T: Premium
6	**Resolution** 1–12 Mpx

7	**Voltage**
0: 230V AC	**5:** 12V DC / 24V AC / PoE
1: 12V DC	**6:** 12V DC / PoE
2: 24V AC	**7:** 24V AC / PoE
3: 12V DC / 24V AC	**8:** 12V DC / PoC
4: PoE	

8	**Lens**
0: No Lens
1: Fix Lens
2: Vario Focal Lens
3: Motorized Vario Focal Lens
4: Motorized Zoom Lens

9	**ICR / WDR / LED**
1: Color
2: Day / Night (Soft)
3: Day / Night ICR
5: WDR Day / Night ICR
6: ICR + LED
7: WDR Day / Night ICR LED
8: Laser

10	**Form Factor**
B: Box
V: Dome
Z: Zoom Box
P: PTZ
T: Tube / Bullet
C: Cube
E: Eye Ball
F: Fisheye
W: Minidome
H: Heater
M: Module

THE SCMS APP BY GRUNDIG SECURITY: INSTALLED & CONFIGURED IN NO TIME!

Supreme Central Monitoring Service is a surveillance application for mobile phone and tablet supporting the full line of surveillance products, including NVRs, DVRs, as well as network cameras and speed domes that support cloud P2P function. The Mobile Software App has been designed to help small businesses effectively operate and manage security devices from a smartphone or tablet. The power to view live images, play back footage, and receive notifications remotely keeps owners and operators in touch with their business, even when away.

- Real-time video preview of up to 16 channels

- Swipe for PTZ control and camera movement, pinch to zoom in/out in preview mode

- Preset activation and configuration as well as brightness calibration supported

- Push alarm notification

- Snapshot function

- Manage up to 256 device sets; add/delete/modify device profiles

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