

INTELLIGENT VIDEO SURVEILLANCE

Product Guide

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!



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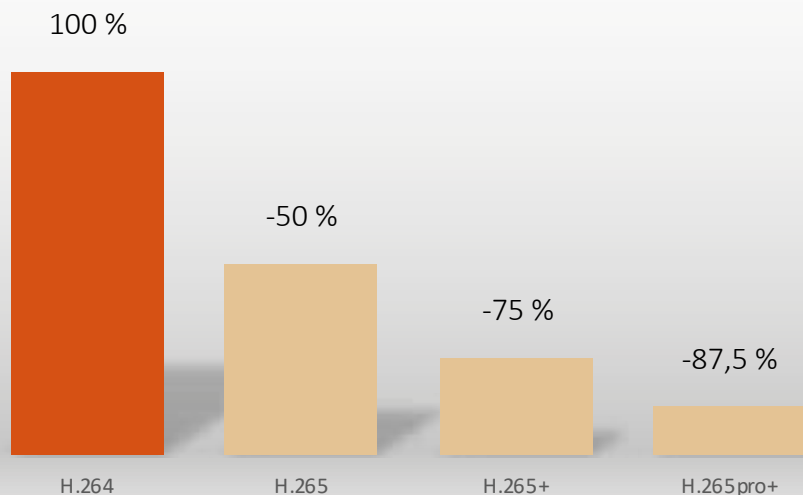


5 Years Extended Guarantee

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



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“.



GD-CI-AP2605B



GD-CI-AT4505B



GD-CI-AT8505B



GD-CI-AP4617C



GD-CI-AC2615M

	Professional	Premium	Premium	Professional	Essential
Video Resolution	1920 x 1080	2560 x 1440	3840 x 2160	2688 x 1520	1920 x 1080
Sensitivity Colour	0.01 Lux @ F1.2 (AGC ON)	0.002 Lux @ F1.2 (AGC ON)	0.007 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	—
Lens Focal Length	—	—	—	2.8 mm	4.3 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)
Wide Dynamic Range	120 dB	140 dB	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog
Max. IR Distance	—	—	—	Up to 10 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.265, MJPEG
SD Memory	up to 128G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 128G, ANR Function	up to 128G
Video Outputs	1x CVBS (1 Vcc) BNC	1 CVBS Test Monitor output	1 CVBS Test Monitor output	—	1x CVBS (1 Vcc) BNC
Alarm Input/Output	yes	yes	yes	—	—
Audio Input/Output	yes	yes	yes	—	—
Intelligent Video Analytics	MD, PID, LCD, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, SD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, SD, VTD	MD, PID, LCD, FD, VTD	MD, LCD
Surge Protection	—	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)	-10 °C ~ 50 °C (-14 °F ~ 122 °F)	-20 °C ~ 60 °C (-4 °F ~ 140 °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, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 6 W	Max. 8 W	Max. 10 W	Max. 7 W	Max. 2.5 W



**GD-CI-AC2616E****GD-CI-AC5617E****GD-CI-CP4637E****GD-CI-AP8617E**

	Essential	Essential	Professional	Professional
Video Resolution	1920 x 1080	2560 x 1920	2688 x 1520	3840 x 2160
Sensitivity Colour	0.01 Lux	0.01 Lux @ F1.2 (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	2.8 ~ 12 mm motorized, autofocus	2.8 mm
Col/B&W	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	Digital WDR	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR, HLC	BLC, 3D DNR	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC
Max. IR Distance	Up to 30 m	Up to 30 m	Up to 40 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
SD Memory	—	—	up to 256G, ANR Function	up to 256G, ANR Function
Video Outputs	—	—	1x CVBS (1 Vcc) BNC	—
Alarm Input/Output	—	—	yes	—
Audio Input/Output	—	—	yes	Built-in microphone
Intelligent Video Analytics	MD, 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)	-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 (802.3af)
Power Consumption	Max. 5 W	Max. 7 W	Max. 12,5 W	Max. 7.5 W



**GD-CI-CC2616V****GD-CI-DC2616V****GD-CI-CC4617V****GD-CI-DC4617V****GD-CI-BC2626V****GD-CI-BC4637V****GD-CI-AP4617V****GD-CI-CP4617W**

	Essential	Essential	Essential	Essential	Essential	Essential	Professional	Professional
Video Resolution	1920 x 1080	1920 x 1080	2560 x 1440	2560 x 1440	1920 x 1080	2560 x 1440	2688 x 1520	2688 x 1520
Sensitivity Colour	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)
Lens Focal Length	2.8 mm	4 mm	2.8 mm	4 mm	2.8 ~ 12 mm	2.8 ~ 12 mm motorized, autofocus	2.8 mm	2.8 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)	IR-cut filter removable (ICR)
Wide Dynamic Range	Digital WDR	Digital WDR	120 dB	120 dB	Digital WDR	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	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	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	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	—	—	—	—	up to 128G, ANR Function	up to 128G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function
Video Outputs	—	—	—	—	1x CVBS (1 Vcc) BNC	—	—	—
Alarm Input/Output	—	—	—	—	—	—	yes	yes
Audio Input/Output	—	—	—	—	—	—	yes	yes
Intelligent Video Analytics	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, PID, LCD, FD, VTD	MD, PID, LCD, FD, PD & VD, VTD
Surge Protection	—	—	—	—	—	—	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)	-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 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 6.5 W	Max. 6.5 W	Max. 5 W	Max. 5 W	Max. 6 W	Max. 12 W	Max. 6.5 W	Max. 6.5 W



**GD-CI-DP4617W****GD-CI-AP2627V****GD-CI-AP4637V****GD-CI-AP6637V****GD-CI-BP8637V****GD-CI-AT4537VH****GD-CI-AP5617F****GD-CI-BT12617F**

Professional

Professional

Professional

Professional

Professional

Premium

Professional

Premium

Video Resolution	2688 × 1520	1920 x 1080	2688 × 1520	3200 x 1800	3840 × 2160	2688 × 1520	2560 × 1920	4000 × 3000
Sensitivity Colour	0.005 Lux @ F1.6 (AGC ON)	0.005 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (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)	0.01 Lux @ F1.2 (AGC ON)	0.05 Lux @ F2.2 (AGC ON)
Lens Focal Length	4 mm	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	1.05 mm	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)	IR-cut filter removable (ICR)
Wide Dynamic Range	120 dB	120 dB	120 dB	120 dB	120 dB	140 dB	120 dB	Digital WDR
Image Enhancement	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog	BLC, 3D DNR, Defog, HLC
Max. IR Distance	Up to 30 m	Up to 30 m	Up to 30 m	Up to 40 m	Up to 40 m	Up to 40 m	Up to 8 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	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	up to 256G, ANR Function	up to 128G, ANR Function	up to 128G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 256G, ANR Function	up to 128G, ANR Function	up to 256G, ANR Function
Video Outputs	—	1 CVBS Test Monitor output	1 CVBS Test Monitor output	—	1 CVBS Test Monitor output	—	—	—
Alarm Input/Output	yes	yes	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	yes	yes	yes	yes	yes	yes
Intelligent Video Analytics	MD, PID, LCD, FD, PD & VD, VTD	MD, PID, LCD, SOD, FD, VTD	MD, PID, LCD, FD, 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, LC, VTD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, SD, CC, HM
Surge Protection	—	TVS 2000V	TVS 2000V	—	TVS 2000V	TVS 2000V	—	—
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)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-30 °C ~ 60 °C (-22 °F ~ 140 °F)	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	-10 °C ~ 50 °C (-14 °F ~ 122 °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, 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. 6.5 W	Max. 11 W	Max. 12 W	Max. 12,5 W	Max. 12,5 W	Max. 12,9 W	Max. 6.7 W	Max. 15 W





GD-CI-CC2616T



GD-CI-DC2616T



GD-CI-CC4617T



GD-CI-DC4617T



GD-CI-BC4637T



GD-CI-AP4617T



GD-CI-AP2627T



GD-CI-AP4637T

	Essential	Essential	Essential	Essential	Essential	Professional	Professional	Professional
Video Resolution	1920 x 1080	1920 x 1080	2560 x 1440	2560 x 1440	2560 x 1440	2688 x 1520	1920 x 1080	2560 x 1440
Sensitivity Colour	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F2.0 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.005 Lux @ F1.6 (AGC ON)	0.01 Lux @ F1.2 (AGC ON)	0.005 Lux @ F1.2 (AGC ON)	0.018 Lux @ F1.6 (AGC ON)
Lens Focal Length	2.8 mm	4 mm	2.8 mm	4 mm	2.8 ~ 12 mm motorized, autofocus	4 mm	2.8 ~ 12 mm motorized, autofocus	2.8 ~ 12 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)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	Digital WDR	Digital WDR	120 dB	120 dB	120 dB	120 dB	120 dB	120 dB
Image Enhancement	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR
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	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	H.264, H.264+, H.265, H.265+, MJPEG
SD Memory	—	—	—	—	up to 256G, ANR Function	up to 128G, ANR Function	up to 128G, ANR Function	up to 128G, ANR Function
Video Outputs	—	—	—	—	—	—	1 CVBS Test Monitor output	1 CVBS Test Monitor output
Alarm Input/Output	—	—	—	—	—	—	yes	yes
Audio Input/Output	—	—	—	—	—	—	yes	yes
Intelligent Video Analytics	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, VTD	MD, PID, LCD, FD, VTD	MD, PID, LCD, SOD, FD, VTD	MD, PID, LC, VTD
Surge Protection	—	—	—	—	—	TVS 2000V	TVS 2000V	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)	-30 °C ~ 60 °C (-22 °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 802.3af)	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 802.3at)	12 VDC, PoE+ (IEEE 802.3at)
Power Consumption	Max. 6.5 W	Max. 6.5 W	Max. 5 W	Max. 5 W	Max. 12,9 W	Max. 9.5 W	Max. 17 W	Max. 18 W





GD-CI-AP6637T



GD-CI-BP8637T



GD-CI-CT2647T



GD-CI-DT2647T



GD-CI-AT4537TH



GD-CI-BT4537TH



GD-CI-CT4537T



GD-CI-AT12637T

	Professional	Professional	Premium	Premium	Premium	Premium	Premium	Premium
Video Resolution	3200 x 1800	3840 x 2160	1920 x 1080	1920 x 1080	2688 x 1520	2688 x 1520	2688 x 1520	4000 x 3000
Sensitivity Colour	0.005 Lux @ F1.6 (AGC ON)	0.003 Lux @ F1.4 (AGC ON)	0.002 Lux @ F1.2 (AGC ON)	0.002 Lux @ F1.2 (AGC ON)	0.0014 Lux @ F1.2 (AGC ON)	0.0014 Lux @ F1.2 (AGC ON)	0.009 Lux @ F1.6 (AGC ON)	0.009 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	8 ~ 32 mm motorized, autofocus	2.8 ~ 12 mm motorized, autofocus	8 ~ 32 mm motorized, autofocus	4.7 ~ 118 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)	IR-cut filter removable (ICR)	IR-cut filter removable (ICR)
Wide Dynamic Range	120 dB	120 dB	140 dB	140 dB	140 dB	140 dB	140 dB	Digital WDR
Image Enhancement	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, HLC	BLC, 3D DNR, Defog, EIS, HLC	BLC, 3D DNR, Defog, EIS, HLC, Distortion Correction
Max. IR Distance	Up to 60 m	Up to 60 m	Up to 50 m	Up to 100 m	Up to 60 m	Up to 80 m	Up to 200m	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	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	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	—	1 CVBS Test Monitor output	—	1 CVBS Test Monitor output
Alarm Input/Output	yes	yes	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	—	—	yes	yes	yes	—
Intelligent Video Analytics	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, VTD, LPR	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, LPR	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, PD & VD, FD, VTD, AD	MD, PID, LCD, CD, A-IN, A-OUT, SOD, PD & VD, FD, FR, VTD, AD
Surge Protection	—	TVS 2000V	—	—	TVS 2000V	TVS 2000V	TVS 2000V	—
Operating Temperature	-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)	-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, PoE+ (IEEE 802.3at)	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)
Power Consumption	Max. 15 W	Max. 15 W	Max. 14.5 W	Max. 14.5 W	Max. 15 W	Max. 15 W	Max. 12 W	Max. 18 W





GD-CI-AT30516Q



GD-CI-AT20527Q

	Premium	Premium
Video Resolution	8160 x 3616	2560 x 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	On, Off, Auto, IR-cut filter removable (ICR)	On, Off, Auto, 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



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-BP2647P****GD-CI-CP2747P****GD-CI-AP4647P****GD-CI-AP4747P****GD-CI-CT4747P****GD-CI-AT8747P**

	Essential	Professional	Professional	Professional	Professional	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
Video Resolution	2560 x 1440	1920 x 1080	1920 x 1080	2560 x 1440	2560 x 1440	2560 x 1440	3840 x 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)	0.005 Lux
Lens Focal Length	2.8 ~ 12 mm motorized, auto-focus	4.8 ~ 120 mm motorized, autofocus	4.8 ~ 153 mm motorized, autofocus	4.8 ~ 120 mm motorized, autofocus	5.9 ~ 188.8 mm motorized, auto-focus	6.0 ~ 252 mm, 42x Optical Zoom	6.0 ~ 252 mm, 42x Optical Zoom
Optical Zoom Ratio	4x	25x	32x	25x	32x	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)
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
Image Enhancement	BLC, 3D DNR, Defog, HLC	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	BLC, 3D DNR, Defog, EIS, HLC, AGC, Regional Exposure, Regional Focus, Rapid 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 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
Video Outputs	—	—	—	—	—	1x CVBS (1 Vcc) BNC	1x CVBS (1 Vcc) BNC
Alarm Input/Output	—	yes	yes	yes	yes	yes	yes
Audio Input/Output	yes	yes	yes	yes	yes	yes	yes
Intelligent Video Analytics	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, SD	MD, PID, LCD, A-IN, A-OUT, SOD, FD, VTD, SD	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, FD, PD & VD, VTD	MD, PID, LCD, A-IN, A-OUT, FR, VTD, PD & VD, SD, AD	MD, PID, LCD, A-IN, A-OUT, SOD, FR, VTD, PD & VD, LPR
Surge Protection	TVS 4000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V	TVS 6000V
Operating Temperature	-20 °C ~ 60 °C (-4 °F ~ 140 °F)	-30 °C ~ +65 °C (-22 °F ~ 149 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)	-30 °C ~ +65 °C (-22 °F ~ 149 °F)	-30 °C ~ +65 °C (-22 °F ~ 149 °F)	-40 °C ~ 70 °C (-40 °F ~ 158 °F)	-40 °C ~ 70 °C (-40 °F ~ 158 °F)
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)
Power Consumption	Max. 12 W	Max. 18 W	Max. 42 W	Max. 18 W	Max. 42 W	Max. 60W	Max. 60W





GD-TI-AP1614V



GD-TI-BP1603V



GD-TI-BP1603T



GD-TI-BP1606T



GD-TI-BP1610T



GD-TI-AT2604T

	Professional	Professional	Professional	Professional	Professional	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
Resolution (Thermal)	160 x 120	160 x 120	160 x 120	160 x 120	160 x 120	384 x 288
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)	< 35 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)	60° x 44.1° (HxV)
Detector Pitch	17 µm	17 µm	17 µm	17 µm	17 µm	12 µm
Optical: 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	—
Video Resolution	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 1520	2688 x 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)	—
Lens Focal Length	2.1 mm	4 mm	4 mm	8 mm	8 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
Accuracy	± 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)
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)
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)
Power Consumption	Max. 6 W	Max. 6 W	Max. 6.5 W	Max. 6.5 W	Max. 6.5 W	Max. 5.5 W
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





GD-TI-AT2607T

GD-TI-AT2610T

GD-TI-AT2615T

GD-TI-AT2625T

GD-TI-AT3607T

GD-TI-AT3625T

GD-TI-CT2510T

	Premium	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)	384 x 288	384 x 288	384 x 288	384 x 288	640 x 512	640 x 512	384 x 288
NETD	< 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)	< 35 mk (@25° C, F=1.0)
Viewing Angle (IR)	42° x 32° (HxV)	26° x 20° (HxV)	17° x 13° (HxV)	10.7° x 8° (HxV)	88,5° x 73,2° (HxV)	24.5° x 18.5° (HxV)	37.5° x 28.5° (HxV)
Detector Pitch	12 µm	12 µm	12 µm	12 µm	17 µm	17 µm	17 µm
Optical: Image Sensor	—	—	—	—	—	—	1/2.7" progressive Scan CMOS
Video Resolution	—	—	—	—	—	—	2688 x 1520
Sensitivity Colour	—	—	—	—	—	—	0.0089Lux @ F1.6 (AGC ON)
Lens Focal Length	—	—	—	—	—	—	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)
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, PoE (802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, PoE (IEEE 802.3af)	12 VDC, 24 VAC, PoE (IEEE 802.3af)
Power Consumption	Max. 5 W	Max. 5.5 W	Max. 5.5 W	Max. 5.5 W	Max. 5 W	Max. 5 W	Max. 9.5 W
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





GD-RN-AC2004P

GD-RN-AC2416N

GD-RN-AC2416P

GD-RN-AP8616P

GD-RN-AP8632N

GD-RN-AP8632P

	Essential	Essential	Essential	Professional	Professional	Professional
IP Inputs	4 channels	16 channels	16 channels	16 channels	32 channels	32 channels
Recording Bandwidth	max. 40 Mbps	160Mbps	160Mbps	160Mbps	256Mbps	256Mbps
Outgoing Bandwidth	max. 80 Mbps	max. 160 Mbps	max. 160 Mbps	256Mbps	256Mbps	256Mbps
Recording Resolution	Max. 8 MP	Max. 8 MP	Max. 8 MP	Max. 12 MP	Max. 12 MP	Max. 12 MP
Video Compression	H.264, H.264+, H.265	H.264, H.264+, H.265, H.265+ ,MPEG4	H.264, H.264+, H.265, H.265+ ,MPEG4	H.264, H.264+, H.265, H.265+ ,MPEG4	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, 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	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	USB HDD, USB Memory, USB DVD-R, Network
HDMI Output	4K (3840x2160)	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	4 x SATA III, 1 x eSATA
Max. Storage Capacity	Up to 8TB capacity for each HDD	Up to 8TB capacity for each HDD	Up to 8TB 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
Disk Array type	—	—	—	—	—	—
Audio Inputs	—	—	—	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)
Alarm 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	16 contact input N/ O or N/ C
Alarm Outputs	—	1	1	4	4	4
Power over Ethernet	4 independent 10, 100 Mbps PoE Ethernet interfaces	—	16 independent 10, 100 Mbps PoE Ethernet interfaces	16 independent 10, 100 Mbps PoE Ethernet interfaces	—	16 independent 10, 100 Mbps PoE Ethernet interfaces
Chassis	—	385 mm	385 mm	19-inch rack-mounted, 1.5U	19-inch rack-mounted, 1.5U	19-inch rack-mounted, 1.5U
Supply Voltage	48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	12 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
Power Consumption	≤ 64 W with PoE 10 W without PoE	≤ 40 W without harddisk	≤ 280 W ≤ 15 W without hard disk , PoE	≤ 300 W ≤ 20 W without hard disk , PoE	≤ 25W without hard disks	≤ 300 W ≤ 20 W without hard disk , PoE

**GD-RN-CT8832N****GD-RN-AT8864N****GD-RN-CT8864N****GD-RN-AT819128N**

	Premium	Premium	Premium	Premium
IP Inputs	32 channels	64 channels	64 channels	128 channels
Recording Bandwidth	320Mbps or 200Mbps (when RAID is enabled)	320Mbps or 200Mbps (when RAID is enabled)	320Mbps or 200Mbps (when RAID is enabled)	576Mbps
Outgoing Bandwidth	256Mbps or 200Mbps (when RAID is enabled)	256Mbps or 200Mbps (when RAID is enabled)	256Mbps or 200Mbps (when RAID is enabled)	512 Mbps
Recording Resolution	Max. 12 MP	Max. 12 MP	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	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	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
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
HDMI Output	HDMI1: 4K (3840 × 2160) HDMI2: 1920 × 1080p	HDMI1: 4K (3840 × 2160) HDMI2: 1920 × 1080p	HDMI1: 4K (3840 × 2160) HDMI2: 1920 × 1080p	HDMI1: 4K (3840 × 2160) HDMI2: 1920 × 1080p
Harddisk bay	8 x SATA III	8 x SATA III	8 x SATA III	16 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
Disk Array type	HDD hot swap with RAID0, 1, 5, 6, 10 storage (4 Arrays)	HDD hot swap with RAID0, 1, 5, 6, 10 storage (4 Arrays)	HDD hot swap with RAID0, 1, 5, 6, 10 storage (4 Arrays)	HDD hot swap with RAID0, 1, 5, 6, 10 storage (8 Arrays)
Audio Inputs	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)	1-ch, RCA (2.0 Vp-p, 1kΩ)
Alarm Inputs	16 contact input N/ O or N/ C	16 contact input N/ O or N/ C	16 contact input N/ O or N/ C	16 contact input N/ O or N/ C
Alarm Outputs	4	4	4	8
Power over Ethernet	—	—	—	—
Chassis	19-inch rack-mounted, 2U	19-inch rack-mounted, 2U	19-inch rack-mounted, 2U	19-inch rack-mounted, 3U
Supply Voltage	2 x 100 ~ 240 VAC, 50Hz / 60Hz redundant power supply	100 ~ 240 VAC, 50Hz / 60Hz	2 x 100 ~ 240 VAC, 50Hz / 60Hz redundant power supply	2 x 100 ~ 240 VAC, 50Hz / 60Hz redundant power supply
Power Consumption	Max. 550 W, 30W without harddisk	≤ 200 W ≤ 30 W without hard disk , PoE	Max. 550 W, 30W without harddisk	≤ 500 W ≤ 140 W without hard disk , PoE

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.



GD-RX-AP1416R

GD-RX-AP2424R

GD-RX-AP2432R

GD-RX-AP3448R

GD-RX-AP3464R

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 10 64-bit	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit	Microsoft® Windows 10 64-bit
CPU	Intel® Core™ i5-10400, 6 Cores, 6 Threads, 12 MB Cache, 2.90 GHz Base Frequency, 4.30 GHz Turbo Frequency	Intel® Xeon® E-2246G, 6 Cores, 12 Threads, 12 MB Cache, 3.60 GHz Base Frequency, 4.80 GHz Turbo Frequency	Intel® Xeon® E-2246G, 6 Cores, 12 Threads, 12 MB Cache, 3.60 GHz Base Frequency, 4.80 GHz Turbo Frequency	Intel® Xeon® E-2278G, 8 Cores, 16 Threads, 16 MB Cache, 3.40 GHz Base Frequency, 5.0 GHz Turbo Frequency	Intel® Xeon® E-2278G, 8 Cores, 16 Threads, 16 MB Cache, 3.40 GHz Base Frequency, 5.0 GHz Turbo Frequency	Intel® Xeon® E-2246G, 6 Cores, 12 Threads, 12 MB Cache, 3.60 GHz Base Frequency, 4.80 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	3x SATA	3x SATA	3x SATA	3x SATA	3x SATA	3x SATA
Supply Voltage	220 ~ 240 VAC, 50Hz	220 ~ 240 VAC, 50Hz	220 ~ 240 VAC, 50Hz	220 ~ 240 VAC, 50Hz	220 ~ 240 VAC, 50Hz	220 ~ 240 VAC, 50Hz
Power Consumption	Max. 400 W	Max. 400 W	Max. 400 W	Max. 400 W	Max. 400 W	Max. 400 W



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.

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

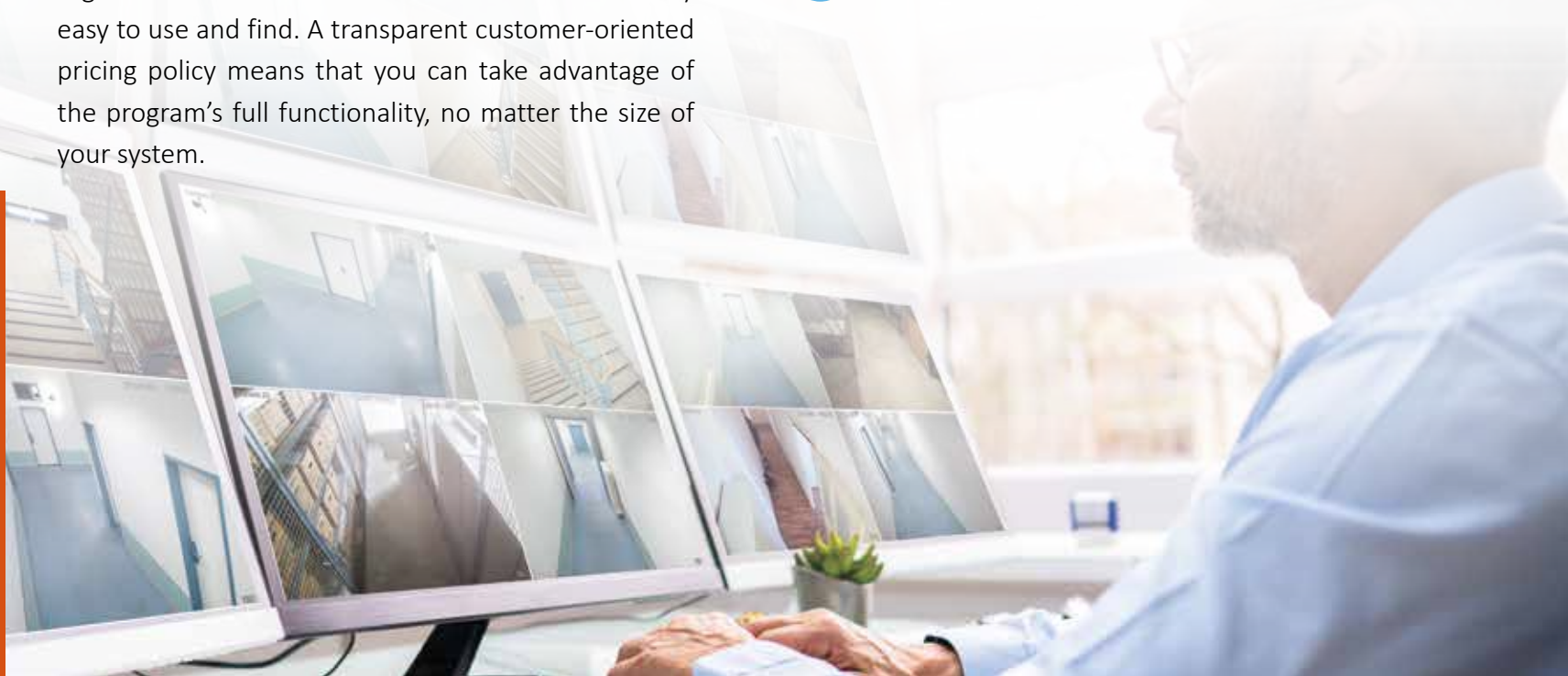
Open Platform VMS by C-WERK

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

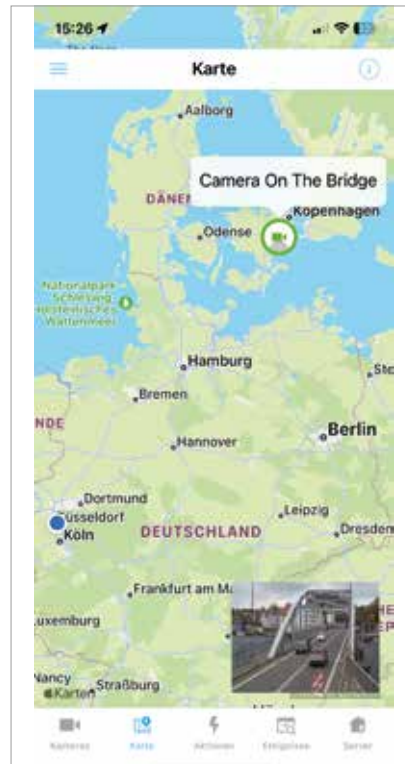
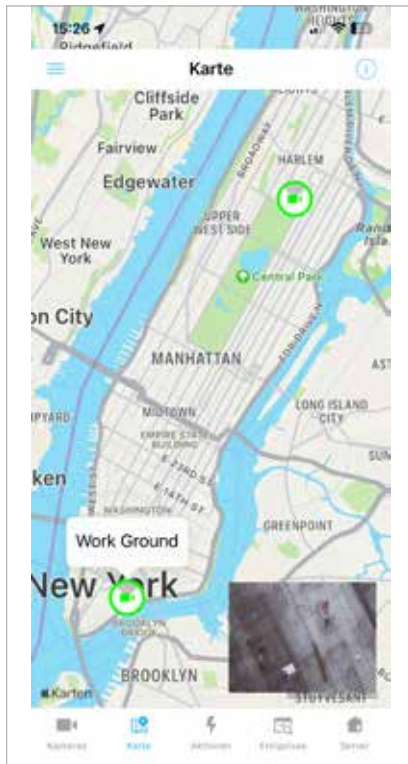
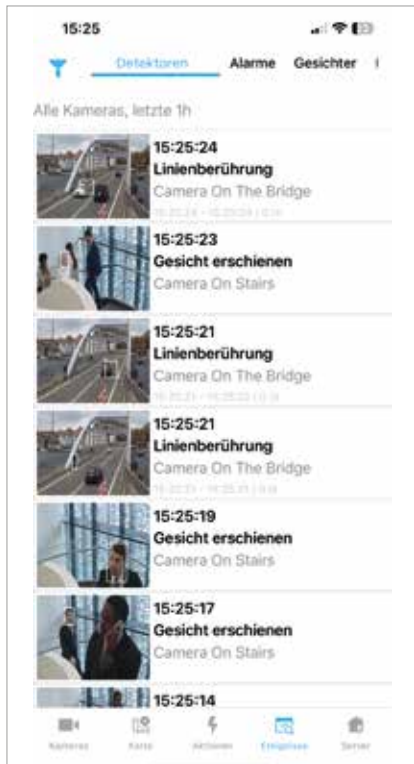
C·WERK®





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, controlling 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



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)



GD-HW-APSV08R

GD-HW-APSV012R

GD-HW-APSV024R

GD-HW-APSV04T

GD-HW-APSV05T

GD-HW-APSV06T

	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™ i5-10400, 6 Cores, 12 Threads, 12 MB Cache, 2.90 GHz Base Frequency, 4.30 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	—	—	—	MSI GT710 1GD3H, Memory 1 GB, DDR3, max. resolution 4096 x 2160, up to 2 monitors supported	MSI GT710 1GD3H, Memory 1 GB, DDR3, max. resolution 4096 x 2160, up to 2 monitors supported	MSI GT710 1GD3H, Memory 1 GB, DDR3, max. resolution 4096 x 2160, up to 2 monitors supported
Memory	16 GB	16 GB	16 GB	8 GB	16 GB	16 GB
Operating System	Windows Server 2019 Essential + 25 CALs	Windows Server 2019 Essential + 25 CALs	Windows Server 2019 Essential + 25 CALs	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	4x RJ45 Gbit LAN	1x RJ45 Gbit LAN	2x RJ45 Gbit LAN	2x RJ45 Gbit LAN
Operating Temperature	5 °C ~ +40 °C	5 °C ~ +40 °C	5 °C ~ +40 °C	5 °C ~ +40 °C	5 °C ~ +40 °C	5 °C ~ +40 °C
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	2x 800W	2x 650 W	450 W	450 W	450 W

Hardware | PC Accessories | Hard Disks



GD-HW-HDD-2TB

GD-HW-HDD-4TB

GD-HW-HDD-8TB

GD-HW-HDD-6TB

GD-HW-HDD-10TB

Professional	Professional	Professional	Professional	Professional
Server HDD 2TB Western Digital Purple	Server HDD 4TB Western Digital Purple	Server HDD 8TB Western Digital Purple	Server HDD 6TB Western Digital Purple	Server HDD 10TB Western Digital Purple

The SCMS app by GRUNDIG SECURITY: installed & configured in no time!

Supreme **C**entral **M**onitoring **S**ervice 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



**GD-CT-AC2105B****GD-CT-AC2113E****GD-CT-AP2117E****GD-CT-CC2126V****GD-CT-AP2817V****GD-CT-AP2837V****GD-CT-CP2837V**

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	2 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)	1920 (H) x 1080 (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)	0.005 Lux @ F1.2	0.003 Lux @ F1.2 (AGC ON)	0.003 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	2.8 mm	2.7 ~ 13.5 mm motorized, autofocus	2.7 ~ 13.5 mm motorized, autofocus
Col/B&W	Auto (Electronic) , Colour , 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)	Auto (Electronic) , Colour , B&W
Wide Dynamic Range	120 dB	Digital WDR	130 dB	Digital WDR	120 dB	130 dB	130 dB
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, Anti-Flicker, Mirror, AGC, WDR, Brightness, Sharpness, Smart-IR	BLC, 3D DNR, HLC
Max. IR Distance	—	Up to 20 m	Up to 20 m	Up to 40 m	Up to 20 m	Up to 60 m	Up to 60 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. 3.2 W	Max. 7 W	Max. 7 W



**GD-CT-AP5826V**

Professional

**GD-CT-BC2116T**

Essential

**GD-CT-AC2126T**

Essential

**GD-CT-AP2837T**

Professional

**GD-CT-BP5837T**

Professional

**GD-CT-BP2247P**

Professional

	Professional	Essential	Essential	Professional	Professional	Professional
Image Sensor	5 Megapixel progressive scan CMOS	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	2560 (H) × 1944 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	2560 (H) × 1944 (V)	1920 (H) × 1080 (V)
Sensitivity Colour	0.008 Lux @ F1.2 (AGC ON)	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	0 Lux LED IR on
Lens Focal Length	2.8 ~ 12 mm motorized	3.6 mm	2.8 ~ 12 mm	2.7 ~ 13.5 mm motorized, autofocus	2.7 ~ 13.5 mm motorized	4.8 ~ 120 mm motorized, autofocus
Col/B&W	Auto, 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)	Auto, Color, B&W, IR-cut filter removable (ICR)
Wide Dynamic Range	Digital WDR	Digital WDR	Digital WDR	130 dB	Digital WDR	120 dB
Image Enhancement	BLC, 2D DNR, Anti-Flicker, Mirror, AGC	BLC, 2D DNR, Anti-Flicker, Mirror, AGC	BLC, 2D DNR, Anti-Flicker, Mirror, AGC	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 30 m	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)	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	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 ~ 60 °C (-40 °F ~ 140 °F)	-40 °C ~ 65 °C (-40 °F ~ 149 °F)
Supply Voltage	12 VDC ±15%, PoC.af	12 VDC ±10%	12 VDC ±10%	12 VDC ±15%, PoC.at	12 VDC ±15%, PoC.at	24 VAC, 50, 60Hz
Power Consumption	Max. 8 W	Max. 4 W	Max. 4 W	Max. 8.2 W	Max. 9.5 W	Max. 30 W





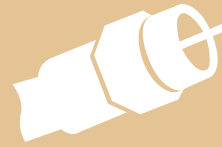
	GD-RT-BC3004N	GD-RT-BC3008N	GD-RT-BC3016N	GD-RT-AP5004P	GD-RT-AP8008P	GD-RT-AP8016P
	Essential	Essential	Essential	Professional	Professional	Professional
Video Inputs	4-ch, BNC	8-ch, BNC	16-ch, BNC	4-ch, BNC	8-ch, BNC, supporting PoC	16-ch, supporting PoC
HD-TVI Input	4MP, 3 MP, 1080p30, 1080p25	3 MP, 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	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.265+ , MJPEG	H.264, H.264+, H.265, H.265pro, H.265pro+	H.264, H.264+, H.265, H.265+ , MJPEG
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, USB DVD-R, 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	16-ch
Alarm Inputs	—	—	—	4 contact input N/ O or N/ C	8 contact input N/ O or N/ C	4 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	100 ~ 240 VAC, 50Hz / 60Hz
Power Consumption	≤ 18 W without harddisk	≤ 18 W without harddisk	≤ 24W without hard disks	≤ 40 W without harddisk	≤ 60 W without hard disk, PoC	≤ 140 W without hard disk , PoC



GD-RT-AP8016N

GD-RT-AT5016N

	Professional	Premium
Video Inputs	16-ch, BNC	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	5MP, 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+, MJPEG	H.264, H.264+, H.265, H.265+
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, 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	—	—
Alarm Inputs	16 contact input N/ O or N/ C	16 contact input N/ O or N/ C
Alarm Outputs	1	4
Supply Voltage	12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included	100 ~ 240 VAC, 50Hz / 60Hz
Power Consumption	≤ 19 W without hard disks	≤ 65W without hard disks



PoC

POWER OVER COAXIAL (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 or 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.



GD-ML-AP1031SD



GD-ML-CC2230HD



GD-ML-CC2430HD



GD-ML-BP3230HD



GD-ML-BP4330HD

	Professional	Essential	Essential	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	61 cm (23.6") Diagonal AM-TFT LED Backlight	61 cm (23.6") Diagonal AM-TFT LED Backlight	81.3 cm (32") 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)	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)	0.36375 mm (H) x 0.36375 mm (V)
Aspect Ratio	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
Video Standard	PAL, NTSC	PAL, NTSC	PAL, NTSC	PAL, NTSC	PAL, NTSC
Video Inputs	1x Composite, BNC, 1x VGA, 1x HDMI	1x HDMI, 1x VGA	1x HDMI, 1x VGA, 1x DVI	1x Composite, BNC, 1x VGA, 1x HDMI	1x Composite, BNC, Looped, 1x VGA, 2xHDMI
Brightness	330 cd, m ²	250 cd, m ²	250 cd, m ²	250 cd, m ²	300 cd, m ²
Contrast Ratio	800:1	1000:1	1000:1	1000:1	3000:1
Number of Colours	262K	16.7 million	16.7 million	16.7 million	16.7 million
Viewing Angle	160° (H) ~ 160° (V)	178° (H) ~ 178° (V)	170° (H) ~ 170° (V)	170° (H) ~ 170° (V)	178° (H) ~ 178° (V)
Response Time	12 ms	5 ms	5 ms	5 ms	6.5 ms
Display protection	Tempered acryl glass with anti-reflection coating	—	—	Tempered acryl glass with anti-reflection coating	—
Audio Inputs	1x 3.5mm jack (Line) , 1x HDMI	—	—	2 CH (1xHDMI, 1xMiniJack Connector)	2 CH (1xHDMI, 1xMiniJack Connector)
Speakers	yes	2 x 2 W	—	2 x 2.5 W	2 x 2 W
Vesa Mount	75 x 75 mm	100 x 100 mm	100 x 100 mm	100 x 100 mm	200 x 100 mm
OSD (On Screen Display)	Yes, multi language	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, HDMI cable and remote control	Power adapter, HDMI cable and remote control
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
Power Consumption	Max. 15 W	20 W	Max. 25 W	Max. 25 W	55 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	100 ~ 240 VAC, 50Hz / 60Hz

**GD-ML-BP2840UHD****GD-ML-BP5540UHD****GD-ML-AT4650UHD****GD-ML-AT5550UHD**






















	Professional	Professional	Premium	Premium
LCD Panel size	71 cm (28") Diagonal AM-TFT LED Backlight	140 cm (55") Diagonal AM-TFT LED Backlight	117 cm (46") Diagonal AM-TFT LED Backlight	140 cm (55") Diagonal AM-TFT LED Backlight
Pixels - Total	3840 (H) x 2160 (V)	3840 (H) x 2160 (V)	1920 (H) x 1080 (V)	1920 (H) x 1080 (V)
Pixel Pitch	0.2715 mm (H) x 0.2715 mm (V)	0.315 mm (H) x 0.315 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, SECAM	PAL, NTSC	PAL, NTSC	PAL, NTSC
Video Inputs	1x Display Port, 3x HDMI	1x Display Port, 3x HDMI	1x Display Port, 1x DVI, 1x HDMI, 1x VGA, 1x BNC Composite (1Vpp) looped	1x Display Port, 1x DVI, 1x HDMI, 1x VGA, 1x BNC Composite (1Vpp) looped
Brightness	300 cd, m ²	350 cd, m ²	500 cd, m ²	500 cd, m ²
Contrast Ratio	1000:1	4000:1	4000:1	4000:1
Number of Colours	1073 G	1073 G	16.7 million	16.7 million
Viewing Angle	170° (H) ~ 160° (V)	178° (H) ~ 178° (V)	178° (H) ~ 178° (V)	178° (H) ~ 178° (V)
Response Time	1.5 ms	5 ms	5 ms	5 ms
Display protection	—	—	—	—
Audio Inputs	1x HDMI	—	—	—
Speakers	2 x 5 W	—	—	—
Vesa Mount	100 x 100 mm	400 x 400 mm	500 x 400 mm	600 x 400 mm
OSD (On Screen Display)	Yes, multi language	Yes, multi language	Yes, multi language	Yes, multi language
Accessories included	Stand, power cable, HDMI cable and remote control	Power Adapter and HDMI cable, remote control	Power Adapter and Software CD	Power Adapter and Software CD
Regulation	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant	CE, EAC, FCC, RoHS Compliant
Power Consumption	Max. 25 W	Max. 130 W	Max: 143W/h, Typical: 87W/h, BTU:488W/h	Max:198W, Typ.:136W, BTU(Max):524.14W
Supply Voltage	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz	100 ~ 240 VAC, 50Hz / 60Hz

RESOLUTION 5 MEGAPIXCELS VERSUS 2 MEGAPIXCELS

























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.



	GD-CI-AP2605B GD-CI-AT4505B GD-CI-AT8505B		GD-BR-AWA03 Wall Mount Bracket for Box Camera
	GD-CI-AC2616E GD-CI-AC5617E	   	GD-BR-AJX04 Junction Box GD-BR-AJX14 Junction Box inclined GD-BR-AMW14 Wall Mount Bracket GD-BR-AMC02 Corner Mount Bracket
	GD-CI-CP4637E	    	GD-BR-AMP08 Pendant Mount Bracket GD-BR-AMW04 Wall Mount Bracket GD-BR-AWJ01 Wall Mount Bracket with Junction Box GD-BR-AMC01 Corner Mount Bracket GD-BR-AML03 Pole Mount Bracket
	GD-CI-AP8617E		GD-BR-AMC03 Corner Mount Bracket
	GD-CI-BC2626V GD-CI-BC4637V	    	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-DC2616V GD-CI-CC4617V GD-CI-DC4617V GD-CI-AP4617V	    	GD-BR-AJX03 Junction Box GD-BR-AMP09 Pendant Mount Bracket GD-BR-AMW05 Wall Mount Bracket GD-BR-AWJ02 Wall Mount Bracket with Junction Box GD-BR-ASN01 Sunshield for Fixed Dome Cameras
	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-CI-AP4637V	   	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

	GD-CI-BP8637V		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-BR-AMC01 Corner Mount Bracket
			GD-BR-AML03 Pole Mount Bracket
	GD-CI-AT4537VH		GD-BR-AMF10 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-BR-ASN01 Sunshield for Fixed Dome Cameras
	GD-CI-AP5617F		GD-BR-AMF03 Junction Box inclined
			GD-BR-AMP12 Pendant Mount Bracket
			GD-BR-AMW06 Wall Mount Bracket
	GD-CI-BT12617F		GD-BR-AJX08 Junction Box
			GD-BR-AMW19 Wall Mount Bracket
	GD-CI-CC2616T		GD-BR-AJX05 Junction Box
	GD-CI-DC2616T		
	GD-CI-CC4617T		
	GD-CI-DC4617T		

	GD-CI-BC4637T		GD-BR-AJX04 Junction Box
	GD-CI-AP4617T		GD-BR-AMC03 Corner Mount Bracket
	GD-CI-AP6637T		GD-BR-AML01 Pole Mount Bracket
	GD-CI-BP8637T		
	GD-CI-AP2627T		GD-BR-AMC01 Corner Mount Bracket
	GD-CI-AP4637T		GD-BR-AML03 Pole Mount Bracket
	GD-CI-CT2647T		
	GD-CI-DT2647T		
	GD-CI-CT4537T		
	GD-CI-AT12637T		
	GD-CI-AT4537TH		GD-BR-AMC03 Corner Mount Bracket
	GD-CI-BT4537TH		GD-BR-AML01 Pole Mount Bracket
	GD-CI-AC4637P		GD-BR-AMP12 Pendant Mount Bracket
			GD-BR-AMW18 Wall Mount Bracket
	GD-CI-BP2647P		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-BR-AMA01 Parapet Wall Mount
	GD-CI-AP4647P		GD-BR-AMC04 Corner Mount Bracket Junction Box
	GD-CI-AP4747P		GD-BR-AML06 Pole Mount Bracket with Junction Box
			GD-BR-AMP01 Pendant Mount Bracket (long)
			GD-BR-AMP04 Pendant Mount Bracket (medium long)
			GD-BR-AMP06 Pendant Mount Bracket (short)
			GD-BR-AMP07 Pendant Mount Bracket extendable
			GD-BR-AMS01 Swan Neck Mount
			GD-BR-AMW10 Wall Mount Bracket
			GD-BR-AWJ04 Wall Mount Bracket with Junction Box

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

	GD-CI-AT30516Q		GD-BR-AMP04 Pendant Mount Bracket (medium long)
			GD-BR-AMW08 Wall Mount Bracket

	GD-CI-AT20527Q		GD-BR-AMP04 Pendant Mount Bracket (medium long)
			GD-BR-AMP06 Pendant Mount Bracket (short)
			GD-BR-AMW08 Wall Mount Bracket

	GD-TI-AP1614V		GD-BR-AJX01 Junction Box
	GD-TI-BP1603V		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-BR-AMC03 Corner Mount Bracket
	GD-TI-BP1606T		GD-BR-AML01 Pole Mount Bracket
	GD-TI-BP1610T		
	GD-TI-AT2604T		
	GD-TI-AT2607T		
	GD-TI-AT2610T		
	GD-TI-AT2615T		
	GD-TI-AT2625T		

	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-AP2817V



GD-BR-AJX03
Junction Box
GD-BR-AMP09
Pendant Mount Bracket
GD-BR-AMW20
Wall Mount Bracket
GD-BR-ASN01
Sunshield for Fixed Dome Cameras



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-AMP17
Pendant Mount Bracket
GD-BR-AMW23
Wall Mount Bracket
GD-BR-AMC03
Corner Mount Bracket
GD-BR-AML01
Pole Mount Bracket



GD-CT-BC2116T



GD-BR-AJX05
Junction Box



GD-CT-AC2126T
GD-CT-AP2837T
GD-CT-BP5837T



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



GD-LD-AC2812DC-IR

GD-LD-AC0550DC-IR

GD-LF-BT3611D-IR

GD-LF-BT1150D-IR

Essential

Essential

Premium

Premium

Lens Focal Length	2.8 ~ 12 mm	5 ~ 50 mm	3.6 ~ 11 mm	11 ~ 50 mm
Iris F-Number	F=1.6~360	F= 1.4 ~ 360	F= 1.5 ~ 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	Aluminium alloy	Polycarbonate and Glass Fiber	Aluminium alloy
Max. Image Format	1/2,7"	1/2,7"	1/1.8"	1/1.8"
Minimum Object Distance	0.3 m	0.5 m	0.2 m	1.5 m



GD-KB-AP1120P

Professional



GD-KB-AT2430P

Premium

LCD Panel size	—	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
DVR Control	Play, Stop, Pause, FF, RW, Rec, Menu, Search, Backup	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)
Operating System	Microsoft Windows® and Linux®	Android 6.0
Users	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)	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	C-WERK clients	NVR, DVR, PTZ-camera
Video Outputs	—	1x DVI, 1x HDMI
Operating Temperature	0°C ~ 45°C	-10°C ~ 55°C
Supply Voltage	5 VDC by USP port	12 VDC, PoE (IEEE 802.3af)
Power Consumption	Max. 2 W	Max. 15.5 W

1 2 3 4 5 6 7 8 9 10

GD-CI-AT8746P

<p>1 GD: Grundig</p> <p>2 C: Camera</p> <p>3 I: IP</p> <p>4 Version N° A-Z</p> <p>5 Product Line C: Essential P: Professional T: Premium</p> <p>6 Resolution 1-12 Mpx</p> <p>7 Voltage 0: 230V AC 1: 12V DC 2: 24V AC 3: 12V DC / 24V AC 4: PoE</p>	<p>5: 12V DC / 24V AC / PoE 6: 12V DC / PoE 7: 24V AC / PoE 8: 12V DC / PoC</p> <p>8 Lens 0: No Lens 1: Fix Lens 2: Vario Focal Lens 3: Motorized Vario Focal Lens 4: Motorized Zoom Lens</p>	<p>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</p>	<p>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</p>
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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:



Identify licence plates



Classify persons & vehicles



Identify faces



Enter area



AI

FUNCTIONALITY

Detect left/removed objects



Use heat map



Cross lines



Manage queues



Analyse crowds



Count people/objects



Detect unusual noises



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Errors excepted | Grundig reverses the right to change specifications without notice | ABETECHS GMBH 2023

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