

# Intelligent video *surveillance*

Product-Guide 2020

**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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# H.265

## H.265

High-efficiency video coding (HEVC), also known as H.265, is a video compression standard, one of several potential successors to the widely used H.264 or MPEG-4. In comparison to AVC, HEVC offers about double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate. Most new GRUNDIG cameras, and all its embedded recording devices, make use of H.265 high-efficiency video coding.



## 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.



## GRUNDIG License Plate Recognition System (LPR)

Powered with recognition technologies, GRUNDIG License Plate Recognition Systems recognize and log vehicle license plates – even when they are moving – and searches for them in a database. It also logs all vehicles that pass through a specified zone, records an image of the car and plate, and notes the date, registration time, and direction of each vehicle. Use LPR to identify stolen or hijacked vehicles, automate transport registration, and provide access control at secured locations. You can even use it to plan out and monitor important parking areas. For automated parking lots, GRUNDIG Auto Intellect saves money and provides even more features. Identify vehicle owners, collect payments, and increase security automatically.



## Form factor

GRUNDIG chooses optimal housing design to make the installation of cameras much easier. Most GRUNDIG products integrate the camera module, professional video lenses, the infrared illuminator, and the power supply in the compact camera unit. This significantly reduces the time of installation. IP cameras are also PoE-powered to reduce costs and time of installation. Cameras with motorized lenses can be applied in numerous situations and are easy to adjust – there are no more headaches with unsharp images, especially in dim light situations.



**GD-CI-AP2605B**

**GD-CI-BT2505B**

**GD-CI-AT2505B**

**GD-CI-AT4505B**

**GD-CI-AT8505B**

**GD-CI-AP4617C**

**GD-CI-AC2615M**

|                             | Professional                        | Premium                             | Premium                             | Premium                             | Premium                             | Professional                        | Essential                        |
|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|
| Video Resolution            | 1920 x 1080                         | 1920 x 1080                         | 1920 x 1080                         | 2560 x 1440                         | 3840 x 2160                         | 2688 x 1520                         | 1920 x 1080                      |
| Sensitivity Colour          | 0.005 Lux @ F1.2 (AGC ON)           | 0.002 Lux @ F1.2 (AGC ON)           | 0.002 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)            | 0,1 Lux @ F1.2 (AGC ON)          |
| Lens Focal Length           | —                                   | —                                   | —                                   | —                                   | —                                   | 2.8 mm                              | 4.3 mm                           |
| Colour/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                              | 140 dB                              | 140 dB                              | 120 dB                              | 120 dB                              | Digital                          |
| Image Enhancement           | BLC, 3D DNR                         | BLC, 3D DNR, Defog, EIS, HLC        | BLC, 3D DNR, Defog, EIS, HLC        | BLC, 3D DNR, Defog, EIS, HLC        | BLC, 3D DNR, Defog, EIS, HLC        | BLC, 3D DNR, HLC                    | BLC, 3D DNR, HLC                 |
| Max. IR Distance            | —                                   | —                                   | —                                   | —                                   | —                                   | Up to 10 m                          | —                                |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.264, H.265, MJPEG              |
| SD memory slot              | Up to 128 GB, ANR Function          | Up to 128 GB, ANR Function          | Up to 256 GB, ANR Function          | Up to 256 GB, ANR Function          | Up to 256 GB, ANR Function          | Up to 128 GB, ANR Function          | Up to 128 GB                     |
| Video Outputs               | 1x CVBS (1Vpp) , BNC                | 1x CVBS (1Vpp) , BNC, Test Monitor  | 1 Vpp, 750hm, BNC cable             | 1x CVBS (1Vpp) , BNC, Test Monitor  | 1x CVBS (1Vpp) , BNC, Test Monitor  | —                                   | 1x CVBS (1Vpp) , BNC             |
| Alarm Input/Output          | yes                                 | yes                                 | yes                                 | yes                                 | yes                                 | —                                   | —                                |
| Audio Input/Output          | yes                                 | yes                                 | yes                                 | yes                                 | yes                                 | —                                   | —                                |
| Intelligent Video Analytics | Several Analytics Functions         | Several Analytics Functions         | LPR & more                          | Several Analytics Functions         | Several Analytics Functions         | Several Analytics Functions         | Motion Detection                 |
| Surge Protection            | —                                   | —                                   | —                                   | yes                                 | —                                   | —                                   | —                                |
| 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]    | -30 °C ~ 60 °C [-22 °F ~ 140 °F]    | -10 °C ~ 50 °C [-14 °F ~ 122 °F]    | -10 °C ~ 50 °C [-14 °F ~ 122 °F] |
| Supply Voltage              | 12 VDC, 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 ±10%                      |
| Power Consumption           | Max. 6 W                            | Max. 6 W                            | Max. 10 W                           | Max. 8 W                            | Max. 10 W                           | Max. 7 W                            | Max. 4 W                         |



**GD-CI-CC2616V**

**GD-CI-DC2616V**

**GD-CI-CC4617V**

**GD-CI-DC4617V**

**GD-CI-BC2626V**

**GD-CI-BC4627V**

|                             | Essential                           | Essential                           | Essential                           | Essential                           | Essential                           | Essential                           |
|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Video Resolution            | 1920 x 1080                         | 1920 x 1080                         | 2560 x 1440                         | 2560 x 1440                         | 1920 x 1080                         | 2560 x 1440                         |
| Sensitivity Colour          | 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)            | 0.01 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                         | 2.8 - 12 mm                         |
| Colour/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          | Digital                             | Digital                             | 120 dB                              | 120 dB                              | Digital                             | 120 dB                              |
| Image Enhancement           | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         |
| 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                          |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG |
| SD memory slot              | —                                   | —                                   | —                                   | —                                   | Up to 128 GB, ANR Function          | Up to 128 GB, ANR Function          |
| Video Outputs               | —                                   | —                                   | —                                   | —                                   | 1x CVBS (1Vpp) , BNC                | 1x CVBS (1Vpp) , BNC                |
| Alarm Input/Output          | —                                   | —                                   | —                                   | —                                   | —                                   | —                                   |
| Audio Input/Output          | —                                   | —                                   | —                                   | —                                   | —                                   | —                                   |
| Intelligent Video Analytics | Motion Detection                    | Motion Detection                    | Motion Detection                    | Motion Detection                    | Motion Detection                    | Motion Detection                    |
| Surge Protection            | —                                   | —                                   | —                                   | —                                   | —                                   | —                                   |
| 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, 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. 7 W                            | Max. 5 W                            | Max. 5 W                            | Max. 5 W                            | Max. 6 W                            | Max. 8 W                            |





GD-CI-BC4637V



GD-CI-AP4617V



GD-CI-AP4617W



GD-CI-AP2627V



GD-CI-AP4637V



GD-CI-AT2637VH

|                             | Essential                              | Professional                        | Professional                        | Professional                           | Professional                           | Premium                                |
|-----------------------------|--|-------------------------------------|-------------------------------------|--|--|--|
| Video Resolution            | 2560 x 1440                            | 2560 x 1440                         | 2688 x 1520                         | 1920 x 1080                            | 2560 x 1440                            | 1920 x 1080                            |
| Sensitivity Colour          | 0.01 Lux @ F1.2 (AGC ON)               | 0.018 Lux @ F1.6 (AGC ON)           | 0.01 Lux @ F1.2 (AGC ON)            | 0.005 Lux @ F1.2                       | 0.018 Lux @ F1.6 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)              |
| Lens Focal Length           | 2.8 ~ 12 mm motorized vario focal lens | 2.8 mm                              | 2.8 mm                              | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens |
| Colour/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                                 | 140 dB                                 |
| Image Enhancement           | BLC, 3D DNR                            | BLC, 3D DNR                         | BLC, 3D DNR, HLC                    | BLC, 3D DNR, HLC                       | BLC, 3D DNR                            | BLC, 3D DNR, Defog, EIS, HLC           |
| Max. IR Distance            | Up to 30 m                             | Up to 30 m                          | Up to 10 m                          | 20, 30m (according to scene reflexion) | Up to 30 m                             | Up to 30 m                             |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    |
| SD memory slot              | Up to 128 GB, ANR Function             | Up to 128 GB, ANR Function          | Up to 128 GB, ANR Function          | Up to 128 GB, ANR Function             | Up to 128 GB, ANR Function             | Up to 256 GB, ANR Function             |
| Video Outputs               | 1x CVBS (1Vpp) , BNC                   | —                                   | —                                   | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     |
| Alarm Input/Output          | —                                      | yes                                 | yes                                 | yes                                    | yes                                    | yes                                    |
| Audio Input/Output          | —                                      | yes                                 | yes                                 | yes                                    | yes                                    | yes                                    |
| Intelligent Video Analytics | Motion Detection                       | Several Analytics Functions         | Several Analytics Functions         | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            |
| Surge Protection            | —                                      | yes                                 | —                                   | —                                      | yes                                    | yes                                    |
| 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, 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+ (802.3at)                 |
| Power Consumption           | Max. 12 W                              | Max. 6 W                            | Max. 10 W                           | Max. 11 W                              | Max. 12 W                              | Max. 17 W                              |



GD-CI-AT2637V



GD-CI-AT3637V



GD-CI-AT4637VH



GD-CI-AT4637V



GD-CI-AT8637V



GD-CI-BP4637E

|                             | Premium                                | Premium                                | Premium                                | Premium                                | Premium                                | Professional                           |
|-----------------------------|--|--|--|--|--|--|
| Video Resolution            | 1920 x 1080                            | 2048x1536                              | 2560 x 1440                            | 2560 x 1440                            | 3840 x 2160                            | 2688 x 1520                            |
| Sensitivity Colour          | 0.002 Lux @ F1.2 (AGC ON)              | 0.005 Lux @ F1.2 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)              | 0.01 Lux @ F1.2 (AGC ON)               | 0.01 Lux @ F1.2 (AGC ON)               |
| Lens Focal Length           | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens |
| Colour/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                                 | 120 dB                                 | 140 dB                                 | 140 dB                                 | 120 dB                                 | 120 dB                                 |
| Image Enhancement           | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR                            | 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                             |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    |
| SD memory slot              | Up to 256 GB, ANR Function             | Up to 128 GB, ANR Function             | Up to 256 GB, ANR Function             | Up to 256 GB, ANR Function             | Up to 128 GB, ANR Function             | Up to 128 GB, ANR Function             |
| Video Outputs               | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | —                                      |
| Alarm Input/Output          | yes                                    | yes                                    | yes                                    | yes                                    | yes                                    | yes                                    |
| Audio Input/Output          | yes                                    | yes                                    | yes                                    | yes                                    | yes                                    | yes                                    |
| Intelligent Video Analytics | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            |
| Surge Protection            | yes                                    | —                                      | yes                                    | yes                                    | —                                      | yes                                    |
| Operating Temperature       | -30 °C ~ 60 °C [-22 °F ~ 140 °F]       | -40 °C ~ 60 °C [-40 °F ~ 140 °F]       | -40 °C ~ 65 °C [-40 °F ~ 149 °F]       | -40 °C ~ 65 °C [-40 °F ~ 149 °F]       | -30 °C ~ 60 °C [-22 °F ~ 140 °F]       | -30 °C ~ 60 °C [-22 °F ~ 140 °F]       |
| Supply Voltage              | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE (IEEE 802.3af)             | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE (IEEE 802.3af)             | 12 VDC, PoE (IEEE 802.3af)             |
| Power Consumption           | Max. 12 W                              | Max. 10 W                              | Max. 17 W                              | Max. 12 W                              | Max. 12 W                              | Max. 10 W                              |





**GD-CI-AP5617F**



**GD-CI-AT12617F**



**GD-CI-BT12617F**

|                             | Professional                        | Premium                          | Premium                             |
|-----------------------------|-------------------------------------|----------------------------------|-------------------------------------|
| Video Resolution            | 2560 x 1920                         | 4000 x 3000                      | 4000 x 3000                         |
| Sensitivity Colour          | 0.01 Lux @ F1.2 (AGC ON)            | 0.01 Lux @ F1.2 (AGC ON)         | 0.05 Lux @ F2.2 (AGC ON)            |
| Lens Focal Length           | 1.05 mm                             | 2 mm                             | 1.29 mm                             |
| Colour/B&W                  | IR-cut filter removable (ICR)       | IR-cut filter removable (ICR)    | IR-cut filter removable (ICR)       |
| Wide Dynamic Range          | 120 dB                              | Digital                          | Digital                             |
| Image Enhancement           | BLC, 3D DNR, Defog                  | BLC, 3D DNR                      | BLC, 3D DNR, Defog, HLC             |
| Max. IR Distance            | Up to 8 m                           | Up to 15 m                       | Up to 15 m                          |
| Video Compression           | H.264, H.265, MJPEG, MPEG4, Wavelet | H.264, MJPEG                     | H.265+, H.265, H.264+, H.264, MJPEG |
| SD memory slot              | Up to 128 GB, ANR Function          | Up to 128 GB, ANR Function       | Up to 128 GB, ANR Function          |
| Video Outputs               | —                                   | —                                | —                                   |
| Alarm Input/Output          | yes                                 | yes                              | yes                                 |
| Audio Input/Output          | yes                                 | yes                              | yes                                 |
| Intelligent Video Analytics | Several Analytics Functions         | Several Analytics Functions      | Several Analytics Functions         |
| Panomorph Lens              | —                                   | —                                | yes                                 |
| Operating Temperature       | -10 °C ~ 50 °C [-14 °F ~ 122 °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)          |
| Power Consumption           | Max. 6.7 W                          | Max. 15 W                        | Max. 15 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-CC2616T**



**GD-CI-DC2616T**



**GD-CI-CC4617T**



**GD-CI-DC4617T**



**GD-CI-BC2626T**



**GD-CI-BC4627T**

|                             | Essential                           | Essential                           | Essential                           | Essential                           | Essential                           | Essential                           |
|-----------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Video Resolution            | 1920 x 1080                         | 1920 x 1080                         | 2560 x 1440                         | 2560 x 1440                         | 1920 x 1080                         | 2560 x 1440                         |
| Sensitivity Colour          | 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)            | 0.01 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                         | 2.8 ~ 12 mm                         |
| Colour/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          | Digital                             | Digital                             | 120 dB                              | 120 dB                              | Digital                             | 120 dB                              |
| Image Enhancement           | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         | BLC, 3D DNR                         |
| 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                          |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG |
| SD memory slot              | —                                   | —                                   | —                                   | —                                   | Up to 128 GB, ANR Function          | Up to 128 GB, ANR Function          |
| Video Outputs               | —                                   | —                                   | —                                   | —                                   | 1x CVBS (1Vpp) , BNC                | 1x CVBS (1Vpp) , BNC                |
| Alarm Input/Output          | —                                   | —                                   | —                                   | —                                   | —                                   | —                                   |
| Audio Input/Output          | —                                   | —                                   | —                                   | —                                   | —                                   | —                                   |
| Intelligent Video Analytics | Motion Detection                    | Motion Detection                    | Motion Detection                    | Motion Detection                    | Motion Detection                    | Motion Detection                    |
| Surge Protection            | —                                   | —                                   | —                                   | —                                   | —                                   | —                                   |
| 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, 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. 5 W                            | Max. 5 W                            | Max. 5 W                            | Max. 5 W                            | Max. 7 W                            | Max. 7 W                            |





**GD-CI-BC4637T**   **GD-CI-AP4617T**   **GD-CI-AP2627T**   **GD-CI-AP4637T**   **GD-CI-CT2647T**   **GD-CI-DT2647T**   **GD-CI-AT2637TH**

|                             | Essential                              | Professional                        | Professional                           | Professional                           | Premium                                | Premium                              | Premium                                |
|-----------------------------|--|-------------------------------------|--|--|--|--------------------------------------|--|
| Video Resolution            | 2560 x 1440                            | 2560 x 1440                         | 1920 x 1080                            | 2560 x 1440                            | 1920 x 1080                            | 1920 x 1080                          | 1920 x 1080                            |
| Sensitivity Colour          | 0.01 Lux @ F1.2 (AGC ON)               | 0.018 Lux @ F1.6 (AGC ON)           | 0.005 Lux @ F1.2                       | 0.018 Lux @ F1.6 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)            | 0.002 Lux @ F1.2 (AGC ON)              |
| Lens Focal Length           | 2.8 ~ 12 mm motorized vario focal lens | 4 mm                                | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 8 ~ 32 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens |
| Colour/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                                 | 140 dB                               | 140 dB                                 |
| Image Enhancement           | BLC, 3D DNR                            | BLC, 3D DNR                         | BLC, 3D DNR, HLC                       | BLC, 3D DNR                            | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, Defog, EIS, HLC         | BLC, 3D DNR, Defog, EIS, HLC           |
| Max. IR Distance            | Up to 30 m                             | Up to 50 m                          | Up to 50 m                             | 50 m                                   | Up to 50 m                             | Up to 100 m                          | Up to 50 m                             |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG  | H.265+, H.265, H.264+, H.264, MJPEG    |
| SD memory slot              | Up to 128 GB, ANR Function             | Up to 128 GB, ANR Function          | Up to 256 GB, ANR Function             | Up to 256 GB, ANR Function             | Up to 256 GB, ANR Function             | Up to 256 GB, ANR Function           | Up to 256 GB, ANR Function             |
| Video Outputs               | 1x CVBS (1Vpp) , BNC                   | —                                   | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor   | 1x CVBS (1Vpp) , BNC, Test Monitor     |
| Alarm Input/Output          | —                                      | —                                   | yes                                    | yes                                    | yes                                    | yes                                  | yes                                    |
| Audio Input/Output          | —                                      | —                                   | yes                                    | yes                                    | —                                      | —                                    | —                                      |
| Intelligent Video Analytics | Motion Detection                       | Several Analytics Functions         | Several Analytics Functions            | Several Analytics Functions            | LPR & more                             | LPR & more                           | Several Analytics Functions            |
| Surge Protection            | —                                      | yes                                 | —                                      | yes                                    | —                                      | —                                    | yes                                    |
| 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]     | -60 °C ~ 65 °C [-76 °F ~ 149 °F]       |
| Supply Voltage              | 12 VDC, PoE (IEEE 802.3af)             | 12 VDC, PoE (IEEE 802.3af)          | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)               | 12 VDC, PoE+ (802.3at)                 |
| Power Consumption           | Max. 12,9 W                            | Max. 9.5 W                          | Max. 16.5 W                            | Max. 18 W                              | Max. 14.5 W                            | Max. 14.5 W                          | Max. 18 W                              |



**GD-CI-AT2637T**   **GD-CI-AT3637T**   **GD-CI-AT4637TH**   **GD-CI-AT4637T**   **GD-CI-BT4637T**   **GD-CI-AT8637T**   **GD-CI-AT12626T**

|                             | Premium                                | Premium                                | Premium                                | Premium                                | Premium                              | Premium                                | Premium   |
|-----------------------------|--|--|--|--|--------------------------------------|--|---|
| Video Resolution            | 1920 x 1080                            | 2048x1536                              | 2560 x 1440                            | 2560 x 1440                            | 2560 x 1440                          | 3840 x 2160                            | 4000 x 3000   |
| Sensitivity Colour          | 0.002 Lux @ F1.2 (AGC ON)              | 0.005 Lux @ F1.2 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)              | 0.002 Lux @ F1.2 (AGC ON)            | 0.005 Lux @ F1.2 (AGC ON)              | 0.008 Lux @ F1.2 (AGC ON)                           |
| Lens Focal Length           | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 8 ~ 32 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens | 2.8 ~ 12 mm motorized vario focal lens              |
| Colour/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          | 140 dB                                 | 120 dB                                 | 140 dB                                 | 140 dB                                 | 140 dB                               | 120 dB                                 | Digital   |
| Image Enhancement           | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, HLC                       | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, Defog, EIS, HLC           | BLC, 3D DNR, Defog, EIS, HLC         | BLC, 3D DNR                            | BLC, 3D DNR, Defog, EIS, HLC, Distortion Correction |
| Max. IR Distance            | Up to 50 m                             | Up to 50 m                             | Up to 50 m                             | Up to 50 m                             | Up to 100 m                          | Up to 60 m                             | Up to 50 m  |
| Video Compression           | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG  | H.265+, H.265, H.264+, H.264, MJPEG    | H.265+, H.265, H.264+, H.264, MJPEG                 |
| SD memory slot              | Up to 256 GB, ANR Function             | Up to 128 GB, ANR Function             | Up to 256 GB, ANR Function             | Up to 256 GB, ANR Function             | Up to 256 GB, ANR Function           | Up to 128 GB, ANR Function             | Up to 256 GB, ANR Function                          |
| Video Outputs               | 1x CVBS (1Vpp) , BNC, Test Monitor     | —                                      | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor   | 1x CVBS (1Vpp) , BNC, Test Monitor     | 1x CVBS (1Vpp) , BNC, Test Monitor                  |
| Alarm Input/Output          | yes                                    | yes                                    | yes                                    | yes                                    | yes                                  | yes                                    | yes   |
| Audio Input/Output          | —                                      | yes                                    | —                                      | —                                      | —                                    | yes                                    | —   |
| Intelligent Video Analytics | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions            | Several Analytics Functions          | Several Analytics Functions            | Several Analytics Functions                         |
| Surge Protection            | yes                                    | yes                                    | yes                                    | yes                                    | yes                                  | yes                                    | —   |
| Operating Temperature       | -40 °C ~ 60 °C [-40 °F ~ 140 °F]       | -40 °C ~ 60 °C [-40 °F ~ 140 °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 ~ 60 °C [-40 °F ~ 140 °F]       | -30 °C ~ +65 °C [-22 °F ~ 149 °F]                   |
| Supply Voltage              | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE+ (802.3at)               | 12 VDC, PoE+ (802.3at)                 | 12 VDC, PoE (IEEE 802.3af)                          |
| Power Consumption           | Max. 13 W                              | Max. 15.5 W                            | Max. 18 W                              | Max. 13 W                              | Max. 15 W                            | Max. 19 W                              | Max. 13 W   |





**GD-CI-AC4637P**

Essential



**GD-CI-AP2647P**

Professional



**GD-CI-AP2747P**

Professional



**GD-CI-BP2747P**

Professional



**GD-CI-AP4746P**

Professional



**GD-CI-AT4747P**

Premium



**GD-CI-AT8746P**

Premium

|                         |  |                                  |  |  |  |  |  |
|-------------------------|--|----------------------------------|--|--|--|--|--|
| Image Sensor            | 1/3" progressive Scan CMOS   | 1/2.8" progressive Scan CMOS     | 1/2.8" progressive Scan CMOS   | 1/2.8" progressive Scan CMOS   | 1/1.9" progressive scan CMOS   | 1/1.8" progressive Scan CMOS   | 2/3" progressive scan CMOS   |
| Video Resolution        | 2560 x 1440  | 1920 x 1080                      | 1920 x 1080  | 1920 x 1080  | 2560 x 1440  | 2560 x 1440  | 4096 x 2160  |
| Sensitivity Colour      | 0.005 Lux @ (F1.6, AGC ON)   | 0.05 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)   | 0.002 Lux @ F1.5 (AGC ON)  | 0.005 Lux @ (F1.5, AGC ON)   |
| Lens Focal Length       | 2.8 - 12 mm motorized, Autofocus                                     | 4.7 - 94 mm motorized, autofocus | 4.8 - 153 mm motorized, autofocus                                    | 4.8 - 153 mm motorized, autofocus                                    | 5.9 - 177 mm motorized, autofocus                                    | 5.7 - 205.2 mm motorized, autofocus                                  | 7.5 - 270 mm motorized, autofocus                                    |
| Optical Zoom Ratio      | 4x   | 20x                              | 32x  | 32x  | 30X  | 36x  | 36x  |
| 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)  |
| Number of Privacy Zones | 24 programmable zones  | 8 programmable zones             | 24 programmable zones  | 24 programmable zones  | 8 programmable zones   | 24 programmable zones  | 24 programmable zones  |
| Image Enhancement       | AGC, BLC, 3D DNR, HLC, Defog, EIS, Regional Exposure, Regional Focus | BLC, 3D DNR                      | AGC, BLC, 3D DNR, HLC, Defog, EIS, Regional Exposure, Regional Focus | AGC, BLC, 3D DNR, HLC, Defog, EIS, Regional Exposure, Regional Focus | AGC, BLC, 3D DNR, HLC, Defog, EIS, Regional Exposure, Regional Focus | AGC, BLC, 3D DNR, HLC, Defog, EIS, Regional Exposure, Regional Focus | AGC, BLC, 3D DNR, HLC, Defog, EIS, Regional Exposure, Regional Focus |
| Max. IR Distance        | Up to 20 m   | Up to 50 m                       | Up to 180m   | Up to 200m   | Up to 200m   | Up to 200m   | Up to 200m   |
| SD memory slot          | Up to 256 GB, ANR Function   | Up to 128 GB, ANR Function       | Up to 128 GB, ANR Function   | Up to 128 GB, ANR Function   | Up to 128 GB, ANR Function   | Up to 256 GB, ANR Function   | Up to 256 GB, ANR Function   |
| Video Outputs           | —  | —                                | —  | —  | —  | 1x CVBS (1Vpp) , BNC, Test Monitor                                   | 1x CVBS (1Vpp) , BNC   |
| Alarm Input/Output      | yes  | yes                              | —  | yes  | yes  | yes  | yes  |
| Audio Input/Output      | yes  | yes                              | yes  | yes  | yes  | yes  | yes  |
| Surge Protection        | yes  | yes                              | yes  | yes  | yes  | yes  | yes  |
| Operating Temperature   | -30 °C ~ 60 °C [-22 °F ~ 140 °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 ~ 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+ (802.3at)           | 24 VAC, PoE+ (IEEE 802.3at)  | 24 VAC, PoE+ (IEEE 802.3at)  | 24 VAC, PoE+ (IEEE 802.3at)  | 24 VAC, PoE+ (IEEE 802.3at)  | 24 VAC, Hi-PoE (IEEE 802.3bt)  |
| Power Consumption       | Max. 12 W  | Max. 18 W                        | Max. 30 W  | Max. 40 W  | Max. 40 W  | Max. 60W   | Max. 60W   |



- 1 GD:** Grundig
- 2 C:** Camera
- 3 I:** IP
- 4 Version N°** A-Z
- 5 Product Line**  
C: Essential  
P: Professional  
T: Premium
- 6 Resolution**  
1-12 Mpx
- 7 Voltage**  
0: 230V AC  
1: 12V DC  
2: 24V AC  
3: 12V DC / 24V AC  
4: PoE

- 5:** 12V DC / 24V AC / PoE
- 6:** 12V DC / PoE
- 7:** 24V AC / PoE
- 8:** 12V DC / PoC

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

- 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
- 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



|                       | <br><b>GD-RN-AC2004P</b> | <br><b>GD-RN-AC2416N</b> | <br><b>GD-RN-AC2416P</b> | <br><b>GD-RN-AP8616P</b> | <br><b>GD-RN-AP8632P</b> | <br><b>GD-RN-CT8832N</b> |
|-----------------------|---|---|--|---|---|---|
|                       | Essential   | Essential   | Essential  | Professional  | Professional  | Premium   |
| IP Inputs             | 4 channels  | 16 channels   | 16 channels  | 16 channels   | 32 channels   | 32 channels   |
| Recording Bandwidth   | max. 40 Mbps  | 160Mbps   | 160Mbps  | 160Mbps   | 256Mbps   | 320Mbps or 200Mbps (when RAID is enabled)   |
| Outgoing Bandwidth    | max. 80 Mbps  | max. 160 Mbps   | max. 160 Mbps  | 256Mbps   | 256Mbps   | 256Mbps or 200Mbps (when RAID is enabled)   |
| Recording Resolution  | Max. 8 MP   | Max. 8 MP   | Max. 8 MP  | Max. 12 MP  | Max. 12 MP  | Max. 12 MP  |
| Frame Rate            | 2-ch @ 4 MP (30fps)   | 2-ch @ 4K, or 8-ch @ 1080p  | 2-ch @ 4K, or 8-ch @ 1080p   | 2-ch @ 12 MP (20fps) , 4-ch @ 8 MP (25fps)  | 2-ch @ 12 MP (20fps) , 4-ch @ 8 MP (25fps)  | 2-ch @ 12 MP (20fps) , 4-ch @ 8 MP (25fps)  |
| 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)/ 30Hz  | 4K (3840x2160)/ 30Hz  | 4K (3840x2160)/ 30Hz   | 4K (3840x2160)/ 30Hz  | 4K (3840x2160)/ 30Hz  | HDMI1: 4K (3840 × 2160)/60Hz, HDMI2: 1920 × 1080/60Hz   |
| 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)   |
| Audio Outputs         | —   | —   | —  | 1-ch, RCA (2.0Vp-p, 1KΩ)  | 1 CH, RCA   | 2-ch, RCA (2.0Vp-p, 1KΩ)  |
| Harddisk bay          | 1 x SATA  | 2 x SATA  | 2 x SATA   | 4 x SATA  | 4 x SATA  | 8 x SATA  |
| Max. Storage Capacity | Up to 6TB capacity for each HDD   | Up to 6TB capacity for each HDD   | Up to 6TB capacity for each HDD  | Up to 6TB capacity for each HDD   | Up to 6TB capacity for each HDD   | Up to 6TB capacity for each HDD   |
| Disk Array type       | —   | —   | —  | —   | —   | HDD hot swap with RAID0, 1, 5, 6, 10 storage (4 Arrays)   |
| 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, 2U  |
| 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  | 2 x 100 ~ 240 VAC, 50Hz / 60Hz redundant power supply   |
| Power Consumption     | ≤ 65 W<br>≤ 10 W without hard disk , PoE  | ≤ 40 W without harddisk   | ≤ 280 W<br>≤ 15 W without hard disk , PoE  | ≤ 300 W<br>≤ 20 W without hard disk , PoE   | ≤ 300 W<br>≤ 20 W without hard disk , PoE   | Max. 550 W, 30W without harddisk  |

|                       | <br><b>GD-RN-AT8864N</b> | <br><b>GD-RN-AT819128N</b> |
|-----------------------|---|---|
|                       | Premium   | Premium   |
| IP Inputs             | 64 channels   | 128 channels  |
| Recording Bandwidth   | 320Mbps or 200Mbps (when RAID is enabled)   | 576Mbps   |
| Outgoing Bandwidth    | 256Mbps or 200Mbps (when RAID is enabled)   | 512 Mbps  |
| Recording Resolution  | Max. 12 MP  | Max. 12 MP  |
| Frame Rate            | 2-ch @ 12 MP (20fps) , 4-ch @ 8 MP (25fps)  | 20ch @ 1080P  |
| 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           | HDMI1: 4K (3840 × 2160)/60Hz, HDMI2: 1920 × 1080/60Hz   | HDMI1: 4K (3840 × 2160)/60Hz, HDMI2: 4K (3840 × 2160)/60Hz  |
| Audio Inputs          | 1-ch, RCA (2.0 Vp-p, 1kΩ)   | 1-ch, RCA (2.0 Vp-p, 1kΩ)   |
| Audio Outputs         | 2-ch, RCA (2.0Vp-p, 1KΩ)  | 1-ch, RCA (2.0Vp-p, 1KΩ)  |
| Harddisk bay          | 8 x SATA  | 16 x SATA   |
| Max. Storage Capacity | Up to 6TB 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 (8 Arrays)   |
| Alarm Inputs          | 16 contact input N/ O or N/ C   | 16 contact input N/ O or N/ C   |
| Alarm Outputs         | 4   | 8   |
| Power over Ethernet   | —   | —   |
| Chassis               | 19-inch rack-mounted, 2U  | 19-inch rack-mounted, 3U  |
| Supply Voltage        | 100 ~ 240 VAC, 50Hz / 60Hz  | 100 ~ 240 VAC, 50Hz / 60Hz  |
| Power Consumption     | ≤ 200 W<br>≤ 30 W without hard disk , PoE   | ≤ 500 W<br>≤ 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-AC1416R**

**GD-RX-AC1424R**

**GD-RX-AC1432R**

**GD-RX-AP1416R**

**GD-RX-AP2424R**

**GD-RX-AP2432R**

**GD-RX-AP3448R**

**GD-RX-AP3464R**

**GD-RX-AP2496R**

|                   | Essential   | Essential   | Essential   | Professional  | Professional  | Professional  |
|-------------------|---|---|---|---|---|---|
| Number of cameras | 16 channel (extendable with CAM licences)   | 24 channel (extendable with CAM licences)   | 32 channel (extendable with CAM licences)   | 16 channel (extendable with CAM licences)   | 24 channel (extendable with CAM licences)   | 32 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™ i5-8400, 6 Cores, 6 Threads, 9 MB Cache, 2.80 GHz Base Frequency, 4.00 GHz Turbo Frequency         | Intel® Core™ i5-8400, 6 Cores, 6 Threads, 9 MB Cache, 2.80 GHz Base Frequency, 4.00 GHz Turbo Frequency         | Intel® Core™ i5-8400, 6 Cores, 6 Threads, 9 MB Cache, 2.80 GHz Base Frequency, 4.00 GHz Turbo Frequency         | Intel® Core™ i5-8400, 6 Cores, 6 Threads, 9 MB Cache, 2.80 GHz Base Frequency, 4.00 GHz Turbo Frequency         | Intel® Xeon® E-2146G, 6 Cores, 12 Threads, 12 MB Cache, 3.50 GHz Base Frequency, 4.50 GHz Turbo Frequency       | Intel® Xeon® E-2146G, 6 Cores, 12 Threads, 12 MB Cache, 3.50 GHz Base Frequency, 4.50 GHz Turbo Frequency       |
| Video Compression | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) |
| Harddisk bay      | 4 x SATA  | 4 x SATA  | 4 x SATA  | 4 x SATA  | 4 x SATA  | 4 x 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  |

|                   | Professional  | Professional  | Professional  |
|-------------------|---|---|---|
| Number of cameras | 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  |
| CPU               | Intel® Xeon® W-2135, 6 Cores, 12 Threads, 8.25 MB Cache, 3.70 GHz Base Frequency, 4.50 GHz Turbo Frequency      | Intel® Xeon® W-2135, 6 Cores, 12 Threads, 8.25 MB Cache, 3.70 GHz Base Frequency, 4.50 GHz Turbo Frequency      | Intel® Xeon® E-2146G, 6 Cores, 12 Threads, 12 MB Cache, 3.50 GHz Base Frequency, 4.50 GHz Turbo Frequency       |
| Video Compression | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) | MJPEG, MPEG-4, and H.264 for analog (with encoder) and IP cameras (hundreds of models, check for compatibility) |
| Harddisk bay      | 4 x SATA  | 4 x SATA  | 4 x SATA  |
| Supply Voltage    | 220 ~ 240 VAC, 50Hz   | 220 ~ 240 VAC, 50Hz   | 220 ~ 240 VAC, 50Hz   |
| Power Consumption | Max. 400 W  | Max. 400 W  | Max. 400 W  |

## C-WERK

The Grundig Video Management System powered by C-WERK is the advanced solution for video security systems in virtually all areas of application. The C-WERK sets new standards, especially with its simple and user-friendly operation. Regardless of the requirements placed, C-WERK allows effectively meeting of 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, and you will pay for only 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](http://www.c-werk.com)**



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.

## 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.



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.



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.

**GD-CT-AC2805B**

Essential

**GD-CT-AC2116E**

Essential

**GD-CT-AC2113E**

Essential

**GD-CT-AC5813E**

Essential

**GD-CT-AP2117E**

Professional

**GD-CT-AP8117E**

Professional


|                       | GD-CT-AC2805B   | GD-CT-AC2116E                          | GD-CT-AC2113E                          | GD-CT-AC5813E                          | GD-CT-AP2117E  | GD-CT-AP8117E   |
|-----------------------|---|--|--|--|--|---|
| 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  | 8.29 Megapixel progressive scan CMOS                                      |
| Pixels - Effective    | 1944 (H) x 1092 (V)   | 1920 (H) x 1080 (V)                    | 1984 (H) x 1105 (V)                    | 2560 (H) x 1944 (V)                    | 1920 (H) x 1080 (V)  | 3840 (H) x 2160 (V)   |
| Frame Rate            | 1080p@25fps, 1080p@30fps  | 1080p@25fps, 1080p@30fps               | 1080p@25fps, 1080p@30fps               | 5 MP@20 fps, 4 MP@25fps, 1080P@25fps   | 1080p@25fps, 1080p@30fps   | 8 MP@12.5fps (15fps), 5 MP@20fps, 4 MP@25fps (30fps), 1080p@25fps (30fps) |
| Sensitivity Colour    | 0.003 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 @ F1.2   | 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   |
| Lens Focal Length     | —   | 2.8 mm                                 | 2.8 mm                                 | 2.8 mm                                 | 2.8 mm   | 3.6 mm  |
| Col/B&W               | Auto (Electronic) , Colour , 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  | —                                      | Digital WDR                            | Digital WDR                            | 130 dB   | 120 dB  |
| Image Enhancement     | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, Defog, AGC, Smart Digital Zoom, Defect Pixel Correction | BLC, 3D DNR, Anti-Flicker, Mirror, AGC | BLC, 2D DNR, Anti-Flicker, Mirror, AGC | BLC, 2D DNR, Anti-Flicker, Mirror, AGC | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, AGC, Brightness, Sharpness, Smart-IR | BLC, 3D DNR, Defog, HLC   |
| Max. IR Distance      | —   | Up to 20 m                             | Up to 20 m                             | Up to 20 m                             | Up to 20 m   | Up to 60 m  |
| Video Outputs         | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off  | 1x HD-TVI (BNC)                        | 1x HD-TVI (BNC)                        | 1x HD-TVI (BNC)                        | 1x HD-TVI (BNC)  | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off                                  |
| 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 | -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]  |
| Supply Voltage        | 12 VDC ±15%, PoC.af   | 12 VDC ±10%                            | 12 VDC ±10%                            | 12 VDC ±15%, PoC.af                    | 12 VDC ±10%  | 12 VDC ±10%   |
| Power Consumption     | Max. 7 W  | Max. 4 W                               | Max. 4 W                               | Max. 4.5 W                             | Max. 4.5 W   | Max. 5.5 W  |



|                       | GD-CT-AC2126V                          | GD-CT-AP2817V  | GD-CT-AP2837V  | GD-CT-BP2837V   | GD-CT-AP5826V                          |
|-----------------------|--|--|--|---|--|
| Image Sensor          | 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)                    | 1920 (H) x 1080 (V)  | 1920 (H) x 1080 (V)  | 1920 (H) x 1080 (V)   | 2560 (H) x 1944 (V)                    |
| Frame Rate            | 1080p@25fps, 1080p@30fps               | 1080p@25fps, 1080p@30fps   | 1080p@25fps, 1080p@30fps   | 1080p@25fps, 1080p@30fps  | 2560 x 1440@30fps                      |
| Sensitivity Colour    | 0.01 Lux @ F1.2 (AGC ON)               | 0.005 Lux @ F1.2   | 0.005 Lux @ F1.2   | 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                        |
| Lens Focal Length     | 2.8 - 12 mm                            | 2.8 mm   | 2.8 - 12 mm motorized, Autofocus   | 2.8 - 12 mm motorized vario focal lens  | 2.8 - 12 mm motorized vario focal lens |
| Col/B&W               | IR-cut filter removable (ICR)          | IR-cut filter removable (ICR)  | IR-cut filter removable (ICR)  | Auto (Electronic) , Colour , B&W  | IR-cut filter removable (ICR)          |
| Wide Dynamic Range    | Digital WDR                            | 120 dB   | 120 dB   | 120 dB  | Digital WDR                            |
| Image Enhancement     | BLC, 2D DNR, Anti-Flicker, Mirror, AGC | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, AGC, Brightness, Sharpness, Smart-IR | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, AGC, Brightness, Sharpness, Smart-IR | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, Defog, AGC, Smart Digital Zoom, Defect Pixel Correction | BLC, 2D DNR, Anti-Flicker, Mirror, AGC |
| Max. IR Distance      | Up to 40 m                             | Up to 20 m   | Up to 20 m   | —   | Up to 30 m                             |
| Video Outputs         | —                                      | 1x HD-TVI (BNC)  | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off                                     | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off  | 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           |
| 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]       |
| Supply Voltage        | 12 VDC ±10%                            | 12 VDC ±15%, PoC.af  | 12 VDC ±15%, PoC.af  | 12 VDC, 24 VAC ±30%, PoC.af   | 12 VDC ±15%, PoC.af                    |
| Power Consumption     | Max. 4 W                               | Max. 3.2 W   | Max. 7 W   | Max. 6 W  | Max. 8 W                               |

|                       |  |  |  |  |  |              |  |  |
|-----------------------|---|---|---|--|---|---|---|---|
|                       | GD-CT-AC2116T   | GD-CT-AC2126T   | GD-CT-AC5816T   | GD-CT-AC5833T  | GD-CT-AP2837T   | GD-CT-BP2837T   | GD-CT-AP5837T   | GD-CT-AP8837T   |
|                       | Essential   | Essential   | Essential   | Essential  | Professional  | Professional  | Professional  | Professional  |
| Image Sensor          | 2 Megapixel progressive scan CMOS   | 2 Megapixel progressive scan CMOS   | 5 Megapixel progressive scan CMOS   | 5 Megapixel progressive scan CMOS  | 2 Megapixel progressive scan CMOS   | 2 Megapixel progressive scan CMOS   | 5 Megapixel progressive scan CMOS   | 8.29 Megapixel progressive scan CMOS  |
| Pixels - Effective    | 1920 (H) x 1080 (V)   | 1920 (H) x 1080 (V)   | 2560 (H) x 1944 (V)   | 2560 (H) x 1944 (V)  | 1920 (H) x 1080 (V)   | 1944 (H) x 1092 (V)   | 2560 (H) x 1944 (V)   | 3840 (H) x 2160 (V)   |
| Frame Rate            | 1080p@25fps, 1080p@30fps  | 1080p@25fps, 1080p@30fps  | 2560 x 1440@30fps   | 5 MP@20 fps, 4 MP@25fps, 1080P@25fps   | 1080p@25fps, 1080p@30fps  | 1080p@25fps, 1080p@30fps  | 2560 x 1440@30fps   | 8 MP@12.5fps (15fps), 5 MP@20fps, 4 MP@25fps (30fps), 1080p@25fps (30fps)           |
| Sensitivity Colour    | 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 @ F1.2  | 0.003 Lux @ F1.2 (AGC ON)   | 0.008 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   | 0 Lux LED IR on   | 0 Lux LED IR on   |
| Lens Focal Length     | 3.6 mm  | 2.8 - 12 mm   | 3.6 mm  | 2.7 - 13.5 mm motorized vario focal lens   | 2.8 - 12 mm motorized, Autofocus  | 5 - 50 mm motorized vario lens  | 2.8 - 12 mm motorized vario focal lens  | 2.8 - 12 mm motorized vario focal lens  |
| 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   | Digital WDR   | Digital WDR  | 120 dB  | 120 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, 2D DNR, Anti-Flicker, Mirror, AGC   | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, AGC, Brightness, Sharpness, Smart-IR        | WDR, BLC, 3D DNR, Anti-Flicker, Mirror, Defog, AGC, Smart Digital Zoom, Defect Pixel Correction | BLC, 2D DNR, Anti-Flicker, Mirror, AGC  | BLC, 3D DNR, Defog, HLC   |
| Max. IR Distance      | Up to 20 m  | 25, 40 m (according to scene reflexion)   | 10, 20 m (according to scene reflexion)   | Up to 40 m   | Up to 40 m  | Up to 110 m   | Up to 50 m  | Up to 80 m  |
| Video Outputs         | 1x HD-TVI (BNC)   | —   | 1x HD-TVI (BNC)   | 1x HD-TVI (BNC)  | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off  | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off<br>Test Monitor  | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off<br>Test Monitor                            | 1x HD-TVI (BNC)<br>1x CVBS (BNC) WDR off  |
| 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  | 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 ~ 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 ±15%, PoC.af   | 12 VDC ±15%, PoC.af  | 12 VDC ±15%, PoC.af   | 12 VDC, 24 VAC  | 12 VDC ±15%, PoC.af   | 12 VDC ±10%   |
| Power Consumption     | Max. 4 W  | Max. 4 W  | Max. 5 W  | Max. 8 W   | Max. 8 W  | 20 W  | Max. 8 W  | Max. 15 W   |



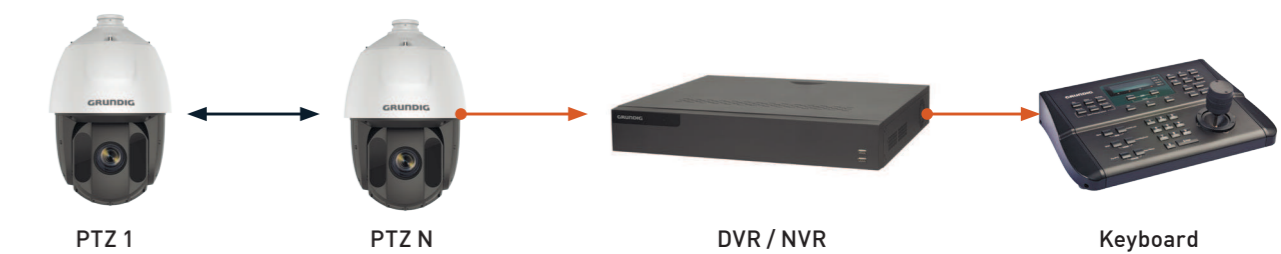
|                       |  |
|-----------------------|---|
|                       | GD-CT-AP2247P   |
|                       | Professional  |
| Image Sensor          | 2 Megapixel progressive scan CMOS   |
| Pixels - Effective    | 1920 (H) x 1080 (V)   |
| Frame Rate            | 1080p@25fps, 1080p@30fps  |
| Sensitivity Colour    | 0.05 Lux @ F1.4   |
| Sensitivity B/W       | 0 Lux LED IR on   |
| Lens Focal Length     | 4 - 92 mm   |
| Col/B&W               | Auto, Color, B&W, IR-cut filter removable (ICR)                                     |
| Wide Dynamic Range    | Digital WDR   |
| Image Enhancement     | BLC, 3D DNR, Anti-Flicker, Mirror, AGC  |
| Max. IR Distance      | Up to 150m  |
| Video Outputs         | 1x HD-TVI (BNC), 1x Composite 1.0Vp-p 75 OHM (BNC)                                  |
| Regulation            | CE, EAC, FCC, RoHS Compliant  |
| Operating Temperature | -40 °C ~ 60 °C [-40 °F ~ 140 °F]  |
| Supply Voltage        | 24 VAC, 50, 60Hz  |
| Power Consumption     | Max. 30 W   |



## DIRECT CONTROL OF PTZ-CAMERA AND DVR / NVR WITH ONE KEYBOARD

The control of the PTZ-camera is smoothly and fluently. It allows the user to follow an object in real time because there is nearly no latency between joystick turn and the corresponding move of the camera.

### PTZ CONTROL WITH DVR / NVR

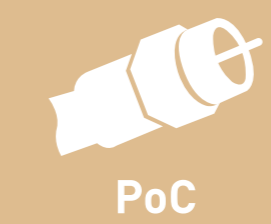


### PTZ DIRECT CONTROL



|                       | <b>GD-RT-AC3004N</b>  | <b>GD-RT-AC3016N</b>   | <b>GD-RT-AP5004P</b>  | <b>GD-RT-AP5008P</b>  | <b>GD-RT-AP5016P</b>   | <b>GD-RT-AP5016N</b>   |
|-----------------------|---|--|---|---|--|--|
|                       | Essential   | Essential  | Professional  | Professional  | Professional   | Professional   |
| Video Inputs          | 4-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection | 16-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection | 4-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection | 8-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting PoC & coaxitron connection | 16-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting PoC & coaxitron connection | 16-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection |
| HD-TVI Input          | 3 MP, 1080p30   | 3 MP, 1080p30  | 5 MP, 4 MP, 3 MP, 1080p25   | 8 MP, 5 MP, 4 MP, 3 MP, 1080p25   | 8 MP, 5 MP, 4 MP, 3 MP, 1080p25  | 8 MP, 5 MP, 4 MP, 3 MP, 1080p25  |
| AHD Input             | 1080P, 25Hz, 1080P, 30Hz  | 1080P, 25Hz, 1080P, 30Hz   | 1080P, 25Hz, 1080P, 30Hz  | 5 MP, 4 MP, 1080p25, 1080p30  | 5 MP, 4 MP, 1080p25, 1080p30   | 5 MP, 4 MP, 1080p25, 1080p30   |
| CVI Input             | 1080P, 25Hz, 1080P, 30Hz  | 1080P, 25Hz, 1080P, 30Hz   | 1080P, 25Hz, 1080P, 30Hz  | 4 MP, 1080p25, 1080p30  | 5 MP, 1080p25, 1080p30   | 6 MP, 1080p25, 1080p30   |
| CVBS Input            | PAL, NTSC   | PAL, NTSC  | PAL, NTSC   | PAL, NTSC   | PAL, NTSC  | PAL, NTSC  |
| IP Inputs             | 5 (6 IP enhance mode)   | 18 (24 IP enhance mode)  | 4 (8 IP enhance mode)   | 12 (16 IP enhance mode)   | 24 (32 IP enhance mode)  | 18 (24 IP enhance mode)  |
| Recording Resolution  | 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF                                | 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF                                 | 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                     | 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF               |
| 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+   | 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                        | 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, 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           | 1920x1080, 60Hz   | 4K (3840 x 2160)/30Hz  | 1920x1080, 60Hz   | 4K (3840 x 2160)/30Hz   | 4K (3840 x 2160)/30Hz  | 4K (3840 x 2160)/30Hz  |
| Harddisk bay          | 1 x SATA II   | 1 x SATA II  | 1 x SATA II   | 2 x SATA II   | 2 x SATA II  | 2 x SATA II  |
| Max. Storage Capacity | Up to 6TB capacity for each HDD                                       | Up to 6TB 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   | Up to 10TB capacity for each HDD                                       |
| PoC Interface         | —   | —  | 4-ch  | 8-ch  | 16-ch  | —  |
| ONVIF compliant       | Profile S, Profile G  | Profile S, Profile G   | Profile S, Profile G  | Profile S, Profile G  | Profile S, Profile G   | Profile S, Profile G   |
| 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   | 16 contact input N/ O or N/ C  |
| Alarm Outputs         | —   | —  | 1   | 4   | 1 Relay  | 4  |
| Supply Voltage        | 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   | 12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included                  |
| Power Consumption     | ≤ 6 W without hard disk   | ≤ 25W without hard disks   | ≤ 40 W without hard disk  | < 60 W without hard disk, PoC   | ≤ 140 W without hard disk, PoC   | ≤ 25W without hard disks   |

|                       | <b>GD-RT-AT5016N</b>   |
|-----------------------|--|
|                       | Premium  |
| Video Inputs          | 16-ch, BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection |
| HD-TVI Input          | 8 MP, 5 MP, 4 MP, 3 MP, 1080p25  |
| AHD Input             | 5 MP, 4 MP, 1080p25, 1080p30   |
| CVI Input             | 7 MP, 1080p25, 1080p30   |
| CVBS Input            | PAL, NTSC  |
| IP Inputs             | Up to 18-ch, up to 8 MP resolution                                     |
| Recording Resolution  | 8 MP, 5 MP, 4 MP, 3 MP, 1080p, 720p, WD1, 4CIF, VGA, CIF               |
| Video Compression     | H.264, H.264+, H.265, H.265+   |
| Recording Mode        | Continuous, Event Alarm, Motion, Video Loss, Schedule                  |
| Search Mode           | Date, Time, Event Alarm, Motion, Search Backup                         |
| External Backup       | USB HDD, USB Memory, USB DVD-R, Network, eSATA                         |
| Motion Detection      | On, Off, Area Setting  |
| HDMI Output           | HDMI1 & VGA: 1920 x 1080, 60Hz<br>HDMI2: 4K (3840 x 2160)              |
| Harddisk bay          | 4 x SATA II  |
| Max. Storage Capacity | Up to 10TB capacity for each HDD                                       |
| PoC Interface         | —  |
| ONVIF compliant       | Profile S, Profile G   |
| Alarm Inputs          | 16 contact input N/ O or N/ C  |
| Alarm Outputs         | 4  |
| Supply Voltage        | 100 ~ 240 VAC, 50Hz / 60Hz   |
| Power Consumption     | ≤ 65W without hard disks   |



## 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-AC2230HD



GD-ML-AC2430HD



GD-ML-AP2231HD



GD-ML-AP2431HD



GD-ML-AP3230HD



GD-ML-AP2830UHD



GD-ML-AP4360UHD



GD-ML-AP5560UHD






















GD-ML-AT4650UHD









































GD-ML-AT5550UHD















|                         | Professional  | Essential  | Essential  | Professional   | Professional   | Professional                                 |
|-------------------------|---|--|--|--|--|--|
| LCD Panel size          | 24.6 cm (9.7") Diagonal AM-TFT LED Backlight                      | 54.6 cm (21, 5") Diagonal AM-TFT LED Backlight           | 61 cm (23.6") Diagonal AM-TFT LED Backlight              | 54.6 cm (21, 5") 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)                                      | 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)                              | 0.248 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   | 16 : 9                                       |
| Video Standard          | PAL, NTSC   | PAL, NTSC  | PAL, NTSC  | PAL, NTSC  | PAL, NTSC  | PAL, NTSC                                    |
| Video Inputs            | 1x Composite, BNC, 1x VGA, 1x HDMI                                | 1x HDMI, 1x VGA, 1x DVI                                  | 1x HDMI, 1x VGA, 1x DVI                                  | 1x Composite, BNC, 1x VGA, 1x HDMI                       | 1x Composite, BNC, 1x VGA, 1x HDMI                       | 1x Composite, BNC, Looped, 1x VGA, 2xHDMI    |
| Brightness              | 330 cd/m <sup>2</sup>   | 250 cd/m <sup>2</sup>                                    | 250 cd/m <sup>2</sup>                                    | 250 cd/m <sup>2</sup>                                    | 250 cd/m <sup>2</sup>                                    | 300 cd/m <sup>2</sup>                        |
| Contrast Ratio          | 800:1   | 1000:1   | 1000:1   | 1000:1   | 1000:1   | 3000:1                                       |
| Number of Colours       | 262K  | 16.7 million   | 16.7 million   | 16.7 million   | 16.7 million   | 16.7 million                                 |
| Viewing Angle           | 160° (H) ~ 160° (V)   | 178° (H) ~ 178° (V)                                      | 170° (H) ~ 170° (V)                                      | 170° (H) ~ 170° (V)                                      | 170° (H) ~ 170° (V)                                      | 178° (H) ~ 178° (V)                          |
| Response Time           | 12 ms   | 5 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        | 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)                      | 2 CH (1xHDMI, 1xMiniJack Connector)          |
| Speakers                | yes   | —  | —  | 2 x 2.5 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   | 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                                      | Yes, multi language                          |
| Accessories included    | Table stand bracket, 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             | 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                             | CE, EAC, FCC, RoHS Compliant                 |
| Power Consumption       | Max. 15 W   | Max. 25 W  | Max. 25 W  | Max. 25 W  | Max. 25 W  | 55 W   |
| Supply Voltage          | 12 VDC, Power Adapter<br>100 ~ 240 VAC 50, 60Hz included          | 12 VDC, Power Adapter<br>100 ~ 240 VAC 50, 60Hz included | 12 VDC, Power Adapter<br>100 ~ 240 VAC 50, 60Hz included | 12 VDC, Power Adapter<br>100 ~ 240 VAC 50, 60Hz included | 12 VDC, Power Adapter<br>100 ~ 240 VAC 50, 60Hz included | 100 ~ 240 VAC, 50Hz / 60Hz                   |

|                         | Professional  | Professional  | Professional  | Premium  | Premium  |
|-------------------------|---|---|---|--|--|
| LCD Panel size          | 71 cm (28") Diagonal AM-TFT LED Backlight                         | 109 cm (43") 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)                                     | 3840 (H) x 2160 (V)                                     | 1920 (H) x 1080 (V)  | 1920 (H) x 1080 (V)  |
| Pixel Pitch             | 0.16 mm (H) x 0.16 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   | 16 : 9   |
| Video Standard          | PAL, NTSC   | PAL, NTSC   | PAL, NTSC   | PAL, NTSC  | PAL, NTSC  |
| Video Inputs            | 1x Display Port, 1x HDMI, 1x VGA, 1x BNC Composite (1Vpp)         | 1x Display Port, 2x HDMI, 1x VGA, 1x RS232(in/out)      | 1x Display Port, 2x HDMI, 1x VGA, 1x RS232(in/out)      | 1x Composite, BNC, Looped, 1x Composite, BNC, 1x VGA, 1x HDMI, 1 x DVI-D, 1 x DP | 1x Composite, BNC, Looped, 1x Composite, BNC, 1x VGA, 1x HDMI, 1 x DVI-D, 1 x DP |
| Brightness              | 250 cd/m <sup>2</sup>   | 450 cd/m <sup>2</sup>                                   | 500 cd/m <sup>2</sup>                                   | 500 cd/m <sup>2</sup>  | 500 cd/m <sup>2</sup>  |
| Contrast Ratio          | 1000:1  | 3000:1  | 3000:1  | 4000:1   | 4000:1   |
| Number of Colours       | 16.7 million  | 1.070 million   | 1.070 million   | 16.7 million   | 16.7 million   |
| Viewing Angle           | 170° (H) ~ 160° (V)   | 178° (H) ~ 178° (V)                                     | 178° (H) ~ 178° (V)                                     | 178° (H) ~ 178° (V)  | 178° (H) ~ 178° (V)  |
| Response Time           | 5 ms  | 5 ms  | 8 ms  | 5 ms   | 5 ms   |
| Display protection      | —   | —   | —   | —  | —  |
| Audio Inputs            | 1x 3.5mm jack (Line) , 1x HDMI                                    | —   | —   | —  | —  |
| Speakers                | 2 x 5 W   | 2 x 5 W   | 2 x 5 W   | —  | —  |
| Vesa Mount              | 100 x 100 mm  | 400 x 400 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  | Yes, multi language  |
| Accessories included    | Table stand bracket, power adapter, HDMI cable and remote control | Wall bracket, power cord, HDMI cable and remote control | Wall bracket, power cord, 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. 40 W   | 130 W   | 150 W   | Max: 143W, Typical: 87W,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   | 100 ~ 240 VAC, 50Hz / 60Hz   |

|   |   |   |  |
|---|---|---|--|
|    | GD-CI-AP2605B<br>GD-CI-AT2505B<br>GD-CI-AT4505B<br>GD-CI-AT8505B<br>GD-CI-BT2505B |    | GD-BR-AWA03<br>Box Camera Wall Mount Bracket       |
|    | GD-CI-BC2626V<br>GD-CI-BC4627V<br>GD-CI-BC4637V                                   |    | GD-BR-AJX01<br>Junction Box                        |
|   |   |    | GD-BR-AMP08<br>Pendant Mount Bracket               |
|   |   |    | GD-BR-AMW04<br>Wall Mount Bracket                  |
|   |   |    | GD-BR-AWJ01<br>Wall Mount Bracket and Junction Box |
|    | GD-CI-AP4617V<br>GD-CI-CC2616V<br>GD-CI-CC4617V<br>GD-CI-DC2616V<br>GD-CI-DC4617V |    | GD-BR-AJX03<br>Junction Box                        |
|   |   |    | GD-BR-AMP09<br>Pendant Mount Bracket               |
|   |   |    | GD-BR-AMW05<br>Wall Mount Bracket                  |
|   |   |    | GD-BR-ASN01<br>Sunshield for Fixed Domes           |
|   |   |    | GD-BR-AWJ02<br>Wall Mount Bracket and Junction Box |
|   | GD-CI-AP4617W   |    | GD-BR-AJX07<br>Junction Box                        |
|  | GD-CI-AP2627V<br>GD-CI-AP4637V<br>GD-CI-AT8637V                                   |  | GD-BR-AMF06<br>Flush Mount Adapter                 |
|   |   |  | GD-BR-AMP10<br>Pendant Mount Bracket               |
|   |   |  | GD-BR-AMW01<br>Wall Mount Bracket                  |

|   |  |   |  |
|---|--|---|--|
|    | GD-CI-AT2637V<br>GD-CI-AT2637VH<br>GD-CI-AT4637V<br>GD-CI-AT4637VH |    | GD-BR-AMF06<br>Flush Mount Adapter                 |
|   |  |    | GD-BR-AMP10<br>Pendant Mount Bracket               |
|   |  |    | GD-BR-AMW01<br>Wall Mount Bracket                  |
|    | GD-CI-AT3637V  |    | GD-BR-AMP02<br>Pendant Mount Bracket (Long)        |
|   |  |    | GD-BR-AMP03<br>Pendant Mount Bracket (Medium long) |
|   |  |    | GD-BR-AMP05<br>Pendant Mount Bracket (short)       |
|   |  |    | GD-BR-AMP11<br>Pendant Mount Bracket               |
|   |  |    | GD-BR-AMW07<br>Wall Mount Bracket                  |
|    | GD-CI-AP5617F  |    | GD-BR-AMF03<br>Angle Mount Adapter                 |
|   |  |    | GD-BR-AMP12<br>Pendant Mount Bracket               |
|   |  |    | GD-BR-AMW06<br>Wall Mount Bracket                  |
|   | GD-CI-AT12617F<br>GD-CI-BT12617F                                   |   | GD-BR-AJX08<br>Junction Box                        |
|   |  |  | GD-BR-AMW19<br>Wall Mount Bracket                  |
|  | GD-CI-CC2616T<br>GD-CI-CC4617T<br>GD-CI-DC2616T<br>GD-CI-DC4617T   |  | GD-BR-AJX05<br>Junction Box                        |

|   |   |   |  |
|---|---|---|--|
|    | GD-CI-AP4617T<br>GD-CI-BC2626T<br>GD-CI-BC4627T<br>GD-CI-BC4637T  |    | GD-BR-AJX04<br>Junction Box                                      |
|   |   |    | GD-BR-AMC03<br>Corner Mount Bracket                              |
|   |   |    | GD-BR-AML01<br>Pole Mount Bracket                                |
|    | GD-CI-AP2627T<br>GD-CI-AP4637T<br>GD-CI-AT12626T<br>GD-CI-AT2637T<br>GD-CI-AT2637TH<br>GD-CI-AT3637T<br>GD-CI-AT4637T<br>GD-CI-AT4637TH<br>GD-CI-AT8637T<br>GD-CI-BT4637T<br>GD-CI-CT2647T<br>GD-CI-DT2647T |    | GD-BR-AMC01<br>Corner Mount Bracket                              |
|   |   |    | GD-BR-AML03<br>Pole Mount Bracket                                |
|    | GD-CI-AC4637P   |    | GD-BR-AMW18<br>Wall Mount Bracket                                |
|    | GD-CI-AP2647P   |    | GD-BR-AJX02<br>Junction Box                                      |
|   |   |    | GD-BR-AMF02<br>Flush Mount Adapter                               |
|   |   |    | GD-BR-AMP02<br>Pendant Mount Bracket (Long)                      |
|   |   |   | GD-BR-AMP03<br>Pendant Mount Bracket (Medium long)               |
|   |   |  | GD-BR-AMP05<br>Pendant Mount Bracket (short)                     |
|   |   |  | GD-BR-AMW11<br>Wall Mount Bracket                                |
|  | GD-CI-AP2747P<br>GD-CI-AP4746P<br>GD-CI-AT4747P<br>GD-CI-AT8746P<br>GD-CI-BP2747P<br>GD-CI-AP2247P  |  | GD-BR-AWJ03<br>Wall Mount Bracket and Junction Box for PTZ Domes |
|   |   |  | GD-BR-AMC04<br>Corner Mount Bracket Junction Box for PTZ Domes   |

|   |   |   |  |
|---|---|---|--|
|    | GD-CT-AC2805B                                   |    | GD-BR-AWA03<br>Box Camera Wall Mount Bracket       |
|    | GD-CT-AC2113E<br>GD-CT-AC5813E                  |    | GD-BR-AJX05<br>Junction Box                        |
|   |   |    | GD-BR-AMW14<br>Wall Mount Bracket                  |
|   | GD-CT-AC2116E<br>GD-CT-AP2117E<br>GD-CT-AP8117E |    | GD-BR-AJX04<br>Junction Box                        |
|   |   |  | GD-BR-AMW14<br>Wall Mount Bracket                  |
|  | GD-CT-AC2126V                                   |  | GD-BR-AJX06<br>Junction Box inclined               |
|   |   |  | GD-BR-AMF04<br>Flush Mount Adapter                 |
|   |   |  | GD-BR-AMP15<br>Pendant Mount Bracket               |
|   |   |  | GD-BR-AMW16<br>Wall Mount Bracket                  |
|   |   |  | GD-BR-AWJ06<br>Wall Mount Bracket and Junction Box |



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 Domes



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 and Junction Box



GD-CT-BP2837V

- GD-BR-AJX06  
Junction Box inclined
- GD-BR-AMF04  
Flush Mount Adapter
- GD-BR-AMP15  
Pendant Mount Bracket
- GD-BR-AMW16  
Wall Mount Bracket
- GD-BR-AWJ06  
Wall Mount Bracket and Junction Box



GD-CT-AC2116T  
GD-CT-AC5816T

- GD-BR-AJX05  
Junction Box

# GRUNDIG



GD-CT-AC2126T  
GD-CT-AC5833T  
GD-CT-AP2837T  
GD-CT-AP5837T  
GD-CT-AP8837T  
GD-CT-BP2837T

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

## RESOLUTION 5 MEGAPIXELS VERSUS 2 MEGAPIXELS



GD-LD-AC2812DC-IR    GD-LD-AC0550DC-IR

|                         | Essential                         | Essential                         |
|-------------------------|-----------------------------------|-----------------------------------|
| Iris F-Number           | F= 1.4 ~ 360                      | F= 1.4 ~ 360                      |
| Lens Drive Type         | Auto Iris [DC]                    | Auto Iris [DC]                    |
| Lens Mount              | CS mount                          | CS mount                          |
| Material                | Aluminum die-casting              | Aluminum die-casting              |
| Max. Image Format       | 1/2,7"                            | 1/2,7"                            |
| Minimum Object Distance | 0.5 m                             | 0.5 m                             |
| Dimensions              | Ø 44 × 80.8 mm (Ø 1.7 × 3.2 inch) | Ø 44 × 80.8 mm (Ø 1.7 × 3.2 inch) |
| Lens Focal Length       | 2.8 ~ 12 mm                       | 5 ~ 50 mm                         |
| Operating Temperature   | -20 °C ~ +70 °C                   | -20 °C ~ +70 °C                   |
| Weight                  | 150 g (0.33 lb)                   | 150 g (0.33 lb)                   |



GD-KB-AP0110M

|                         | Professional  |
|-------------------------|---|
| Baud Rate               | 1, 200 ~ 19, 200bps   |
| Control                 | Up to 99 DVRs   |
| DVR Control             | RW, Stop, Play, FF, Rec, PTZ, Menu, Search, Backup, Monitors  |
| Humidity                | 20 ~ 70%RH  |
| LCD Panel size          | 2x16 Gray Graphic LCD   |
| Lens Control            | Iris (Close, Open) , Focus (Near, Far) , Zoom (Tele, Wide)  |
| Multi protocol (camera) | Pelco-D, Pelco-P, Panasonic, Samsung, DM, SonyD70, VCL, MIKAMI, CBC, B01, B02, SonyD70_R, EZ, VC, LILIN |
| Pan/Tilt Control        | Pan (Left, Right) , Tilt (Up, Down)   |
| PTZ Control             | Auto PAN, Preset, Sequence and Cruise Function Support  |
| Serial Protocol         | Grundig proprietary   |
| Storage Temperature     | -40°C ~ +70°C   |
| Dimensions              | 299 x 94 x 188.5 mm (11.77 x 3.7 x 7.42 Inch)   |
| Operating Temperature   | -10 °C ~ +50 °C (+14°F ~ + 122°F)   |
| Serial Interface(s)     | 1x RS-232, 1x RS-485  |
| Suitable for            | GD-CT-AP2247P, GD-RT-AT5016N, GD-RN-AT8864N, GD-RN-AT819128N  |
| Supply Voltage          | 12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included   |
| Weight                  | 2450 g (5.40lb)   |



