

# Product Overview 2026 / 2027

## *Video Security*

SMART Product Line

**GRUNDIG**



**INTEGRAL**<sup>®</sup>  
Grup  
Authorized Distributor

# THE SMART PRODUCT LINE FROM GRUNDIG SECURITY: WHAT'S INSIDE?

Reliable hardware is just the starting point. The SMART product line adds a comprehensive range of AI-powered image analysis functions to your video security system – and the range of functionality keeps growing. Facial recognition identifies individuals, licence plate recognition (LPR) captures vehicles, and object classification reliably distinguishes between people, vehicles and other objects – significantly reducing false alarms triggered by irrelevant movement.

SMART cameras can count people and determine queue lengths at checkout points or entrances, helping you make the best possible use of your resources. They alert you when unauthorised people cross pre-defined lines or enter restricted areas, and trigger an alarm when objects are left unattended. More recent additions include fall detection for immediate response to people in distress, dynamic face masking for privacy-compliant live monitoring and playback, and multi-target type detection for more precise classification of complex scenes.

The portfolio around the SMART line has grown just as much: software, monitors, apps, network accessories, PCs and servers, plus a wide range of mounts and accessories, complete the picture and turn individual products into a fully integrated system.

These are just a few examples from a wide range of possibilities offered by the exceptionally flexible and continuously evolving SMART line products from GRUNDIG Security.

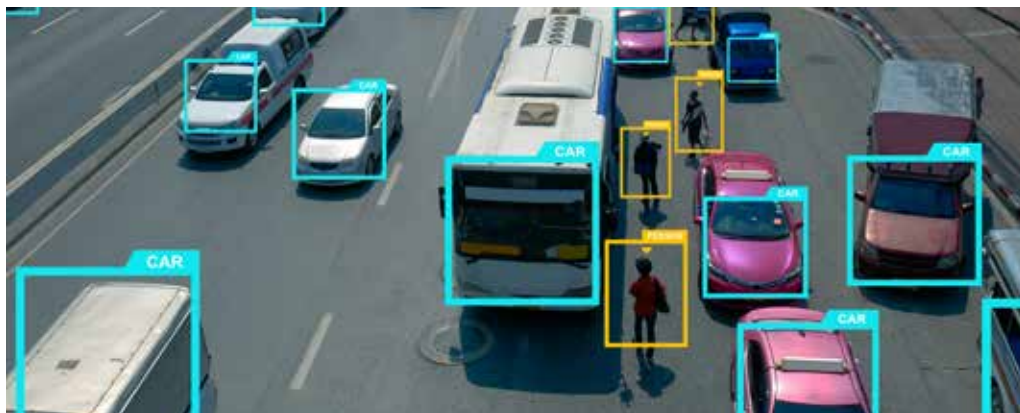




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## Classify persons & vehicles



The GRUNDIG Security SMART Line cameras allow for clear classification of people and vehicles. This enables users, e.g. control centre operators, to define alarm events and responses even more precisely. The bidirectional audio function also allows direct communication with people on site.

## Identify licence plates



The licence plate recognition function enables reliable and automated access control, for example on a company's premises. The legitimisation of the respective vehicle is regulated via black and white lists.

## Identify faces



As soon as a face is recognised, alarm information, including attributes such as gender and age, is reported. The data is compared with the database: If the face is not stored in the database, it is recognised as "unknown". Wearing a face mask can also be defined as a recognition attribute.

## Enter area



The “enter area” detection function allows the precise definition of areas. As soon as someone enters the defined area, an alarm message is triggered. The moving object is classified as a person, motorised or non-motorised vehicle. Four different customisable rules are available for the alarm response.

## Detect left/removed objects



The “left/removed objects” detection function offers two usage options: objects located in a predefined area can be quickly identified. The function can also be used to detect the removal of any objects in this area.

## Manage queues



An alarm will be triggered as soon as a queue reaches a certain length. Alternatively, this function can be used to trigger an event by exceeding a certain dwell time.

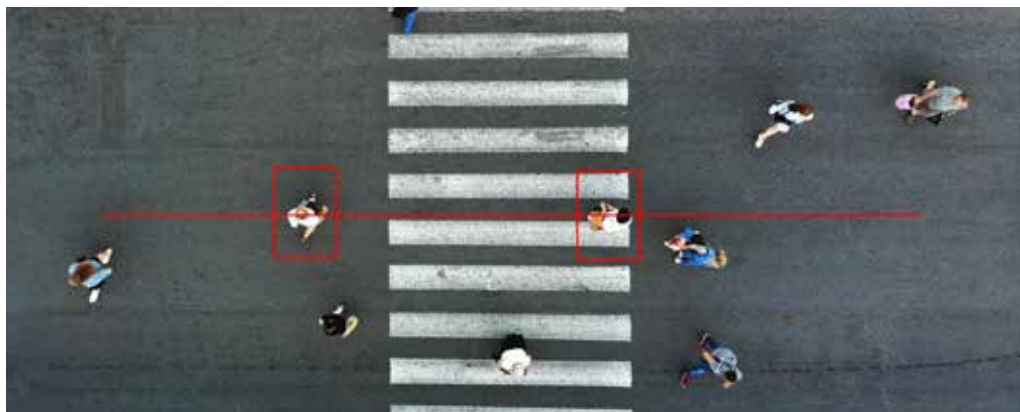
## Use Heat Map



The heat map function facilitates the identification of areas where people prefer to stay or which are less frequented.



## Cross lines



If "Line crossing" is activated, crossing a previously defined line triggers an alarm message. The corresponding object is classified as a person, motorised or non-motorised vehicle. Four different customisable rules are available for the alarm response.

## Analyse crowds



An alarm is triggered as soon as the set number of people in a predefined area is exceeded. An acoustic message can also be emitted.

## Count people/objects



The "people/object counting" analysis function reliably counts people, moving objects as well as motorised or non-motorised vehicles, also in two different directions. By means of powerful reports, the collected data can be evaluated for further use.

## Detect unusual noises



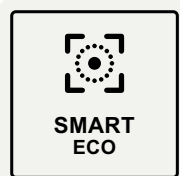
This audio analysis function detects unusual noises such as barking dogs, baby crying and gunshots, thereby triggering an alarm. The sensitivity of this function can be adjusted infinitely.

**GU-CI-AC4614E****GU-CI-AC4636E****GU-CI-AC4614T****GU-CI-AC4636T**

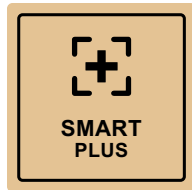
|                                 | SMART-ECO                                                                  | SMART-ECO                                                                             | SMART-ECO                                                           | SMART-ECO                                                                             |
|---------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Image Sensor                    | 1/3" progressive scan CMOS                                                 | 1/3" progressive scan CMOS                                                            | 1/3" progressive scan CMOS                                          | 1/3" progressive scan CMOS                                                            |
| Video Resolution                | 2560 x 1440 (4 MP)                                                         | 2560 x 1440 (4 MP)                                                                    | 2560 x 1440 (4 MP)                                                  | 2560 x 1440 (4 MP)                                                                    |
| Sensitivity Colour              | 0.004 Lux @ F1.6 (AGC ON)                                                  | 0.006 Lux @ F1.8 (AGC ON)                                                             | 0.004 Lux @ F1.6 (AGC ON)                                           | 0.006 Lux @ F1.8 (AGC ON)                                                             |
| Lens Focal Length               | 2.8 mm                                                                     | 2.8 ~ 12 mm motorized, autofocus                                                      | 2.8 mm                                                              | 2.8 ~ 12 mm motorized, autofocus                                                      |
| Wide Dynamic Range              | Digital WDR                                                                |                                                                                       |                                                                     |                                                                                       |
| Image Enhancement               | BLC, 3D DNR, HLC                                                           |                                                                                       |                                                                     |                                                                                       |
| Max. IR Distance                | Up to 25 m                                                                 | Up to 45 m                                                                            | Up to 25 m                                                          | Up to 45 m                                                                            |
| Video Compression               | H.264, H.265                                                               |                                                                                       |                                                                     |                                                                                       |
| SD Memory                       | Micro SD card slot for SD cards up to 512 GB, NAS (supports NFS, SMB/CIFS) |                                                                                       |                                                                     |                                                                                       |
| Alarm Input/Output              |                                                                            | 1 input, 1 output (up to 12 VDC, 30 mA)                                               |                                                                     | 1 input, 1 output (up to 12 VDC, 30 mA)                                               |
| Audio Input/Output              | Built-in microphone                                                        | 1-ch audio input and 1-ch audio output                                                | Built-in microphone                                                 | 1-ch audio input and 1-ch audio output                                                |
| Audio Detection                 | Sudden sound increase and decrease                                         |                                                                                       |                                                                     |                                                                                       |
| Intelligent Analytics Functions | Detection of Motion, Intrusion, Line Crossing, Region Entrance/Exit        | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Region Entrance/Exit | Detection of Motion, Intrusion, Line Crossing, Region Entrance/Exit | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Region Entrance/Exit |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                           |                                                                                       |                                                                     |                                                                                       |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                      |                                                                                       |                                                                     |                                                                                       |
| Power Consumption               | Max. 5.5 W                                                                 | Max. 8 W                                                                              | Max. 5.5 W                                                          | Max. 8 W                                                                              |





**GU-RN-AC5104N****GU-RN-AC5108N****GU-RN-AC5116N**

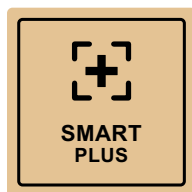
|                       | SMART-ECO                                                                                                                                                                               | SMART-ECO                 | SMART-ECO                                  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------|
| IP Inputs             | 4 channels                                                                                                                                                                              | 8 channels                | 16 channels                                |
| Recording Bandwidth   | max. 50 Mbps                                                                                                                                                                            | max. 76 Mbps              | 112 Mbps                                   |
| Outgoing Bandwidth    | max. 48 Mbps                                                                                                                                                                            | max. 32 Mbps              | 112 Mbps                                   |
| Recording Resolution  | 8 MP, 5 MP, 3 MP, 1080p, 960p, 720p                                                                                                                                                     |                           | 12 MP, 8 MP, 5 MP, 3 MP, 1080p, 960p, 720p |
| Video Compression     | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                                    |                           |                                            |
| Recording Mode        | Continuous, Event Alarm, Motion, Schedule                                                                                                                                               |                           |                                            |
| Search Mode           | Date, Time, Event Alarm, Motion, Search Backup                                                                                                                                          |                           |                                            |
| SMART Search Function | Search for people, motorized vehicles, non-motorized vehicles, intrusion and line crossing, thumbnails, tags, faces and characteristics, attendance, visit frequency and license plates |                           |                                            |
| External Backup       | USB HDD, USB Memory, Network                                                                                                                                                            |                           |                                            |
| HDMI Output           | 4K (3840 x 2160), 2K (2560 x 1440), 1920 x 1200, 1920 x 1080, 1600 x 1200, 1440 x 900, 1280 x 1024, 1280 x 768, 1280 x 720, 1024 x 768                                                  |                           |                                            |
| Harddisk bay          | 1 x SATA II                                                                                                                                                                             |                           |                                            |
| Max. Storage Capacity | Up to 10 TB capacity for each HDD                                                                                                                                                       |                           |                                            |
| Audio Input/Output    | 1-ch RCA output                                                                                                                                                                         |                           | 1-ch audio input and 1-ch audio output     |
| Alarm Input/Output    | -                                                                                                                                                                                       |                           | 8 inputs, 1 output                         |
| Supply Voltage        | 12 VDC ±10%                                                                                                                                                                             |                           |                                            |
| Power Consumption     | ≤ 3.5 W without harddisks                                                                                                                                                               | ≤ 3.5 W without harddisks | ≤ 2.6 W without harddisks                  |

**GU-CI-AC5612M****GU-CI-AC5617E****GU-CI-AC5617EB****GU-CI-AC5637E**

|                                 | SMART-PLUS                                                                                                                                                               | SMART-PLUS                                                                        | SMART-PLUS                   | SMART-PLUS                       |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------|----------------------------------|
| Image Sensor                    | 1/2.7" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS                                                      | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS     |
| Video Resolution                | 2880 x 1620 (5 MP)                                                                                                                                                       | 2880 x 1620 (5 MP)                                                                | 2880 x 1620 (5 MP)           | 2880 x 1620 (5 MP)               |
| Sensitivity Colour              | 0.004 Lux @ F1.6 (AGC ON)                                                                                                                                                | 0.004 Lux @ F1.6 (AGC ON)                                                         | 0.004 Lux @ F1.6 (AGC ON)    | 0.004 Lux @ F1.6 (AGC ON)        |
| Lens Focal Length               | 2 mm                                                                                                                                                                     | 2.8 mm                                                                            | 2.8 mm                       | 2.8 ~ 12 mm motorized, autofocus |
| Wide Dynamic Range              | 120 dB                                                                                                                                                                   |                                                                                   |                              |                                  |
| Image Enhancement               | BLC, 3D DNR, HLC                                                                                                                                                         |                                                                                   |                              |                                  |
| Max. IR Distance                | -                                                                                                                                                                        | Up to 30 m                                                                        |                              | Up to 45 m                       |
| Video Compression               | H.264, H.265, MJPEG                                                                                                                                                      | H.264, H.264+, H.265, H.265+ , MJPEG                                              |                              |                                  |
| SD Memory                       | -                                                                                                                                                                        | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS) |                              |                                  |
| Audio Input/Output              | 1-ch audio input, 1-ch audio output                                                                                                                                      | Built-in microphone                                                               |                              | 1-ch input and 1-ch output       |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                        |                                                                                   |                              |                                  |
| License plate Recognition       | If SMART recorder is connected                                                                                                                                           | If SD-card is applied or SMART recorder is connected                              |                              |                                  |
| Intelligent Analytics Functions | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                                                                                   |                              |                                  |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                         |                                                                                   |                              |                                  |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                                                                                                                    |                                                                                   |                              |                                  |
| Power Consumption               | Max. 3.2 W                                                                                                                                                               | Max. 5.5 W                                                                        |                              | Max. 9.5 W                       |

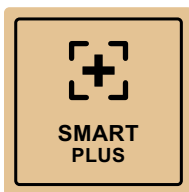




**GU-CI-AC5617V****GU-CI-AC5617VB****GU-CI-BC5617V****GU-CI-AC5617W****GU-CI-AC5637V****GU-CI-AC5637VB**

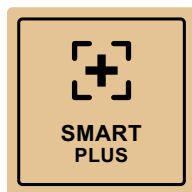
|                                 | SMART-PLUS                                                                                                                                                               | SMART-PLUS                    | SMART-PLUS                   | SMART-PLUS                   | SMART-PLUS                       | SMART-PLUS                       |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|
| Image Sensor                    | 1/2.7" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS  | 1/2.8" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS     | 1/2.7" progressive scan CMOS     |
| Video Resolution                | 2880 x 1620 (5 MP)                                                                                                                                                       | 2880 x 1620 (5 MP)            | 2880 x 1620 (5 MP)           | 2880 x 1620 (5 MP)           | 2880 x 1620 (5 MP)               | 2880 x 1620 (5 MP)               |
| Sensitivity Colour              | 0.004 Lux @ F1.6 (AGC ON)                                                                                                                                                | 0.004 Lux @ F1.6 (AGC ON)     | 0.004 Lux @ F1.6 (AGC ON)    | 0.004 Lux @ F1.6 (AGC ON)    | 0.004 Lux @ F1.6 (AGC ON)        | 0.004 Lux @ F1.6 (AGC ON)        |
| Lens Focal Length               | 2.8 mm                                                                                                                                                                   | 2.8 mm                        | 2.8 mm                       | 2.8 mm                       | 2.8 ~ 12 mm motorized, autofocus | 2.8 ~ 12 mm motorized, autofocus |
| Wide Dynamic Range              | 120 dB                                                                                                                                                                   |                               |                              |                              |                                  |                                  |
| Image Enhancement               | BLC, 3D DNR, HLC                                                                                                                                                         |                               |                              |                              |                                  |                                  |
| Max. IR Distance                | Up to 20 m                                                                                                                                                               |                               |                              |                              | Up to 30 m                       |                                  |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                     |                               |                              |                              |                                  |                                  |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                        |                               |                              |                              |                                  |                                  |
| Alarm Input/Output              | -                                                                                                                                                                        | 1 alarm input, 1 alarm output |                              | -                            |                                  |                                  |
| Audio Input/Output              | Built-in microphone                                                                                                                                                      |                               | 1-ch input and 1-ch output   | Built-in microphone          | 1-ch input and 1-ch output       |                                  |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                        |                               |                              |                              |                                  |                                  |
| License plate Recognition       | If SD-card is applied or SMART recorder is connected                                                                                                                     |                               |                              |                              |                                  |                                  |
| Intelligent Analytics Functions | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                               |                              |                              |                                  |                                  |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                         |                               |                              |                              |                                  |                                  |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                                                                                                                    |                               |                              |                              |                                  |                                  |
| Power Consumption               | Max. 5.5 W                                                                                                                                                               |                               | Max. 5.5 W                   | Max. 4 W                     | Max. 7 W                         |                                  |



**GU-CI-AC5617T****GU-CI-AC5617TB****GU-CI-AC5637T****GU-CI-BC5637T**

|                                 | SMART-PLUS                                                                                                                                                               | SMART-PLUS                   | SMART-PLUS                       | SMART-PLUS                       |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------|----------------------------------|
| Image Sensor                    | 1/2.7" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS     | 1/2.7" progressive scan CMOS     |
| Video Resolution                | 2880 x 1620 (5 MP)                                                                                                                                                       | 2880 x 1620 (5 MP)           | 2880 x 1620 (5 MP)               | 2880 × 1620 (5 MP)               |
| Sensitivity Colour              | 0.004 Lux @ F1.6 (AGC ON)                                                                                                                                                | 0.004 Lux @ F1.6 (AGC ON)    | 0.004 Lux @ F1.6 (AGC ON)        | 0.004 Lux @ F1.6 (AGC ON)        |
| Lens Focal Length               | 3.6 mm                                                                                                                                                                   | 3.6 mm                       | 2.8 ~ 12 mm motorized, autofocus | 2.8 ~ 12 mm motorized, autofocus |
| Wide Dynamic Range              | 120 dB                                                                                                                                                                   |                              |                                  |                                  |
| Image Enhancement               | BLC, 3D DNR, HLC                                                                                                                                                         |                              |                                  | BLC, 3D DNR, Defog, HLC          |
| Max. IR Distance                | Up to 30 m                                                                                                                                                               |                              | Up to 50 m                       |                                  |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                     |                              |                                  |                                  |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                        |                              |                                  |                                  |
| Alarm Input/Output              | -                                                                                                                                                                        |                              |                                  | 1 input, 1 output                |
| Audio Input/Output              | Built-in microphone                                                                                                                                                      |                              | 1-ch input and 1-ch output       |                                  |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                        |                              |                                  |                                  |
| License plate Recognition       | If SD-card is applied or SMART recorder is connected                                                                                                                     |                              |                                  |                                  |
| Intelligent Analytics Functions | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                              |                                  |                                  |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                         |                              |                                  | -40 °C ~ 60 °C (-40 °F ~ 140 °F) |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                                                                                                                    |                              |                                  |                                  |
| Power Consumption               | Max. 5.5 W                                                                                                                                                               |                              | Max. 9.5 W                       | Max. 9.5 W                       |

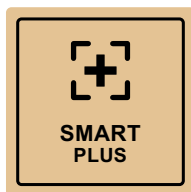


**GU-CI-AP4634T****GU-CI-BP5634T****GU-CI-AP8634T****GU-CI-BP8634T**

|                                 | SMART-PLUS                                                                                                                                                               | SMART-PLUS                     | SMART-PLUS                                                           | SMART-PLUS                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------|-----------------------------------------|
| Image Sensor                    | 1/1.8" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS   | 1/2.7" progressive scan CMOS                                         | 1/2.7" progressive scan CMOS            |
| Video Resolution                | 2560 x 1440 (4 MP)                                                                                                                                                       | 2880 x 1620 (5 MP)             | 3840 x 2160 (8 MP)                                                   | 3840 x 2160 (8 MP)                      |
| Sensitivity Colour              | 0.0005 Lux @ F1.0 (AGC ON)                                                                                                                                               | 0.004 Lux @ F1.6 (AGC ON)      | 0,0008 Lux @ F1.7 (AGC ON)                                           | 0,0008 Lux @ F1.7 (AGC ON)              |
| Lens Focal Length               | 2.8 ~ 12 mm motorized, autofocus                                                                                                                                         | 5 ~ 50 mm motorized, autofocus | 2,8 ~ 12 mm, motorized, autofocus, P-IRIS                            | 8 ~ 32 mm, motorized, autofocus, P-IRIS |
| Wide Dynamic Range              | 120 dB                                                                                                                                                                   | 120 dB                         | 120 dB                                                               | 120 dB                                  |
| Image Enhancement               | BLC, 3D DNR, HLC, Defog                                                                                                                                                  | BLC, 3D DNR, HLC               | BLC, 3D DNR, HLC, DIS                                                |                                         |
| Max. IR Distance                | Up to 50 m                                                                                                                                                               | Up to 80 m                     | Up to 50 m                                                           | Up to 100 m                             |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                     |                                |                                                                      |                                         |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                        |                                |                                                                      |                                         |
| Alarm Input/Output              | 1 input, 1 output                                                                                                                                                        |                                | 2 inputs, 2 outputs                                                  |                                         |
| Audio Input/Output              | 1 input: Line/microphone input and built-in microphone, 1 output: Line output and built-in speaker                                                                       |                                |                                                                      |                                         |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                        |                                |                                                                      |                                         |
| License plate Recognition       | If SD-card is applied or SMART recorder is connected                                                                                                                     |                                | If SD-card is applied or SMART recorder is connected, up to 120 km/h |                                         |
| Intelligent Analytics Functions | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                                |                                                                      |                                         |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                         |                                |                                                                      |                                         |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                                                                                                                    |                                |                                                                      |                                         |
| Power Consumption               | Max. 9.5 W                                                                                                                                                               |                                | Max. 13.5 W                                                          |                                         |

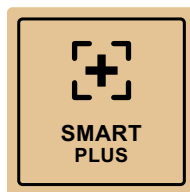




**GU-CI-AP12616F****GU-CI-AP4634V****GU-CI-AC5647P****GU-CI-AP5647P****GU-CI-AP8744P**

|                                 | SMART-PLUS                                                                        | SMART-PLUS                                                                                                                                                               | SMART-PLUS                       | SMART-PLUS                                           | SMART-PLUS                                                                                            |
|---------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Image Sensor                    | 1/2.3" progressive scan CMOS                                                      | 1/1.8" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS     | 1/2.7" progressive scan CMOS                         | 1/1.8" progressive scan CMOS                                                                          |
| Video Resolution                | 4000 × 3000 (12 MP)                                                               | 2560 x 1440 (4 MP)                                                                                                                                                       | 2592 x 1944 (5 MP)               | 2592 x 1944 (5 MP)                                   | 3840 x 2160 (8 MP)                                                                                    |
| Sensitivity Colour              | 0.01 Lux @ F1.6 (AGC ON)                                                          | 0,001 Lux @ F1.6 (AGC ON)                                                                                                                                                | 0.004 Lux @ F1.6 (AGC ON)        | 0.003 Lux @ F1.6 (AGC ON)                            | 0,0005 Lux @ F1.6 (AGC ON)                                                                            |
| Lens Focal Length               | 1.6 mm                                                                            | 2,8~12 mm motorized, autofocus                                                                                                                                           | 5 ~ 125 mm motorized, autofocus  | 4.3 ~ 142 mm motorized, autofocus                    | 5,5 ~ 202 mm motorized, autofocus                                                                     |
| Wide Dynamic Range              | Digital WDR                                                                       | 120 dB                                                                                                                                                                   |                                  |                                                      |                                                                                                       |
| Image Enhancement               | BLC, 3D DNR, HLC                                                                  | BLC, 3D DNR, HLC, Defog                                                                                                                                                  | BLC, 3D DNR, HLC                 |                                                      | BLC, 3D DNR, HLC, DIS                                                                                 |
| Max. IR Distance                | Up to 10 m                                                                        | Up to 20 m                                                                                                                                                               | Up to 100 m                      | Up to 150 m                                          | Up to 200 m                                                                                           |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                              |                                                                                                                                                                          |                                  |                                                      |                                                                                                       |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS) |                                                                                                                                                                          |                                  |                                                      |                                                                                                       |
| Alarm Input/Output              |                                                                                   |                                                                                                                                                                          | 1 alarm input, 1 alarm output    |                                                      |                                                                                                       |
| Audio Input/Output              | Built-in microphone & built-in speaker                                            | 1-ch input and 1-ch output                                                                                                                                               |                                  |                                                      | 1 input: Line/microphone input and built-in microphone,<br>1 output: Line output and built-in speaker |
| Audio Detection                 | Sudden sound increase and decrease                                                | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                        |                                  |                                                      |                                                                                                       |
| License Plate Recognition       | -                                                                                 | If SD-card is applied or SMART recorder is connected                                                                                                                     | -                                | If SD-card is applied or SMART recorder is connected |                                                                                                       |
| Intelligent Analytics Functions | Motion detection                                                                  | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                                  |                                                      |                                                                                                       |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                  | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                                                                                                         | -30 °C ~ 60 °C (-22 °F ~ 140 °F) | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                     | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                                      |
| Supply Voltage                  | 12 VDC, PoE (IEEE 802.3af)                                                        |                                                                                                                                                                          | 12 VDC, PoE (IEEE 802.3at)       |                                                      | 36 V DC, 24 V AC, PoE (IEEE 802.3bt)                                                                  |
| Power Consumption               | Max. 9.5 W                                                                        | Max. 13 W                                                                                                                                                                | Max. 25 W                        | Max. 25 W                                            | Max. 45 W                                                                                             |



**GU-CI-AP8616Q****GU-CI-AP20527Q****GU-CI-AP32637Q**

|                                 | SMART-PLUS                                                                                                                                                               | SMART-PLUS                             | SMART-PLUS                   |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| Image Sensor                    | 1/2.7" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS           | 1/1.8" progressive scan CMOS |
| Video Resolution                | 5120 x 1440 (8 MP)                                                                                                                                                       | 4 x 2880 x 1620 (4 x 5 MP)             | 4 x 3840 x 2160 (4 x 8 MP)   |
| Sensitivity Colour              | 0.001 Lux @ F1.6 (AGC ON)                                                                                                                                                | 0.006 Lux @ F1.2 (AGC ON)              |                              |
| Lens Focal Length               | 2 x 2.8 mm                                                                                                                                                               | 4 x 2.8 ~ 12 mm motorized, autofocus   |                              |
| Wide Dynamic Range              | Digital WDR                                                                                                                                                              | 120 dB                                 |                              |
| Image Enhancement               | BLC, 3D DNR, HLC                                                                                                                                                         | BLC, 3D DNR, Defog, HLC                |                              |
| Max. IR Distance                | Up to 30 m                                                                                                                                                               |                                        |                              |
| Video Compression               | H.264, H.264+, H.265, H.265+, MJPEG                                                                                                                                      |                                        |                              |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                        |                                        |                              |
| Alarm Input/Output              | -                                                                                                                                                                        | 2 alarm inputs, 2 alarm outputs        |                              |
| Audio Input/Output              | Built-in microphone & built-in speaker                                                                                                                                   | 1-ch input and 1-ch output             |                              |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                        |                                        |                              |
| License Plate Recognition       | If SD-card is applied or SMART recorder is connected                                                                                                                     |                                        |                              |
| Intelligent Analytics Functions | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                                        |                              |
| Operating Temperature           | -30 °C ~ 60 °C (-22 °F ~ 140 °F)                                                                                                                                         | -30 °C ~ 55 °C (-22 °F ~ 131 °F)       |                              |
| Supply Voltage                  | 12 VDC, PoE (IEEE 802.3af)                                                                                                                                               | 12 VDC, 24 V AC, Hi-PoE (IEEE 802.3bt) |                              |
| Power Consumption               | Max. 13.5 W                                                                                                                                                              | Max. 34 W                              | Max. 43 W                    |



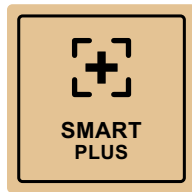
## THE SMART LINE FROM GRUNDIG SECURITY: NDAA COMPLIANT

NDAA is the abbreviation for the National Defense Authorization Act. The John S. McCain National Defense Authorization Act (NDAA) for Fiscal Year 2019 was signed into law on August 13, 2018 and effective from August 2020.

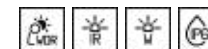
The law, specifically Section 889, prohibits federal agencies, their contractors and grant or loan recipients from procuring or using "telecommunications and video surveillance equipment or services" from specific Chinese companies as a "substantial or essential component of any system, or as critical technology as part of any system."

The SMART product line from GRUNDIG Security complies with the requirements of this law.



**GU-TI-AP4603E****GU-TI-AP4607E****GU-TI-AP4603T****GU-TI-AP4607T**

|                                 | SMART-PLUS                                                                                                                                                               | SMART-PLUS                   | SMART-PLUS                   | SMART-PLUS                   |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|
| Image Sensor                    | 1/2.7" progressive scan CMOS                                                                                                                                             | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS |
| Thermal Sensor                  | Vanadium Oxide Uncooled Focal Plane Array                                                                                                                                |                              |                              |                              |
| Resolution (Thermal)            | 256 x 192                                                                                                                                                                |                              |                              |                              |
| Viewing Angle (IR)              | 56° x 42° (HxV)                                                                                                                                                          | 25° x 18.7° (HxV)            | 56° x 42° (HxV)              | 25° x 18.7° (HxV)            |
| Image Sensor                    | 1/2.7" progressive Scan CMOS                                                                                                                                             |                              |                              |                              |
| Video Resolution                | 2592 x 1944                                                                                                                                                              |                              |                              |                              |
| Sensitivity Colour              | 0.003 Lux @ F1.6 (AGC ON)                                                                                                                                                |                              |                              |                              |
| Lens Focal Length               | 3.6 mm                                                                                                                                                                   | 8 mm                         | 3.6 mm                       | 8 mm                         |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                     |                              |                              |                              |
| Measurement option              | Support 3 temperature measurement rule types (12 points, 12 regions and 12 lines), accuracy: ± 3°C / 3%                                                                  |                              |                              |                              |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                        |                              |                              |                              |
| Alarm Input/Output              | 1 alarm input, 1 alarm output                                                                                                                                            |                              |                              |                              |
| Audio Input/Output              | 1 Input: line in or mic in & built-in microphone, 1 Output: line out & built in speaker, mono sound                                                                      |                              |                              |                              |
| Intelligent Analytics Functions | Detection of Motion, People & Vehicle, Intrusion, Line Crossing, Object Removal, Object Counting, Faces, Queue Length and/or Crowd Density Detection as well as Heat Map |                              |                              |                              |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                         |                              |                              |                              |
| Supply Voltage                  | 12 VDC, PoE (IEEE 802.3af)                                                                                                                                               |                              |                              |                              |
| Power Consumption               | Max. 9.5 W                                                                                                                                                               |                              | Max.11 W                     |                              |



## DETECTION WHERE OPTICAL CAMERAS REACH THEIR LIMITS

Thermal imaging captures temperature differences instead of visible light. That's what allows the SMART-PLUS Line thermal cameras to detect people and vehicles reliably in complete darkness, low light, or when headlights and reflections blind a standard camera.



Glare from headlights



Darkness

Low light

### Dual view: thermal and optical in one camera

Both channels can be used, streamed and recorded in parallel, including picture-in-picture display of the thermal channel within the optical full image, so operators keep full situational context day and night.

-  Perimeter protection
-  Early fire detection
-  Critical infrastructure

# 550 °C ± 3°C

Temperature measurement range ± 3°C / 3% accuracy

## Visual and sound alarm

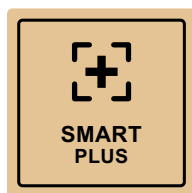
-  White or red/blue strobe light, adjustable frequency
-  Built-in speaker with pre-defined or custom voice messages
-  Acoustic warnings on VCA events or temperature violations

Together, these functions turn thermal detection into an active system for deterrence and intervention: not just recording, but response.

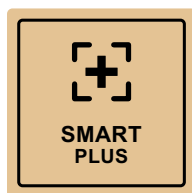
## AI analytics onboard

Object classification for people and vehicles, line crossing, intrusion, area monitoring, unattended baggage, heatmap, queue and crowd analysis, and face detection: almost every SMART Line AI function, excluding licence plate recognition.



**GU-RN-BC8104P****GU-RN-BC8108P****GU-RN-BC8116P****GU-RN-CP8216N**

|                       | SMART-PLUS                                                                                                                                                                              | SMART-PLUS                                         | SMART-PLUS                                          | SMART-PLUS                                                                                                                                                                     |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP Inputs             | 4 channels                                                                                                                                                                              | 8 channels                                         | 16 channels                                         | 16 channels                                                                                                                                                                    |
| Recording Bandwidth   | max. 76 Mbps                                                                                                                                                                            | 128 Mbps                                           | 112 Mbps                                            | 320 Mbps                                                                                                                                                                       |
| Outgoing Bandwidth    | max. 76 Mbps                                                                                                                                                                            | 128 Mbps                                           | 112 Mbps                                            | 320 Mbps                                                                                                                                                                       |
| Recording Resolution  | 12 MP, 8 MP, 5 MP, 3 MP, 1080p, 960p, 720p                                                                                                                                              |                                                    |                                                     |                                                                                                                                                                                |
| Video Compression     | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                                    |                                                    |                                                     |                                                                                                                                                                                |
| Recording Mode        | Continuous, Event Alarm, Motion, Schedule                                                                                                                                               |                                                    |                                                     |                                                                                                                                                                                |
| Search Mode           | Date, Time, Event Alarm, Motion, Search Backup                                                                                                                                          |                                                    |                                                     |                                                                                                                                                                                |
| SMART Search Function | Search for people, motorized vehicles, non-motorized vehicles, intrusion and line crossing, thumbnails, tags, faces and characteristics, attendance, visit frequency and license plates |                                                    |                                                     |                                                                                                                                                                                |
| External Backup       | USB HDD, USB Memory, Network                                                                                                                                                            |                                                    |                                                     |                                                                                                                                                                                |
| HDMI Output           | 4K (3840 × 2160), 2K (2560 × 1440), 1920 × 1080, 1600 × 1200, 1900 × 1200, 1440 × 900, 1280 × 1024, 1280 × 720, 1024 × 768                                                              |                                                    |                                                     | HDMI1: 3840 x 2160 (EDID/4K), 2560 x 1440, 1920 × 1080, 1440 x 900, 1280 x 1024, 1280 x 720, 1024 x 768<br>HDMI2: 1920 × 1080, 1440 x 900, 1280 × 1024, 1280 × 720, 1024 × 768 |
| Harddisk bay          | 1 x SATA II, 1 x eSATA                                                                                                                                                                  |                                                    | 2 x SATA II                                         | 2 x SATA III, 1 x eSATA                                                                                                                                                        |
| Max. Storage Capacity | Up to 10 TB capacity for each HDD                                                                                                                                                       |                                                    |                                                     | Up to 12 TB capacity for each HDD                                                                                                                                              |
| Audio Input/Output    | 1-ch input and 1-ch output                                                                                                                                                              |                                                    |                                                     |                                                                                                                                                                                |
| Alarm Input/Output    | 4/1                                                                                                                                                                                     | 8/1                                                | 8/1                                                 | 16/1                                                                                                                                                                           |
| Power over Ethernet   | 4 independent 10, 100 Mbps PoE Ethernet interfaces                                                                                                                                      | 8 independent 10, 100 Mbps PoE Ethernet interfaces | 16 independent 10, 100 Mbps PoE Ethernet interfaces | —                                                                                                                                                                              |
| Supply Voltage        | 48 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included                                                                                                                                   |                                                    |                                                     | 12 VDC ±10%                                                                                                                                                                    |
| Power Consumption     | ≤ 5 W without harddisk                                                                                                                                                                  | ≤ 6 W without harddisk                             | ≤ 8 W without harddisk                              | ≤ 18 W without harddisk                                                                                                                                                        |

**GU-RN-CP8232N****GU-RN-CP8864N****GU-RN-CT816256N**

|                       | SMART-PLUS                                                                                                                                                                              | SMART-PLUS                                                                                                                                                                            | SMART-PLUS                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| IP Inputs             | 32 channels                                                                                                                                                                             | 64 channels                                                                                                                                                                           | 256 channels                                           |
| Recording Bandwidth   | 320 Mbps                                                                                                                                                                                | 640 Mbps                                                                                                                                                                              | 1024 Mbps                                              |
| Outgoing Bandwidth    | 320 Mbps                                                                                                                                                                                | 640 Mbps                                                                                                                                                                              | 800 Mbps                                               |
| Recording Resolution  | 12 MP, 8 MP, 5 MP, 3 MP, 1080p, 960p, 720p                                                                                                                                              |                                                                                                                                                                                       |                                                        |
| Video Compression     | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                                    |                                                                                                                                                                                       |                                                        |
| Recording Mode        | Continuous, Event Alarm, Motion, Video Loss, Schedule                                                                                                                                   |                                                                                                                                                                                       |                                                        |
| Search Mode           | Date, Time, Event Alarm, Motion, Search Backup                                                                                                                                          |                                                                                                                                                                                       |                                                        |
| SMART Search Function | Search for people, motorized vehicles, non-motorized vehicles, intrusion and line crossing, thumbnails, tags, faces and characteristics, attendance, visit frequency and license plates |                                                                                                                                                                                       |                                                        |
| External Backup       | USB HDD, USB Memory, Network                                                                                                                                                            |                                                                                                                                                                                       |                                                        |
| HDMI Output           | HDMI1: 3840x2160 (EDID/4K), 2560 x 1440, 1920 × 1080, 1440 x 900, 1280 x 1024, 1280 x 720, 1024 x 768<br>HDMI2: 1920 × 1080, 1440 x 900, 1280 × 1024, 1280 × 720, 1024 × 768            | HDMI1, 2 & 3: 3840 x 2160 (EDID/4K), 2560 x 1440, 1920 × 1080, 1440 x 900, 1280 x 1024, 1280 x 720, 1024 x 768<br>HDMI4: 1920 × 1080, 1440 x 900, 1280 × 1024, 1280 × 720, 1024 × 768 |                                                        |
| Harddisk bay          | 4 x SATA III, 1 x eSATA                                                                                                                                                                 | 8 x SATA III, 1 x eSATA                                                                                                                                                               | 16 x SATA III, 1 x e-SATA                              |
| Max. Storage Capacity | Up to 12 TB capacity for each HDD                                                                                                                                                       | Up to 18 TB capacity for each HDD (Enterprise Class)                                                                                                                                  | Up to 18 TB capacity for each HDD, hot swappable       |
| Audio Input/Output    | 1-ch input and 1-ch output                                                                                                                                                              |                                                                                                                                                                                       |                                                        |
| Alarm Input/Output    | 16/1                                                                                                                                                                                    | 16/4                                                                                                                                                                                  |                                                        |
| Power over Ethernet   | —                                                                                                                                                                                       |                                                                                                                                                                                       |                                                        |
| Supply Voltage        | 12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included                                                                                                                                   | 100 ~ 240 VAC, 50Hz / 60Hz                                                                                                                                                            | 2 x 100 ~ 240 VAC, 50Hz / 60Hz, redundant power supply |
| Power Consumption     | ≤ 12 W without harddisk                                                                                                                                                                 | ≤ 8 W without harddisk                                                                                                                                                                |                                                        |

**GU-CI-AT8634E****GU-CI-AT4634V****GU-CI-AT8634V****GU-CI-AT4634T****GU-CI-AT8634T**

|                                 | SMART-PRO                                                                                                                                                                                                          | SMART-PRO                        | SMART-PRO                        | SMART-PRO                        | SMART-PRO                        |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Image Sensor                    | 1/1.8" progressive scan CMOS                                                                                                                                                                                       | 1/1.8" progressive scan CMOS     | 1/1.8" progressive scan CMOS     | 1/1.8" progressive scan CMOS     | 1/1.8" progressive scan CMOS     |
| Video Resolution                | 3840 x 2160 (8 MP)                                                                                                                                                                                                 | 2688 x 1520 (4 MP)               | 3840 x 2160 (8 MP)               | 2688 x 1520 (4 MP)               | 3840 x 2160 (8 MP)               |
| Sensitivity Colour              | 0.001 Lux @ F1.2 (AGC ON)                                                                                                                                                                                          | 0.0007 Lux @ F1.2 (AGC ON)       | 0,001 Lux @ F1.2 (AGC ON)        | 0.0007 Lux @ F1.2 (AGC ON)       | 0.001 Lux @ F1.2 (AGC ON)        |
| Lens Focal Length               | 2.8 ~ 12 mm motorized, autofocus                                                                                                                                                                                   | 2.8 ~ 12 mm motorized, autofocus | 2.8 ~ 12 mm motorized, autofocus | 2.8 ~ 12 mm motorized, autofocus | 2.8 ~ 12 mm motorized, autofocus |
| Col/B&W                         | Auto, IR-cut filter removable (ICR)                                                                                                                                                                                |                                  |                                  |                                  |                                  |
| Wide Dynamic Range              | 120 dB                                                                                                                                                                                                             |                                  |                                  |                                  |                                  |
| Image Enhancement               | BLC, 3D DNR, HLC, DIS, DEFOG                                                                                                                                                                                       |                                  |                                  |                                  |                                  |
| Max. IR Distance                | Up to 45 m                                                                                                                                                                                                         | Up to 30 m                       |                                  | Up to 50 m                       |                                  |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                                                               |                                  |                                  |                                  |                                  |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                                                                  |                                  |                                  |                                  |                                  |
| Alarm Input/Output              | 1 input, 1 output                                                                                                                                                                                                  |                                  |                                  |                                  |                                  |
| Audio Input/Output              | 1 input: line in or mic in & built-in microphone, 1 output: line out & built in speaker, mono sound                                                                                                                |                                  |                                  |                                  |                                  |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                                                                  |                                  |                                  |                                  |                                  |
| License plate Recognition       | If SD-card is applied or SMART recorder is connected                                                                                                                                                               |                                  |                                  |                                  |                                  |
| Intelligent Analytics Functions | Motion, fall, fire, people & vehicle, intrusion, line crossing, object removal detection, object counting, face, queue length/crowd density detection, dynamic face masking, multi-target type detection, heat map |                                  |                                  |                                  |                                  |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                                                                   |                                  |                                  |                                  |                                  |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                                                                                                                                                              |                                  |                                  |                                  |                                  |
| Power Consumption               | Max. 8.7 W                                                                                                                                                                                                         |                                  | Max. 9.5 W                       |                                  | Max. 11.5 W                      |



**GU-CI-BP4634P****GU-CI-BP8634P**

|                                 | SMART-PRO                                                                                                                                                                                                          | SMART-PRO                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Image Sensor                    | 1/1.8" progressive scan CMOS                                                                                                                                                                                       | 1/1.8" progressive scan CMOS |
| Video Resolution                | 2688 x 1520 (4 MP)                                                                                                                                                                                                 | 3840 x 2160 (8 MP)           |
| Sensitivity Colour              | 0.0007 Lux @ F1.2 (AGC ON)                                                                                                                                                                                         | 0.001 Lux @ F1.2 (AGC ON)    |
| Lens Focal Length               | 2.8 ~ 12 mm motorized, autofocus                                                                                                                                                                                   |                              |
| Col/B&W                         | Auto, IR-cut filter removable (ICR)                                                                                                                                                                                |                              |
| Wide Dynamic Range              | 120 dB                                                                                                                                                                                                             |                              |
| Image Enhancement               | BLC, 3D DNR, HLC, Defog                                                                                                                                                                                            |                              |
| Max. IR Distance                | Up to 35 m                                                                                                                                                                                                         |                              |
| Video Compression               | H.264, H.264+, H.265, H.265+ , MJPEG                                                                                                                                                                               |                              |
| SD Memory                       | Micro SD/SDHC/SDXC card slot with ANR (up to 512 GB), NAS (Support NFS, SMB/CIFS)                                                                                                                                  |                              |
| Alarm Input/Output              | 1 input, 1 output                                                                                                                                                                                                  |                              |
| Audio Input/Output              | 1 input: Line/microphone input and built-in microphone, 1 output: Line output and built-in speaker                                                                                                                 |                              |
| Audio Detection                 | Detects unusual noises: dogs barking, babies crying, gunshots, sudden sound increase and decrease                                                                                                                  |                              |
| License plate Recognition       | If SD-card is applied or SMART recorder is connected                                                                                                                                                               |                              |
| Intelligent Analytics Functions | Motion, fall, fire, people & vehicle, intrusion, line crossing, object removal detection, object counting, face, queue length/crowd density detection, dynamic face masking, multi-target type detection, heat map |                              |
| Operating Temperature           | -35 °C ~ 60 °C (-31 °F ~ 140 °F)                                                                                                                                                                                   |                              |
| Supply Voltage                  | 12 VDC, PoE (802.3af)                                                                                                                                                                                              |                              |
| Power Consumption               | Max. 13 W                                                                                                                                                                                                          |                              |



## NEW PRO LINE AI FUNCTIONS

### FALL DETECTION



### MULTI-TARGET TYPE DETECTION



### HUMAN ATTRIBUTES



### VEHICLE ATTRIBUTES



### VISUAL & SOUND ALARM



### DYNAMIC FACE MASKING



### IN-PICK SEARCH





**GD-ML-AP1031SD****GD-ML-DP2230HD****GD-ML-DP2430HD****GD-ML-BP3230HD****GD-ML-DP4340UHD**

|                         | SMART                                                 | SMART                                             | SMART                                            | SMART                                             | SMART                                         |
|-------------------------|-------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| LCD Panel size          | 25.6 cm (10.1") Diagonal<br>AM-TFT LED Backlight      | 54.6 cm (21, 5") Diagonal<br>AM-TFT LED Backlight | 59.9 cm (23.6") Diagonal<br>AM-TFT LED Backlight | 81.3 cm (32") Diagonal<br>AM-TFT LED Backlight    | 109 cm (43") Diagonal<br>AM-TFT LED Backlight |
| Pixels Total            | 1280 (H) x 800 (V)                                    | 1920 (H) x 1080 (V)                               |                                                  |                                                   | 3840 (H) x 2160 (V)                           |
| Pixel Pitch             | 0.192 mm (H) x 0.192 mm (V)                           | 0.248 mm (H) x 0.248 mm (V)                       |                                                  | 0.36375 mm (H) x 0.36375 mm (V)                   | 0.2451 mm (H) x 0.2451 mm (V)                 |
| Aspect Ratio            | 16 : 9                                                |                                                   |                                                  |                                                   |                                               |
| Video Standard          | PAL, NTSC                                             |                                                   |                                                  |                                                   |                                               |
| Video Inputs            | 1 x Composite, BNC looped,<br>1 x VGA, 1 x HDMI       | 1x HDMI, 1x VGA, 1x USB                           |                                                  | 1 x Composite, BNC looped, 1x HDMI, 1x VGA        | 3 x HDMI, 1 x Display Port                    |
| Brightness              | 350 cd/m²                                             | 300 cd/m²                                         |                                                  |                                                   | 350 cd/m²                                     |
| Contrast Ratio          | 800:1                                                 | 1000:1                                            |                                                  |                                                   |                                               |
| Number of Colours       | 262K                                                  | 16.7 million                                      |                                                  |                                                   | 1073 G                                        |
| Viewing Angle           | 160° (H) ~ 160° (V)                                   | 170° (H) ~ 160° (V)                               |                                                  | 178° (H) ~ 178° (V)                               |                                               |
| Response Time           | 12 ms                                                 | 5 ms                                              |                                                  |                                                   |                                               |
| Audio Inputs            | 1 x 3.5 mm jack (line), 1 x HDMI                      | 1-ch, RCA (2.0 Vp-p, 1kΩ)                         |                                                  |                                                   | 1-ch, RCA                                     |
| Speakers                | yes                                                   | 2 x 2 W                                           |                                                  | 2 x 2.5 W                                         |                                               |
| Vesa Mount              | 75 x 75 mm                                            |                                                   | 100 x 100 mm                                     |                                                   | 400 x 400 mm                                  |
| OSD (On Screen Display) | Yes, multi language                                   |                                                   |                                                  |                                                   |                                               |
| Accessories included    | Stand, power adapter, HDMI cable and remote control   | Power adapter and HDMI cable                      |                                                  | Stand, power cable, HDMI cable and remote control |                                               |
| Regulation              | CE, EAC, FCC, RoHS Compliant                          |                                                   |                                                  |                                                   |                                               |
| Power Consumption       | Max. 12 W                                             | Max. 21 W                                         | Max. 24 W                                        | Max. 60 W                                         | ≤ 75 W                                        |
| Supply Voltage          | 12 VDC, Power Adapter 100 ~ 240 VAC 50, 60Hz included |                                                   |                                                  | 100 ~ 240 VAC, 50/60 Hz                           |                                               |



### GD-HW-BPSV05T

|                        | SMART                                    |
|------------------------|------------------------------------------|
| CPU                    | Intel® CPU                               |
| Operating System       | Microsoft® Windows 11 Pro 64-bit         |
| Graphic Card           | Latest generation with 4 monitor outputs |
| Memory                 | 16 GB RAM                                |
| Network Interface      | 1 x RJ45 Gbit LAN                        |
| Interfaces             | 2 x USB 3.1, 2 x USB 2.0                 |
| Operating Temperature  | +5 °C ~ +40 °C (+41 °F ~ + 104 °F)       |
| Supply Voltage         | 100~240 VAC, 50/60 Hz                    |
| Accessories            | Mouse & Keyboard (included)              |
| Dimensions (W x H x D) | 490 x 198 x 425 mm                       |



### GU-KB-AP4450M

|                            | SMART                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| LCD Panel Size             | 6.5 cm (2.6") Diagonal AM-TFT LED Backlight                                                                                     |
| NVR Control                | Playback, Stop, Pause, FF, RW, Rec, Search, Backup, menu, Image Panel Management, Navigation between views, cameras and presets |
| PTZ Control                | 4-axis joystick, PTZ, focus & iris control, setting and calling presets, patterns & patrols, auto-scan, auto-pan, wiper, AUX    |
| Accessories Included       | Power Adapter                                                                                                                   |
| Network Interface          | 1 x 10, 100 Base T, TX PoE (RJ-45)                                                                                              |
| Operating Temperature      | 0 °C ~ 55 °C (32 °F ~ 131 °F)                                                                                                   |
| Supply Voltage/Consumption | 12 V DC, PoE (IEEE 802.3af), max. 4.5 W                                                                                         |
| Dimensions (W x H x D)     | 321 x 109 x 179 mm (12.7 x 4.3 x 7.1 inch)                                                                                      |



### GU-SI-AC0030H

|                           | SMART                                              |
|---------------------------|----------------------------------------------------|
| Max. Sound Pressure Level | 129 dB                                             |
| Rated Power               | DC: 8 Ω 30 W or PoE: af-8 Ω 20 W                   |
| Audio Amplifier           | Class D Amplifier                                  |
| Frequency Range (Audio)   | 380 Hz ~ 10 KHz                                    |
| Coverage Pattern          | 78°H 78°V (1 kHz, -6 dB), effective distance 200 m |
| Protection Rating         | IP66 (IEC 60529-2013)                              |
| Operating Temperature     | -30 °C ~ +70 °C (-22 °F ~ 158 °F)                  |
| Supply Voltage            | 24 VDC, PoE 802.3 af/at                            |
| Power Consumption         | Max. 35 W                                          |
| Dimensions (W x H x D)    | ∅ 246 x 292 mm (7.69" x 11.5")                     |



### GU-HW-ACSW04D

|                            | SMART                                                |
|----------------------------|------------------------------------------------------|
| Interfaces (Ports)         | 4x 10/100M PoE +   1x 10/100M                        |
| PoE Specification          | 802.3af/at (PSE)                                     |
| Switch Throughput          | 1 Gbps                                               |
| PoE Budget                 | 52 W                                                 |
| Max. Power Output per Port | 30 W max. (Individual Port)                          |
| Bit Rate                   | Uplink/Downlink Rate 100 Mbps                        |
| Supply Voltage             | 48 VDC, 100~240 VAC, 50/60 Hz Power Adapter included |
| Power Consumption          | Max. 58 W                                            |
| Dimensions (W x H x D)     | 110 x 82 x 30 mm (4.3 x 3.2 x 1.2 inch)              |



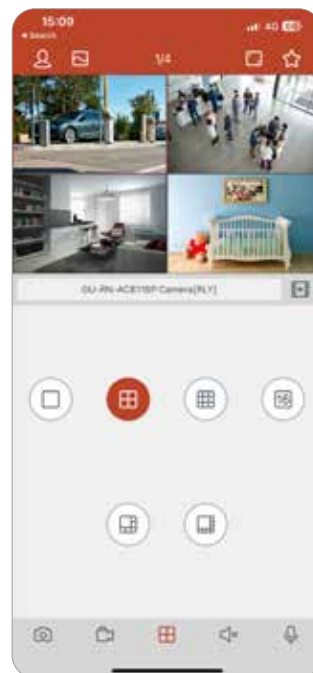
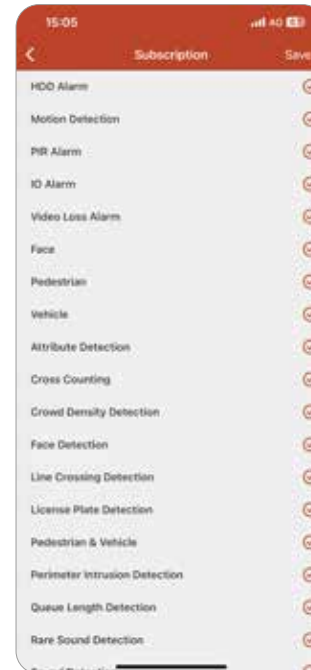
### GU-HW-ACSW08D

|                            | SMART                                                |
|----------------------------|------------------------------------------------------|
| Interfaces (Ports)         | 8x 10/100M PoE +   1x 100/1000M                      |
| PoE Specification          | 802.3af/at (PSE)                                     |
| Switch Throughput          | 3.6 Gbps                                             |
| PoE Budget                 | 65 W                                                 |
| Max. Power Output per Port | 30 W max. (Individual Port)                          |
| Bit Rate                   | Uplink/Downlink Rate 1000 Mbps                       |
| Supply Voltage             | 48 VDC, 100~240 VAC, 50/60 Hz Power Adapter included |
| Power Consumption          | Max. 72 W                                            |
| Dimensions (W x H x D)     | 173 x 82 x 30 mm (6.8 x 3.2 x 1.2 inch)              |



### GU-HW-ACSW16R

|                            | SMART                                     |
|----------------------------|-------------------------------------------|
| Interfaces (Ports)         | 16x 10/100M PoE +   2x 100/1000M          |
| PoE Specification          | 802.3af/at (PSE)                          |
| Switch Throughput          | 7.2 Gbps                                  |
| PoE Budget                 | 225 W                                     |
| Max. Power Output per Port | 30 W max. (Individual Port)               |
| Bit Rate                   | Uplink/Downlink Rate 1000 Mbps            |
| Supply Voltage             | 100~240 VAC, 50/60 Hz                     |
| Power Consumption          | Max. 400 W                                |
| Dimensions (W x H x D)     | 440 x 221 x 44 mm (17.3 x 8.7 x 1.7 inch) |



## THE SMART LINE GSVM APP: INSTALLED AND CONFIGURED IN NO TIME

The SMART Line GSVM app is a surveillance application for mobile phones and tablets.

The Mobile Software App has been designed to help small businesses effectively operate and manage security devices from anywhere and at any time.

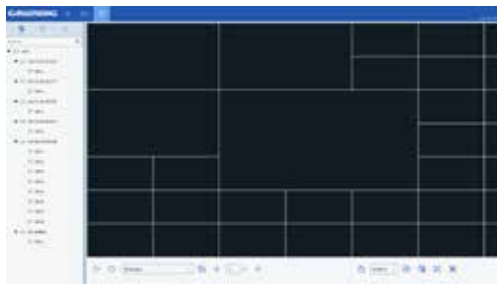
The power to view live images, play back footage, and receive notifications remotely keeps owners and operators in touch with their business, even when away.

- Real-time video preview of up to 16 channels
- Live control of PTZ Cameras
- Remote configuration of connected devices
- Display the cause of alarm triggering
- Push alarm notification
- Snapshot function
- Integration of devices via P2P cloud and IP-address



**The SMART Line GSVM App is available for iOS and Android.**

## SMART PRODUCT LINE: SOFTWARE, APPS & TOOLS



### GU-SW-VMS

SMART Line PC Software



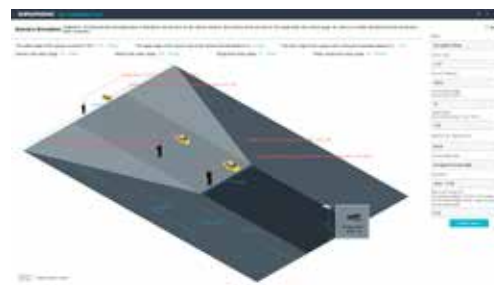
### GU-SW-IP-FINDER

SMART Line Tool for device connection, configuration and management



### GU-SW-PLAYER

SMART Line Video Player



### GU-SW-INST-TOOL

SMART Line Tool for camera setup

## DID YOU KNOW?

For real-time video preview and remote parameterization of the connected cameras and recorders, there is also a mobile GSVM app available for iOS and Android, in addition to the desktop application, naturally also available for free. For more details, see page 9.

GSVM APP  
IOS



GSVM APP  
ANDROID



## STORAGE MEDIA

### HARDDISKS



GD-HW-HDD-4TB

3,5" HDD 4TB – surveillance class

GD-HW-HDD-8TB

3,5" HDD 8TB – surveillance class

GD-HW-HDD-10TB

3,5" HDD 10TB – surveillance class

GD-HW-HDD-12TB

3,5" HDD 12TB – surveillance class

GD-HW-HDD-14TB

3,5" HDD 14TB – surveillance class

Other harddisk capacities upon request!

### SD CARDS



GD-HW-SD-128GB

Surveillance class Micro SD card 128GB

GD-HW-SD-256GB

Surveillance class Micro SD card 256GB



## CUSTOM SERVER SOLUTIONS FOR DEMANDING VIDEO SECURITY PROJECTS

Not every video security installation fits a standard specification. For large scale or highly complex projects, GRUNDIG Security offers custom-built multi-channel servers, individually configured to match the exact requirements of each installation rather than drawn from a fixed catalogue range.

These servers are built around high-performance, enterprise-grade hardware and run the GRUNDIG Video Management System powered by C-WERK®. Configuration options include storage capacity, RAID levels, redundant power supplies, hot-swap capability and GPU support for AI-based video analytics, allowing the system to be scaled precisely to the number of channels, retention period and performance needs of the project – from mid-sized installations to large, multi-site deployments.

Typical applications range from large-scale public safety and smart/safe city projects to airports, transport hubs, logistics centres and multi-site retail or industrial environments – wherever high channel counts, long-term storage and integration with third-party systems play a central role. In these scenarios, a tailored server platform ensures the recording infrastructure keeps pace with the scale and complexity of the overall security concept.

## C-WERK®

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

The GRUNDIG VMS powered by C-WERK® is based on an end-to-end concept with a unified software solution throughout: ranging from IP camera / recorder freeware to a video management solution for extensive, complex video facilities.

### Scan the QR codes to start videos.

For more information please check <https://grundig-security.com/technology/c-werk/>



## TIME LAPSE

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





## BEHAVIOUR ANALYTICS

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

## SOME IMPORTANT FEATURES OF C-WERK® VIDEO MANAGEMENT SOLUTIONS

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



## SIMILARITY SEARCH

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



## FACE SEARCH



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

## LPR SEARCH



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

## C-WERK® Licenses

| ITEM CODE                 | DESCRIPTION                                                       |
|---------------------------|-------------------------------------------------------------------|
| <b>Camera License</b>     |                                                                   |
| <b>GD-CW-AP-CAM</b>       | C-WERK® Pro Single-Channel Camera License                         |
| <b>GD-CW-AT-CAM</b>       | C-WERK® Premium Single-Channel Camera License                     |
| <b>Extension License</b>  |                                                                   |
| <b>GD-CW-AP-MQS-ADD</b>   | C-WERK® Pro Forensic Search License                               |
| <b>Additional modules</b> |                                                                   |
| <b>GD-CW-AP-HBA-ADD</b>   | C-WERK® Pro License Human Behaviour Analytics                     |
| <b>GD-CW-AP-LPRIV-AD</b>  | C-WERK® Pro License Realtime License Plate Recognition            |
| <b>GD-CW-AP-PPE-ADD</b>   | C-WERK® Personal Protective Equipment Recognition                 |
| <b>GD-CW-AT-HBA-ADD</b>   | C-WERK® Premium License Human Behaviour Analytics                 |
| <b>GD-CW-AT-LPRIV-AD</b>  | C-WERK® Premium License Realtime License Plate Recognition        |
| <b>GD-CW-AT-PPE-ADD</b>   | C-WERK® Premium License Personal Protective Equipment Recognition |
| <b>GD-CW-AT-SS-ADD</b>    | C-WERK® Premium License Similarity Search                         |

## C-WERK®: POWERFUL. FLEXIBLE. EASY TO USE.

C-WERK® is a next-generation Video Management Software built on open standards for maximum flexibility. It scales to fit any project: unlimited video servers, cameras, workstations and mobile clients, with support for over 10,000 IP devices.

Thanks to its open API, third-party hardware integrates seamlessly, extending your system exactly where you need it. And with its intuitive interface and transparent, fair pricing, you get full functionality at every system size.

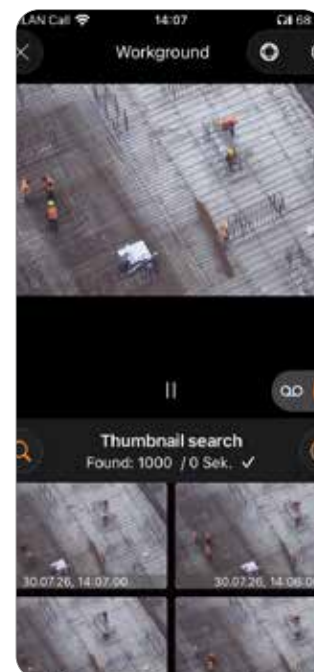
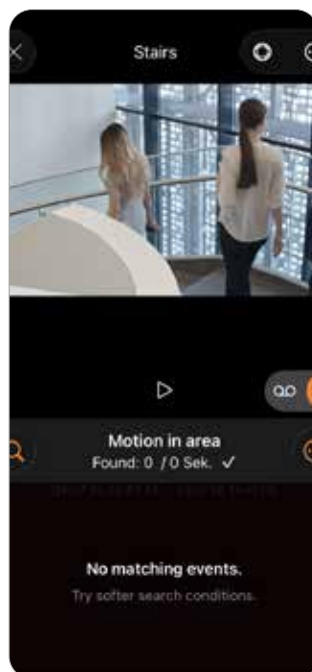
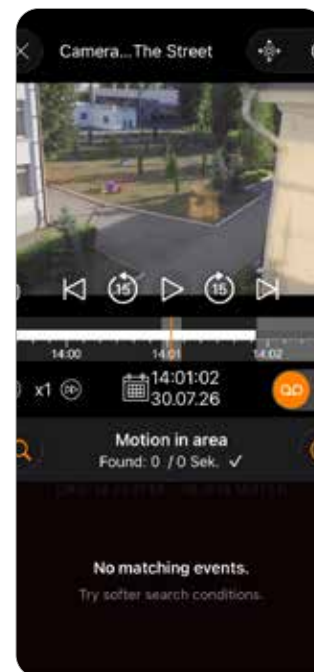
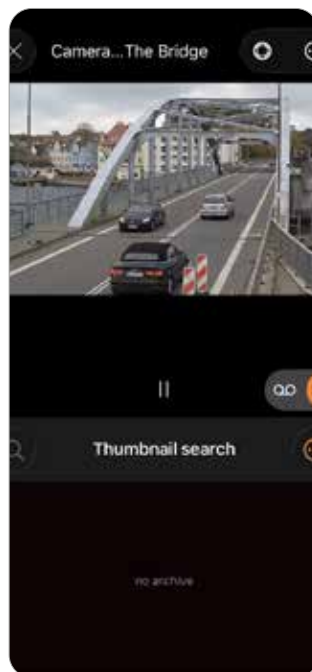
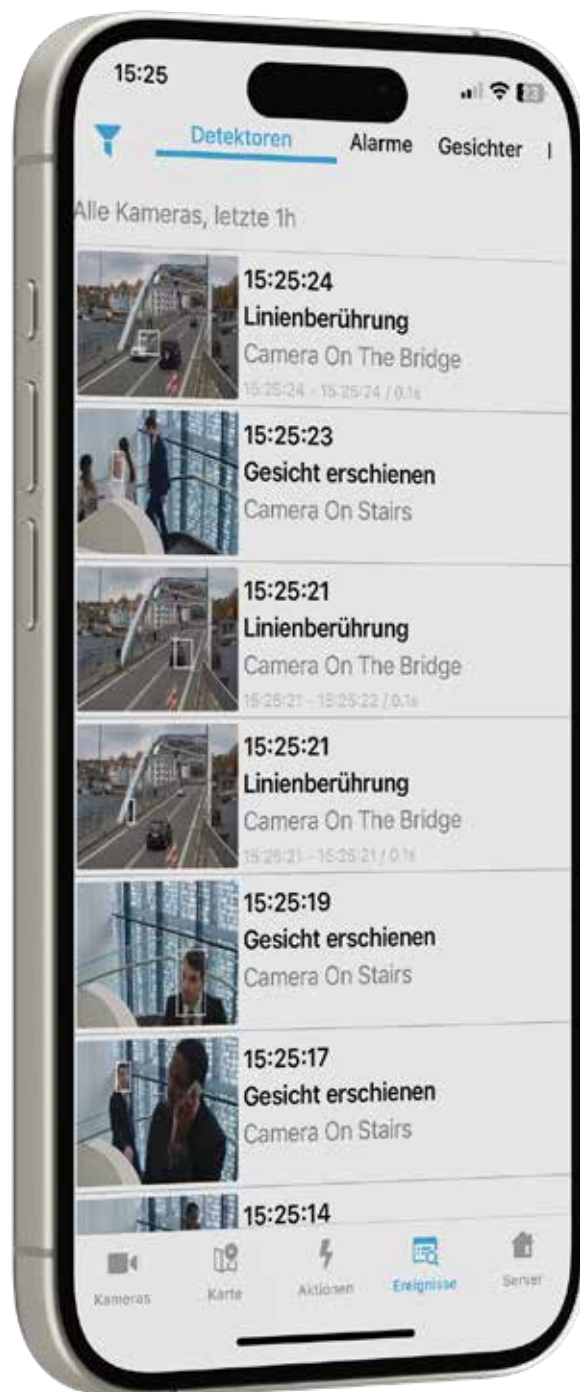
## C-WERK® HIGHLIGHTS

- Unlimited number of cameras, up to 30 servers
- Support for more than 10.000 IP devices
- Advanced video analytics with AI detection
- Unique tools for fast video footage retrieval
- Flat pricing: easy to budget and save
- Zero maintenance fees
- Similarity search function
- Free viewer software with C-WERK® VIEWER

C-WERK®







## C-WERK® MOBILE APP

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



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



GU-CI-AC5617E  
GU-CI-AC8616E  
GU-CI-AC4614E



GU-BR-AJX01  
Junction Box Pendant Mount



GU-BR-AJX02  
Junction Box



GU-BR-AJX02B  
Junction Box



GU-CI-AC5617EB



GU-BR-AJX03  
Junction Box



GU-BR-AJX04  
Junction Box



GU-BR-AMW04  
Wall Mount Bracket



GU-BR-AMW04B  
Wall Mount Bracket



GU-CI-AC5637E  
GU-CI-AC4636E



GU-BR-AJX11  
Junction Box



GU-BR-AMW05  
Wall Mount Bracket



GU-CI-AC5617V  
GU-CI-AC8616V  
GU-CI-BC5617V



GU-BR-AJX09  
Junction Box Pendant Mount



GU-BR-AJX10  
Junction Box



GU-BR-AJX10B  
Junction Box



GU-CI-AC5617VB



GU-BR-AMF02  
Flush Mount Adapter



GU-BR-AMW04  
Wall Mount Bracket



GU-BR-AMW04B  
Wall Mount Bracket



GU-CI-AC5637V  
GU-CI-AT4634V  
GU-CI-AT8634V



GU-BR-AJX06  
Junction Box



GU-BR-AJX06B  
Junction Box



GU-CI-AC5637VB



GU-BR-AJX07  
Junct. Box Pendant Mount



GU-BR-AJX07B  
Junct. Box Pendant Mount



GU-BR-AJX08  
Dual Junction Box incl. PoE Switch



GU-BR-AMF01  
Flush Mount Adapter



GU-BR-AMW02  
Wall Mount Bracket



GU-BR-AMW05  
Wall Mount Bracket



GU-BR-AMW05B  
Wall Mount Bracket



GU-BR-ASN01  
Sunshield for Fixed Dome Cameras



GU-CI-AP4634V  
GU-CI-BP4634P  
GU-CI-BP8634P



GU-BR-AJX12  
Junction Box



GU-BR-AJX14  
Junction Box



GU-BR-AMW05  
Wall Mount Bracket



GU-CI-AC5617T  
GU-CI-AC8616T  
GU-CI-AC4614T



GU-BR-AJX01  
Junction Box Pendant Mount



GU-BR-AJX02  
Junction Box



GU-BR-AJX02B  
Junction Box



GU-CI-AC5617TB



GU-BR-AJX03  
Junction Box



GU-BR-AJX04  
Junction Box



GU-BR-AJX05  
Junction Box Hinged



GU-CI-AC5637T  
GU-CI-AC4636T  
GU-CI-BC5637T



GU-BR-AJX01 - Junction  
Box Pendant Mount



GU-BR-AJX04  
Junction Box



GU-BR-AJX02  
Junction Box



GU-BR-AJX05  
Junction Box Hinged



GU-BR-AJX03  
Junction Box



GU-BR-AML01  
Pole Mount Bracket



GU-CI-BP5634T  
GU-CI-AT4634T  
GU-CI-AT8634T  
GU-CI-AT4634T



GU-BR-AML02  
Pole Mount Bracket



GUBR-AMC02  
Corner Mount Bracket



GU-CI-AP4634T  
GU-CI-AP8634T  
GU-CI-BP8634T



GU-BR-AML01  
Pole Mount Bracket



GU-BR-AMC01  
Corner Mount Bracket



GU-CI-AP12616F



GU-BR-AJX13  
Junction Box for Fisheye Camera



GU-BR-AMP02  
Pendant Mount Bracket for  
Fisheye Camera



GU-CI-AC5647P  
GU-CI-AP5647P  
GU-CI-AP8744P



GU-CI-AP20257Q  
GU-CI-AT32637Q



GD-BR-AMA01  
Parapet Wall Mount



GD-BR-AMC04  
Corner Mount Bracket Junction Box



GD-BR-AMP01  
Pendant Mount Bracket (long)



GD-BR-AMP04  
Pendant Mount Bracket (medium long)



GD-BR-AMP06  
Pendant Mount Bracket (short)



GD-BR-AMP07  
Pendant Mount Bracket extendable



GD-BR-AMS01  
Swan Neck Mount



GD-BR-AMW09  
Wall/Pole Mount Bracket



GD-BR-AWJ03  
Wall Mount Bracket with Junction Box



GU-CI-AP8616Q  
GU-CI-AT8634E



GU-BR-AJX03  
Junction Box



GU-BR-AJX04  
Junction Box



GU-BR-AJX08  
Dual Junction Box incl. PoE Switch



GU-BR-AMW05  
Wall Mount Bracket



GU-TI-AP4603E  
GU-TI-AP4607E



GU-BR-AJX03  
Junction Box



GU-BR-AJX08  
Dual Junction Box incl. PoE Switch



GU-BR-AMW05  
Wall Mount Bracket



GU-TI-AP4603T  
GU-TI-AP4607T



GU-BR-AML01  
Pole Mount Bracket



GU-BR-AMC01  
Corner Mount Bracket



GU-BR-AJX01



GU-BR-AMP01  
Pendant Mount Bracket



GU-BR-AMW01  
Wall Mount Bracket



GU-BR-AJX03



GU-BR-AML01  
Pole Mount Bracket



GU-BR-AJX07



GU-BR-AMP01  
Pendant Mount Bracket



GU-BR-AMW01  
Wall Mount Bracket



GU-BR-AJX08



GD-BR-AMW08  
Wall Mount Bracket for PTZ Domes



GU-BR-AJX08A  
Adapter Junction Box



GU-BR-AJX09



GU-BR-AMP01  
Pendant Mount Bracket



GU-BR-AMW01  
Wall Mount Bracket



GU-BR-AJX11



GU-BR-AML01  
Pole Mount Bracket



GU-BR-AJX12



GU-BR-AMP01  
Pendant Mount Bracket



GU-BR-AMW01  
Wall Mount Bracket



GU-BR-AJX13



GU-BR-AMP01  
Pendant Mount Bracket



GU-BR-AMW01  
Wall Mount Bracket



GU-BR-AMW01



GU-BR-AMC01  
Corner Mount Bracket



GU-BR-AML01  
Pole Mount Bracket



GU-BR-AMW02



GU-BR-AML01  
Pole Mount Bracket



## SC533HAI

### WIDE FORMAT

Cost-benefit-optimized off-axis  
wide-screen backlight illumination



With the innovative SC533HAI Widescreen SMART Image Sensor for all 5 megapixel cameras in our NDAA-compliant SMART product line, GRUNDIG Security enhances the visual experience on modern LCD displays, bridging the gap between image output and natural human vision.

Thanks to SMARTClarity Technology, the SC533HAI sensor increases the number of pixels by 20% compared to many 5MP products on the market. Instead of cropping a 5MP 4:3 image down to 4 megapixels, the full resolution of the sensor is utilized to achieve a true 16:9 aspect ratio with 1620P.

This effectively reduces dark edges and distortion on both sides of the image caused by uneven scaling while achieving a true 16:9 aspect ratio with an additional 10% horizontal viewing area.

The SC533HAI sensor boasts improved sensitivity and reduced noise, even under high-temperature conditions, thanks to the unique SFCPixel® technology.

The PixGain® technology also enables excellent High Dynamic Range (HDR) performance, even under glaring sunlight.



## Environmentally Friendly Packaging

Our environmentally friendly packaging with less colour print is made from 100% recyclable material. To save resources, our detailed operating instructions are available online for download. The quick reference guides that come with the devices are printed on 100% recycled paper. In addition, our mostly fanless devices are distinguished by their low power consumption, which reduces the cost of electricity consumption.



## 3 years Extended Guarantee

GRUNDIG Security offers a 3-year guarantee on all SMART-PLUS and PRO series' cameras. Our goal: to further support our customers by making project maintenance easier and more cost-effective. The 3-year guarantee applies to all electronic components of the products mentioned above. Mechanical wear and tear on moving parts is not included. Please refer to our general terms and conditions.

## OUR AMBITION: THE PURSUIT OF A MORE SUSTAINABLE FUTURE

A holistic approach to sustainability and respect for all natural resources belong to our top priorities and are therefore an essential part of our DNA. This is also reflected in our products: they work as sustainably as possible while meeting the highest standards as regard to quality and aesthetics. During production, we consider the environment as much as possible, and we are always looking for ways to incorporate the ideas of sustainability into our products.

## 8 MEGAPIXEL SMART LINE CAMERAS WITH P-IRIS TECHNOLOGY FOR OPTIMAL IMAGE SHARPNESS

P-Iris (short for Precision Iris) is an advanced, automatically controlled iris mechanism used in surveillance cameras and machine vision systems. It allows precise control of the lens aperture using a stepper motor, offering better image quality than traditional Auto Iris (DC-Iris) systems.

### Key Features of P-Iris:

- Precise aperture adjustment via a stepper motor.
- Maintains optimal image sharpness and depth of field, even under changing lighting conditions.
- Works in coordination with the camera's software, not just for correct exposure, but to optimize image quality.
- Unlike DC-Iris (which reacts only to light changes), P-Iris can actively enhance the image.

### Advantages of P-Iris:

- Minimizes blur caused by diffraction or overly wide apertures.
- Improves image quality in bright daylight, especially in HD or megapixel cameras.
- Maintains a consistent depth of field, useful for scenes with varying distances.

| Feature         | DC-Iris (Auto Iris)         | P-Iris (Precision Iris)           |
|-----------------|-----------------------------|-----------------------------------|
| Control type    | Analog, voltage-controlled  | Digital, stepper motor-controlled |
| Image sharpness | Varies with light           | Consistently optimized            |
| Depth of field  | Not optimized               | Optimized automatically           |
| Image stability | Can degrade in bright light | Remains high in all light levels  |

## P-IRIS FUNCTION OF THE CAMERA MODELS



### GU-CI-AP8634T \*

### GU-CI-BP8634T \*\*

- 8 Megapixel
- \* 2.8 ~ 12mm motorized, autofocus
- \*\* 8 ~ 32mm motorized, autofocus
- P-Iris
- 1/1.8" Sensor
- Ultra low light
- Sensitivity (colour): 0.0005 Lux
- Built in speaker & microphone
- IK10
- SMART Dual Light Technology with IR (up to 50m) and white light LEDs

[www.grundig-security.com.tr](http://www.grundig-security.com.tr)

İNTEGRAL KURUMSAL TEKNOLOJİ ÇÖZÜMLERİ SAN. VE TİC. LTD. ŞTİ.  
[info@grundig-security.com.tr](mailto:info@grundig-security.com.tr)

Errors excepted I Grundig reserves the right to change specifications without notice I ABETECHS GMBH 2026 | Release Date: August 2026  
Some of the application scenarios shown are AI-generated visualisations.  
They are intended solely to illustrate the video analytics and security functions described and do not depict real events.