

## System 106 camera module

5561 000

# GIRA

10864530 40/16

## General safety instructions



Electrical devices may only be installed and connected by a qualified electrician.

These instructions are part of the product and must remain with the end customer.

### Necessary accessories

- System 106 intercom module (Item no. 5563 ..) with call-button module (item no. 555. ..) or door station module (Item no. 5565 9..).
- Video control device (item no. 1288 00).
- Gira home station video (e.g. surface-mounted home station video Plus).
- System 106 surface-mounted housing, 1-gang to 5-gang (Item no. 5501 ..., 5502 ..., 5503 ..., 5504 ..., 5505 ...).

### Accessories

- Power supply for door communication DC 24 V 300 mA (item no. 1296 00).

## Functional description

The camera module adds the "Video" functionality to the Gira door communication system 106.

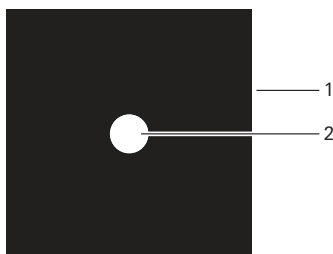
### Scope of supply

- 1 x System 106 camera module
- 1 x operating instructions
- 1 x video cable, short
- 1 x video cable, long

Ensure the package contents are complete and undamaged. When filing complaints, see "Warranty".

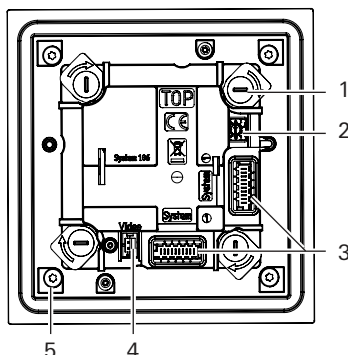
## Device description

### Front view



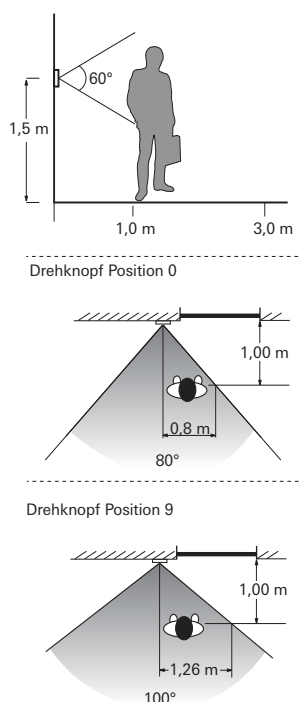
- 1 Glass front
- 2 Camera lens aperture

### Rear view



- 1 Turn-type lock (4 x)
- 2 Rotary switch: Select image area (0-9)
- 3 Slot (2 x): System cable
- 4 Slot: Video cable
- 5 Glass front mounting (4 x)

### Range of detection



## Selecting installation site

Observe the following when selecting the installation site:

- **No back light:** Do not point the camera towards a strong back light source, such as a street light or garden lights. Do not expose lens to direct sunlight.
- **Image background:** Do not point camera to extremely bright image backgrounds with strong contrasts.
- **Lighting:** If there is additional lighting in the entrance area, this should not shine directly onto the camera lens from the front (see "back light").
- **Mounting height:** 1.5 m (recommendation).
- **Angle of detection:** 100°

## Camera heating

The camera has two internal heaters. When local conditions cause rapid climatic changes, the second heater is needed to prevent the cover glass from fogging up. If the second heater is used, an additional power supply is required. The first heater is automatically activated at a temperature of  $< 6^{\circ}\text{C}$  and is deactivated at  $+12^{\circ}\text{C}$ .

## Night mode



### Automatic changeover to night mode

For the duration of an active conversation, the camera automatically switches to night mode as from a brightness value of  $< 1\text{ lx}$ . Night mode = b/w image and HLR is active. Infrared illumination is only active if this function has previously been set at the home station.

## Noise reduction mode (NR)

The NR mode prevents the camera image from developing image noise in twilight conditions.

## Infrared illumination

In night mode, IR illumination enables a glare-free illumination of the field of view. When an additional power supply is used, the effective range of the IR illumination increases to 3 m.

## High light compensation (HLC) function

The HCL function serves to invert bright areas in night mode. Very bright areas are inverted to black (e.g. car headlights).

## Wide dynamic function (WD)

The WD functions automatically adapts the camera image brightness ensuring that all image areas are clearly visible. This makes persons present in dark areas of the camera image visible.

## Installing the module



### Installing the module

The installation instructions for the System 106 surface-mounted 1-gang to 5-gang housing describes the following working steps:

- Lock the module on the mounting frame.
- Plug in the connection cable.
- Place terminating resistors.



### Terminating resistor

From the 2-gang surface-mounted housing up, there are always two terminating resistors included.

The terminating resistors are always connected to the first and last module on the system cable.

Starting up the camera module

When assigning a call button (see operating instructions for door station and call-button module), the camera module is automatically logged in. All components (System 106 module, home stations, control devices etc.) must be installed **previous** to successful start-up.

Configuring the module

Setting the image area

Fixed image sections (white) of the entire image (grey) can be enlarged via the rotary switch located on the rear. Position "0" = State of delivery.

| Rotary knob position | Range of detection |                 |
|----------------------|--------------------|-----------------|
| 0                    |                    | Central         |
| 1                    |                    | Top centre      |
| 2                    |                    | Top right       |
| 3                    |                    | Right middle    |
| 4                    |                    | Bottom right    |
| 5                    |                    | Bottom middle   |
| 6                    |                    | Bottom left     |
| 7                    |                    | Left middle     |
| 8                    |                    | Top left        |
| 9                    |                    | 4:3, compressed |

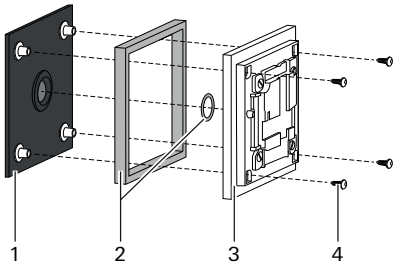


Settings via other devices of the door communication system

The following settings mare made directly at the home station:  
Brightness, contrast, colour and switch-on time, IR illumination.

Changing the glass front

- 1. Open the housing and remove the mounting frame.
- 2. Unlock the camera module and remove it from the mounting frame.
- 3. Remove mounting screws and then remove the glass front including seals.



- 1 Glass front
  - 2 Seals
  - 3 System 106 camera module
  - 4 Mounting screws (4 x)
4. Position new glass front with a new seal and assemble in reverse order.

Technical data

|                                              |                                                                                                                                               |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:                                | Via system (flat ribbon cable, 10-pin)<br>2 cameras via Video control device<br>Camera 3 and 4 via external additional power supply (DC 24 V) |
| Power consumption                            |                                                                                                                                               |
| Stand-by mode (T > 6 °C):                    | 80 mW                                                                                                                                         |
| Stand-by mode (T < 6 °C):                    | 1.2 W (heater 1 on)                                                                                                                           |
| Stand-by mode (T < -2 °C):                   | 3.1 W (additional supply connected, heater 1+ 2 on)                                                                                           |
| Camera active:                               | 2.7 W                                                                                                                                         |
| Connections:                                 | 2 x system (flat ribbon cable, 10-pole)<br>1 x video (analogue)                                                                               |
| Camera sensor                                |                                                                                                                                               |
| Type:                                        | CMOS 1/3"                                                                                                                                     |
| Resolution:                                  | 2 MP                                                                                                                                          |
| Visible range of detection:                  | 100°                                                                                                                                          |
| Displayed detection range (on screen):       | 105° (rotary switch in position 9)<br>85° at normal 4:3 output                                                                                |
| Colour system:                               | PAL                                                                                                                                           |
| Video signal resolution (analogue CVBS):     | 50Hz/625 lines                                                                                                                                |
| Switchover threshold from day to night mode: | 1 lx                                                                                                                                          |
| Light sensitivity in B/W mode:               | 0.1 lx                                                                                                                                        |
| Electronic shutter speed:                    | up to 1/60 000 s                                                                                                                              |
| Mounting height:                             | Recommended: 1.50 m                                                                                                                           |
| Ambient temperature:                         | -25 °C to +70 °C                                                                                                                              |
| Protection                                   | IP54                                                                                                                                          |
| Dimensions (W x H):                          | 106.5 x 106.5 mm                                                                                                                              |

Warranty

The warranty is provided in accordance with statutory requirements via the retailer. Please submit or send faulty devices postage paid and with an error description to your sales representative (retailer/ installation company). The salesperson will forward the devices to the Gira Service Center.

Gira

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