

Gira System 106 Camera Module



Gira System 106 Camera Module Instruction Manual

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GIRA

Gira System 106 Camera Module



Specifications

- **Model:** System 106 camera module 5561 000
- **Functionality:** Adds Video functionality to Gira door communication system 106
- **Range of Detection:** 1.0m – 3.0m
- **Features:** Night mode, Noise reduction mode, Infrared illumination, High light compensation function, Wide dynamic function

Product Usage Instructions

Installation

To install the camera module, follow these steps:

1. Ensure the package contents are complete and undamaged.
2. Mount the camera module at the selected installation site.
3. Connect the video cable to the camera module and the intercom and door station module.

Starting Up

When assigning a call button, the camera module is automatically logged in. Ensure all components are installed before start-up.

Configuring

To configure the camera module:

- Set the image area using the rotary switch on the rear of the module.
- Adjust the visible range of detection on the home station corresponding to the image areas.

FAQ

- **Q: How does the camera module switch to night mode?**

A: The camera switches to night mode automatically when the brightness value is below 1 lx during an active conversation.

- **Q: What is the purpose of Noise Reduction mode?**

A: The NR mode prevents image noise development in twilight conditions.

- **Q: How can I increase the effective range of IR illumination?**

A: Using an additional power supply increases the effective range to 3m.

Operating instructions

System 106 camera module
5561 000

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.

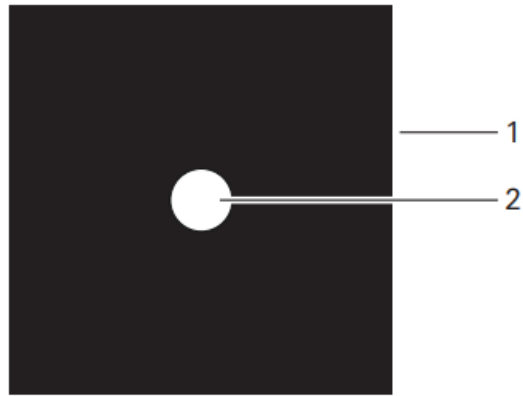
Scope of supply

- 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

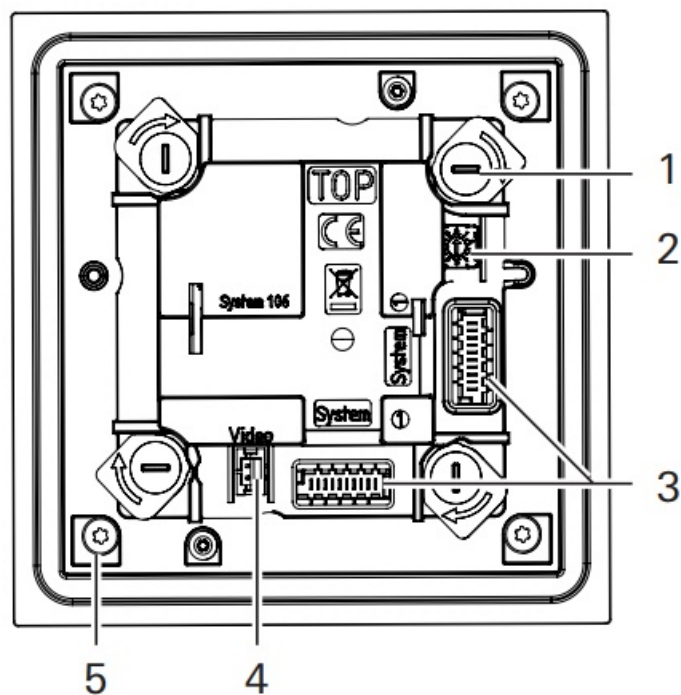
Front view



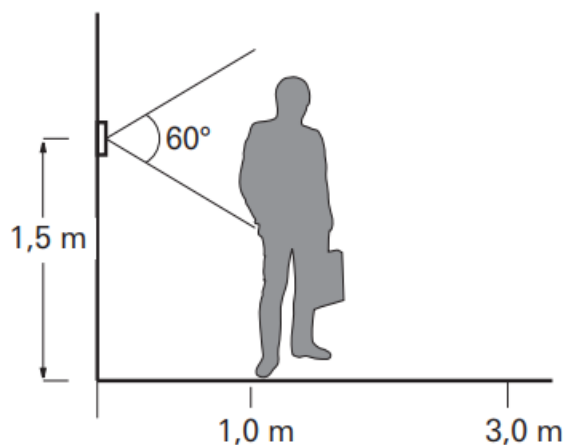
- 1. Glass front
- 2. Camera lens aperture

Rear view

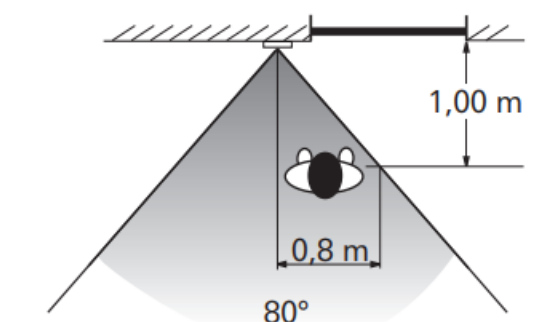
- 1. Turn-type lock (4 x)
- 2. Rotary switch: Select image area (0-9)
- 3. Slot (2 x): System cable
- 4. Slot: Video cable
- 5. Glass front mounting (4 x)



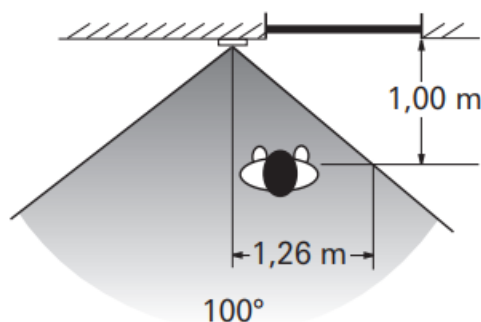
Range of detection



Drehknopf Position 0



Drehknopf Position 9



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.

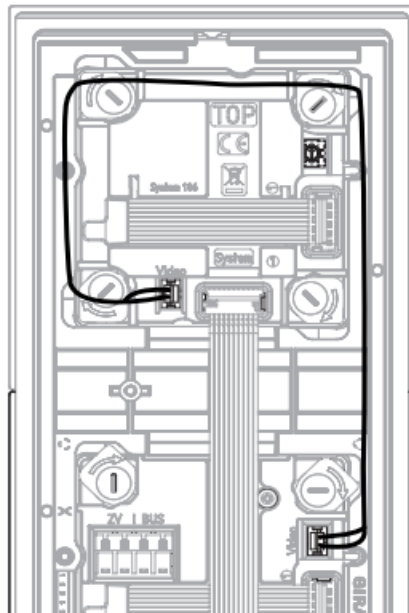
Terminating resistor

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 (see operating instructions for surface-mounted housing, 1-gang to 5-gang).

Video cable

Plug the video cable into the port of the camera module and the intercom and door station module.



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. The visible detection range corresponds to the image that can be seen on the home station and not to the position of the camera lens. Position "0" = Default delivery state.

Rotary

knob position on the camera module

Visible range of detection on the home station

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 are made directly at the home station:

- Brightness, contrast, colour and switch-on time, IR illumination.
- For more detailed information, please consult the operating instructions for the respective home station.

Changing the glass front

If the glass front is damaged, please get in touch with your sales contact (retailer/installation company/electronics retailer). Your sales contact will be provided with a replacement device via the Gira Service Center. Upon replacement, the defective device will be returned to the Gira Service Center.

Technical data

- Power supply: Via system (flat
- ribbon cable, 10- pin)
 - 2 cameras via Video control device
 - Camera 3 and 4 via external additional power supply (DC 24 V)
- Power consumption

- Stand-by mode
- ($T > 6\text{ °C}$): 80 mW
- Stand-by mode
- ($T < 6\text{ °C}$): 1.2 W (heater 1 on)
- Stand-by mode
- ($T < -2\text{ °C}$): 3.1 W (additional
- supply connected,
- heater 1+ 2 on)
- Camera active: 2.7 W
- Connections: 2 x system (flat
- ribbon cable, 10- pole)
- 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) 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.

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Documents / Resources



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System 106 Camera Module, System 106, Camera Module, Module

References

-  [Schalter, Steckdosen & smarte Technik | Gira](#)
- [User Manual](#)

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