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Flexible solutions for internal and external use
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Gira door communication system
Flexible solutions for internal and external use

The Gira door communication system offers solutions for all internal and external requirements. Door intercoms to match the Gira switch ranges, video function, keyless access control, flexible operating options with connections to IP networks, and much more.

Internal door intercoms
Gira home stations are voice, video and operating units at the front door. Gira offers devices for surface-mounted and flush-mounted installation which have a modular design and can be combined to match the Gira switch ranges, as well as fully pre-assembled stations like the Gira VideoTerminal.

External door intercoms
Gira door stations are suitable for many areas of application, from single-family homes to large properties with up to 136 residential units. The product range includes surface-mounted and flush-mounted variants, solutions for integration in existing systems, and options for installation in front panels and letterbox systems from Renz and other manufacturers.

In the style of the switch range
The door intercoms of the Gira door communication system are integrated in the Gira switch ranges. This means both unity of design for the entire electrical installation in the home and a large degree of freedom in selecting colour and frame variants to match any personal interior design style.

Network-capable door communication
The Gira door communication system offers the option of completely integrating Gira door and home stations into IP networks. This allows the easy use of a wide variety of operating devices such as the Gira Control Clients or a computer to communicate with visitors in the entrance area. Door communication is possible in the home’s own wireless LAN using video telephony apps like Bria on a smartphone or tablet.
See who is at the door
Gira home stations

Gira home stations are voice, video and operating units at the front door. Gira offers devices for surface-mounted and flush-mounted installation which have a modular design and can be combined to match the Gira switch ranges, as well as fully pre-assembled stations like the Gira VideoTerminal. Additional solutions enable images to be displayed on the TV, opening the door using a landline telephone, and convenient door communication on a PC.
Fig.: Gira surface-mounted home station video Plus, E2, pure white glossy
Modular combination of functions
Gira flush-mounted home stations

Gira home stations for flush-mounted installation are available as basic devices with hands-free units or receivers. Optionally both variants can be equipped with a TFT colour display or an additional call button. In connection with switching actuators, call buttons can also be used to switch lights. Five different ringing tone melodies can be set.

Fig.: Gira home station with TFT colour display, Gira E2, pure white glossy

Display
Thanks to TFT technology and LED backlighting, the optional colour display delivers excellent image quality, even when viewed at an angle.

Loudspeaker/microphone
With modern microprocessor technology, Gira home stations achieve voice quality comparable to that of modern mobile phones.

Call buttons
The surfaces of the call and operating buttons are robust, UV-resistant, and shock and scratch resistant.

Design
The home stations are integrated into the world of the Gira switch ranges and are therefore available in many design variants.

2-wire bus
Only two wires are required to supply power to the various components and the transmission of all audio and video signals.

Gira Inscription Service
With the Gira Inscription Service, the call buttons for the Gira flush-mounted home stations can be designed in just a few steps online. At www.marking.gira.com, an inscription can be drafted and ordered using a web form. Printed inscription holders are then immediately sent per post. The labels are transparent, non-fading, weather-resistant and wrinkle-free (subject to a charge). In addition, it is possible to save the draft as a PDF document and print it yourself. Electrical trade specialists use the "DesignPro Edition Gira" inscription software from Avery Zweckform. Gira offers suitable A4 size inscription sheets.
Home stations with hands-free units
An echo suppressor activates the microphone automatically where the voice level is greater. However, if ambient noises at the front door are particularly loud, the microphone on the home station can also be activated with the press of a button. The surfaces of the call and operating buttons are robust, UV-resistant, and shock and scratch resistant. The push buttons are assigned functions such as opening door, switching light, call acceptance and control of ringing tone and speech volume. An automatic door opener can be activated optionally, e.g. to open the door of a doctors’ practice automatically when the doorbell is rung.

Home stations with receivers
The receiver is simply taken off the hook to accept calls. There is an operating button behind the receiver for the functions opening door and switching light.

TFT colour display
The TFT colour display is available in two sizes: For the Gira switch ranges in System 55 and Gira E 22, the screen diagonal is 4.6 cm (1.8”); for the F100 range, it is 6.4 cm (2.5”). With its TFT technology and LED backlighting, the display delivers excellent image quality, even when viewed at an angle. The primary display is activated automatically as soon as someone rings the doorbell, but can also alternatively be activated manually. An on-screen menu allows brightness, contrast and colour intensity to be set conveniently. Up to three connected cameras can be selected.

Additional call button
An additional call button can be installed, e.g. to communicate among several in-house home stations.
Quick and simple installation
Gira surface-mounted home stations

The Gira home stations for surface-mounted installation can be installed directly on the wall quickly and easily. Completely pre-assembled, they are only 21 mm thick and can either be integrated in the Gira switch ranges or used without cover frames. The surface-mounted home stations video, surface-mounted home stations video Plus, surface-mounted home station, and surface-mounted gong are available as additional solutions, e.g. for remote rooms.

Fig.: Gira surface-mounted home station video Plus, Gira E2, pure white glossy

Polyphone ringing tones
Up to ten customised polyphone ringing tones can be saved on the integrated microSD card. (Surface-mounted home station video Plus)

TFT colour display
The high-resolution 5.6 cm (2.2") TFT colour display delivers excellent colour rendering and good visibility from different viewing angles.

Editable menu
Names can be assigned to internal calls and switching actions.

Capacitive sensor buttons
The capacitive sensor buttons react even to light pressing and ensure convenient operation.

Homogeneous front
A special feature of the surface-mounted home stations video and video Plus is its homogeneous front. The loudspeaker and microphone are not directly visible from the front.

Internal image memory
Up to three images are taken and saved whenever the doorbell is rung. This allows you to see who was at the door after periods of absence. Images can also be recorded manually during a conversation. (Surface-mounted home station video Plus)

Polyphone ringing tones
Up to ten customised polyphone ringing tones can be saved on the integrated microSD card. (Surface-mounted home station video Plus)

TFT colour display
The high-resolution 5.6 cm (2.2") TFT colour display delivers excellent colour rendering and good visibility from different viewing angles.

Editable menu
Names can be assigned to internal calls and switching actions.

Capacitive sensor buttons
The capacitive sensor buttons react even to light pressing and ensure convenient operation.

Homogeneous front
A special feature of the surface-mounted home stations video and video Plus is its homogeneous front. The loudspeaker and microphone are not directly visible from the front.

Additional functions
As an option an automatic door opener and automatic call acceptance for internal calls can be activated.

2-wire bus
Only two wires are required for the power supply of the various components and the transmission of all audio and video signals.

Simplified installation
Installation is in just two easy steps. The base plate is first mounted and wired on the wall with the connection terminals. The device itself then only needs to be locked onto the mounting plate.
Gira surface-mounted home stations video and video Plus
The Gira surface-mounted home stations video and video Plus are equipped with state-of-the-art 5.6 cm (2.2”) TFT colour displays. This ensures excellent picture quality, even when viewed at an angle. Using capacitive sensor buttons which react even to light pressing, functions such as switching light, opening the door, deactivating the ringing tone and accepting calls can be controlled easily. To ensure greater operational safety, internal calls and switching actions can be provided with individual names. The hands-free speech function reacts sensitively enough that the speaker does not have to stand directly at the microphone in order to be understood. Further functions: call acceptance, opening door, switching ringing tone on/off and regulating of ringing tone volume and speech volume.

Surface-mounted home station
Four buttons control the operation of the home stations. Communication takes place via hands-free functionality, whereby the speaker does not have to stand directly at the microphone in order to be understood. Further functions: call acceptance, opening door, switching ringing tone on/off and regulating of ringing tone volume and speech volume.

Surface-mounted gong
Ideally suited for notification in remote rooms: the Gira surface-mounted gong signals both acoustically and with an LED when someone rings the doorbell. Different ringing tones signal whether it is a door call, an internal call or a floor call. Using the operating buttons, the ringing tone can be switched on or off and the volume of the ringing tone can be regulated.

Shown in Gira E2 switch range, pure white glossy
In the style of the switch range
Diverse design variants

The door intercoms of the Gira door communication system are integrated in the Gira switch ranges. This means both unity of design for the entire electrical installation in the home and a large degree of freedom in selecting colour and frame variants to match any personal interior design style.

Fig.: Gira surface-mounted home station video Plus, push switch, Gira E2, pure white glossy

Fig.: Gira surface-mounted home station video, push switch, Gira Event Clear, green/pure white glossy
Gira door communication system

Design variants

Fig.: Gira surface-mounted home station video Plus, push switch, Gira Esprit, glass black/colour aluminium

Fig.: Gira surface-mounted home station video Plus, push switch, Gira Esprit, stainless steel/pure white glossy
Large-format door intercom
Gira VideoTerminal

Thanks to its high-resolution TFT colour display with 14.5 cm (5.7”) screen diagonal, the Gira VideoTerminal delivers excellent image quality, even when viewed at an angle. Excellent voice audibility is guaranteed by the integrated echo and background noise suppression. The elegant glass design cover plate is available in the colours black, white and mint.

Fig.: Gira VideoTerminal, glass black, flush-mounted mounting frame

Design
The elegant glass design cover plate is available in the colours black, white and mint.

Display
The high-resolution 14.5 cm (5.7”) TFT colour display delivers excellent image quality, even when viewed at an angle.

Operation
The Gira VideoTerminal can be operated easily and intuitively via four large function buttons and a backlit knob which is turned and pressed.

2-wire bus
All audio and video signals are transferred via the 2-wire bus.

Power supply
The VideoTerminal requires an additional power supply. Therefore, two additional wires are provided for connecting the power supply.

Loudspeaker/microphone
The integrated echo and background noise suppression provides a high level of voice quality.
Operation/functions

The Gira VideoTerminal is equipped with a high-resolution 14.5 cm (5.7") TFT colour display which delivers excellent image quality, even when viewed at an angle. With the corresponding mounting frame, it is suitable for both flush-mounted and surface-mounted installation. Operation is simple and intuitive via a backlit knob for turning and pressing and four large function buttons. The rotary knob displays an additional on-screen menu via which various basic settings can be made during initial use. Later on, brightness, colour intensity, contrast and the switch-on time of display can be set using it. With the four buttons, basic functions can be controlled, such as opening the door, switching ringing tone on/off, switching light, and switching on/toggling the camera.

Due to its microprocessor technology and integrated background noise suppression, the Gira VideoTerminal delivers excellent voice quality. An echo suppressor activates the microphone automatically where the voice level is greater. However, if ambient noises at the front door are particularly loud, the microphone on the home station can also be activated with the press of a button.

The Gira VideoTerminal has been designed to provide barrier-free use to all users. The German Society for Gerontotechnology® tested the product thoroughly and awarded it its "GGT Seal".

Flush-mounted installation dimensions
W x H x D 194 x 252 x 64 mm

Surface-mounted dimensions
W x H x D 182 x 246 x 52 mm
Expansion installation on the wall
Gira Profile 55

The Gira Profile 55 enables the expansion of an existing electrical installation without having to prise open the wall. It can integrate the Gira home stations and all functions from Gira System 55.

Profile 55 for wall installation
The Gira Profile 55 is available in aluminium and aluminium pure white lacquered. The system can be mounted simply, quickly and cleanly in just minutes – horizontally or vertically. For example, if a door opener is only available at the height of the door handle in the hallway, the Gira Profile 55, 5-gang/600 brings the home station to the optimal installation height of 1.60 metres and offers more space for additional functions.
The Gira Profile 55 with angled mounting bracket/base foot can also be equipped with the functions of door communication, for example. It’s possible to position the home station right on a desk, instead of in its usual location at the front door. Using angled mounting brackets, the Gira Profile 55 can also be easily mounted under hanging cabinets, which makes it ideally suited for expanding electrical installation to the workshop or garage.
Door communication over the telephone
Gira DCS-TC-gateway

The Gira DCS-TC-gateway integrates the Gira door communication system into the existing telephone system. In this way, wired, DECT and mobile telephones can be used to accept calls and open the door.

Operation/functions
The respective telephone numbers are programmed in advance in the DCS-TC-gateway. Then it rings e.g. simultaneously in the garden, holiday home or at work, and the visitor at the front door can be spoken to. Up to 2 x 50 phone numbers can be programmed in. Day/night switching is also integrated. The DCS-TC-gateway sends a different signal than the normal phone call. This can be signified with differing ringing tones from a local wired telephone. In addition, it supports the call waiting function during an existing external call. The DCS-TC-gateway can be configured via the telephone’s DTMF tones or via PC-supported programming software. An interface enables software updates for the gateway.
Picture display on the TV
Gira DCS-TV-gateway

Watching the thriller on TV and not having to get up when somebody rings the doorbell – the Gira DCS-TV-gateway offers the right technology. It converts the signal of the external video camera and passes it on to the television set.

Transfer types
The data can be transferred in three different ways.
01) The picture is transferred directly per SCART connection to the TV. It then appears automatically as full-screen or as picture-in-picture if the television set offers this function.
02) With an additional AV modulator, the signal is routed via the house’s antenna system, and a channel for calling up the signal is reserved on the television set. When the doorbell rings, the visitor can be seen on the TV screen when the respective channel is selected.
03) The image signal is made network-capable with a video server and is therefore also available for the Gira HomeServer.

With this variant, all parties within the house need just one DCS-TV-gateway.

Even more convenient: in connection with the DCS-TC-gateway, communication is possible with the door station using the telephone and the door is opened.
High level of flexibility for door communication
Gira DCS-IP-gateway

The Gira door communication system offers the option of completely integrating Gira door and home stations into IP networks. This allows a wide variety of IP operating devices to be used to communicate with visitors in the entrance area. In addition, the Gira door communication system can be integrated directly into building control if desired.
Network-capable and mobile
The operating devices for the Gira DCS-IP-gateway

In combination with the Gira DCS-IP-gateway, a wide variety of operating devices can be used for door communication: the Gira Control Clients, Windows PCs and Macs, and smartphones, tablets, and suitable smart TVs.

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**Door communication using the Gira Control Clients**
The Gira Control Clients are the central operating devices for the Gira HomeServer and the KNX installation in the home. With their brilliant touch displays, they enable simple control of the entire home technology with just a single finger. Audio-visual door communication can be seamlessly integrated in the user interface for building control via a software plug-in for the Gira HomeServer. Moreover, with the Gira DCS Communicator software, the Gira Control Clients can also be used as a simple home station.

**Door communication with the computer**
At the office workplace or at home on the sofa; with the Gira door communication system, computers can be used easily as additional door intercoms. Occupants can conveniently see who is at the door, talk to visitors and open the door at the click of a mouse. Communication is via a headset or an integrated microphone. Voice transmission is lip-synchronised via SIP.
Door communication in the IP network
Gira DCS-IP-gateway

The Gira DCS-IP-gateway makes door communication even more convenient and flexible. The intelligent interface integrates Gira door and home stations simply into IP-based networks with 2-wire bus, which enables door communication with a wide variety of operating devices. Moreover, the Gira door communication system can also be integrated directly into the building control if desired using the Gira HomeServer.

Door communication with the Gira DCS-IP-gateway
With the Gira DCS-IP-gateway, the Gira Control Clients or a computer can also be easily used as a home station and for in-house communication. The software required for this purpose, the Gira DCS Communicator, is available for Windows and Mac OS X. With it, all functions of the door communication can be controlled simply and intuitively. Door communication is possible in the home’s own wireless LAN using video telephony apps like Bria on a smartphone or tablet.

Door communication integrated in building control
The Gira DCS-IP-gateway can also be connected to the Gira HomeServer via a plug-in. Thus the audio-visual door communication is seamlessly integrated in the Gira Interface, the user interface of the Gira HomeServer. This creates numerous new application possibilities in the KNX system and allows individual voice messages to be played via the Gira door stations. The Gira Keyless In components Fingerprint, Transponder and Keypad can be integrated (see page 38).
Simple commissioning and configuration
Gira Assistant for IP door communication

The Gira Assistant for IP door communication enables simple commissioning and configuration of the Gira DCS-IP-gateway. The intuitive software can be easily called up with an Internet browser and supports users, for example in determining the individual components in the system, configuring call buttons, switching actions, or internal calls, and performing updates.
See it all, hear it all
Gira door stations

The Gira door stations serve as voice, video and operating units for external areas and are as such the counterpieces to home stations within the building. They can be used to equip a wide range of properties – from single-family homes to large commercial buildings with up to 136 units. The product range includes surface-mounted and flush-mounted variants, solutions for integration in existing systems and options for installation in front panels and letterbox systems from various manufacturers. In combination with the new Gira DCS repeater, systems with a cable length of 600 m between the door station and home station can also be realised (resulting in a total cable length of 1.2 km) – an ideal solution for large buildings with many areas.
Fig.: Gira energy profile, equipped with colour camera, door station 1-gang and Keyless In Fingerprint, colour aluminium
Modular combination of functions
Gira flush-mounted door stations

The Gira door stations for flush-mounted installation are installed in combination with the cover frames from the Gira TX_44 switch range. The basic variant is equipped with a loudspeaker, a microphone and a 1-gang or 3-gang call button. The door stations can be expanded with additional components such as a colour camera, info module, or Keyless In products. The door stations are available in pure white, anthracite and colour aluminium.

Fig.: Gira door station, 3-gang with colour camera, colour aluminium

Colour camera
If the ambient brightness drops below a value of 1 lux, the colour camera automatically switches from day to night mode. Additional LEDs then evenly illuminate the camera field of view.

Loudspeaker/microphone
With modern microprocessor technology, the door stations achieve excellent voice quality.

Call buttons
The call buttons are robust, UV-resistant, and shock and scratch resistant and are evenly backlit in white or blue with energy-saving LEDs.

2-wire bus
Only two wires are required for the power supply of the various components and the transmission of all audio and video signals.

Design
It all fits together: the door stations are integrated into the TX_44 switch range and thus allow a unified design for external areas.

Gira Inscription Service
With the Gira Inscription Service, the call buttons for the Gira flush-mounted door stations can be designed in just a few steps online. At www.marking.gira.com, an inscription can be drafted and ordered using a web form. Printed inscription holders are then immediately sent per post. The labels are transparent, non-fading, weather-resistant and wrinkle-free (subject to a charge). In addition, it is possible to save the draft as a PDF document and print it yourself. Electrical trade specialists use the “DesignPro Edition Gira” inscription software from Avery Zweckform. Gira offers suitable A4 size inscription sheets.
**Loudspeaker/microphone**

The hands-free unit is equipped with an echo suppressor which activates the microphone automatically where the voice level is greater. However, if ambient noises at the front door are particularly loud, the microphone on the home station can also be activated with the press of a button.

**Call buttons**

The door stations can be expanded with additional call buttons (1-gang or 3-gang) and an inscribable info module e.g. for house number, name, or opening hours. If a call button is unassigned, a cover plate is simply mounted over that call button, or in combination with a switching actuator the call button takes on another function such as light switching. The push buttons are evenly backlit in white or blue with maintenance-free, energy-saving LEDs.

**Colour camera with day/night switching**

Sees it all: the Gira colour camera has a wide-angle lens with a range of 100°. For alignment, the lens can additionally be swivelled manually by 20° in any direction. A further feature: day/night switching. If the ambient brightness drops below a value of 1 lux, it automatically switches over from day to night mode. During daylight, the colour camera ensures optimal colour rendering through its automatic background lighting compensation, gain control and white balance. At night, it delivers extremely clear black and white images due to its light sensitivity. In order for the CCD sensor to detect all the details in the dark, the colour camera is additionally equipped with LEDs for uniform illumination of the camera field of view.

Temperature-dependent heating prevents condensed water from forming under unfavourable weather conditions. In case of damage, the camera dome can be replaced independently of the electronics.

Note: If the colour camera is used, the video control device is required.
Completely pre-assembled, 19 mm thick

Gira surface-mounted door stations

In addition to the Gira flush-mounted door stations, the Gira door communication system also offers five door stations for surface-mounted installation: they are completely pre-assembled and are only 19 mm thick. First, an anodised aluminium carrier profile with the PCB unit is screwed onto the wall. Then a cover frame is mounted which protects the electronic components from weathering.

Fig.: Gira surface-mounted door station video, 1-gang, colour aluminium

**Colour camera**
If the ambient brightness drops below a value of 1 lux, the colour camera automatically switches from day to night mode. Additional LEDs then evenly illuminate the camera field of view.

**Loudspeaker/microphone**
With modern microprocessor technology, the home stations achieve excellent voice quality.

**Call buttons**
The call buttons are robust, UV-resistant, and shock and scratch resistant and are evenly backlit in white or blue with energy-saving LEDs.

**2-wire bus**
Only two wires are required for the power supply of the various components and the transmission of all audio and video signals.

**Gira Inscription Service**
With the Gira Inscription Service, the call buttons for the Gira surface-mounted door stations can be designed in just a few steps online. At www.marking.gira.com, an inscription can be drafted and ordered using a web form. Printed inscription holders are then immediately sent per post. The labels are transparent, non-fading, weather-resistant and wrinkle-free (subject to a charge). In addition, it is possible to save the draft as a PDF document and print it yourself. Electrical trade specialists use the "DesignPro Edition Gira" inscription software from Avery Zweckform. Gira offers suitable A4 size inscription sheets.
**Loudspeaker/microphone**
The hands-free unit is equipped with an echo suppressor which activates the microphone automatically where the voice level is greater. However, if ambient noises at the front door are particularly loud, the microphone on the home station can also be activated with the press of a button.

**Call buttons**
The call buttons are robust, UV-resistant, and shock and scratch resistant: If a call button is unassigned, a cover plate is simply mounted over that call button, or in combination with a switching actuator the call button takes on another function such as light switching. The push buttons are evenly backlit in white or blue with maintenance-free, energy-saving LEDs.

**Colour camera with day/night switching**
Two of the total of five available surface-mounted door stations are equipped with colour cameras. It has a wide-angle lens and a range of 100°. For alignment, the lens can additionally be swivelled manually by 20° in any direction. A further feature: day/night switching. If the ambient brightness drops below a value of 1 lux, it automatically switches over from day to night mode. During daylight, the colour camera ensures optimal colour rendering through its automatic background lighting compensation, gain control and white balance. At night, it delivers extremely clear black and white images due to its light sensitivity. In order for the CCD sensor to detect all the details in the dark, the colour camera is additionally equipped with LEDs for uniform illumination of the camera field of view. Temperature-dependent heating prevents condensed water from forming under unfavourable weather conditions. In case of damage, the camera dome can be replaced independently of the electronics. Note: The video control device is need to use door stations with colour cameras.
Perfect for driveways or entrance gates
Gira energy and light profiles

The Gira energy and light profiles are the ideal addition to modern external electrical installation. In addition to supplying power and lighting outdoors, they can be used to communicate from the entrance or garden. The components of the door station such as colour camera, call buttons or door loudspeaker are integrated in the corresponding empty units of the profile for this purpose. The Gira Keyless In products Fingerprint, Transponder or Keypad can also be used.

Fig.: Gira energy profile, equipped with colour camera, door station 1-gang and Keyless In Fingerprint, colour aluminium

2-wire bus
Only two wires are required for the power supply of the various components and the transmission of all audio and video signals.

Material
The surface of the energy and light profiles is UV-proof, weather-resistant, and scratch and dirt-resistant.

Design
Cover frames from the Gira TX_44 switch range are used to integrate door stations in the Gira energy and light profiles.

Keyless access control
The Gira Keyless In products can also be integrated. More information can be found starting on page 36.
Functions of the door station, integrated in the Gira energy profiles
The door communication functions from the Gira TX_44 switch range can be integrated in the Gira energy profiles. Energy and light profiles with three, four, or six empty units can serve as a basis here.

Energy and light profiles
The Gira energy and light profiles can be delivered either completely pre-assembled and equipped with socket outlets and a light element, or with empty units for individual equipping with functions from the Gira TX_44 switch range. The profiles are available in anthracite and colour aluminium.
Integration in existing front panels and letterbox systems
Gira installation solutions

In cooperation with its partner Renz, Gira also offers door communication solutions for individual applications – from single-family homes to buildings with 136 units. Gira door stations can be integrated in a broad range of letterbox systems or in individually produced front panels from various manufacturers. This is also the case – in conjunction with a built-in loudspeaker – for existing units, speech compartments and door side installations. A wide selection of design and material variants is available.

Integration in letterbox systems
Through the cooperation with Renz, Gira door stations can be integrated as desired in a variety of letterbox systems. The housings are available from Renz on order with cut-outs for installing the individual Gira functions. These are then integrated with a special installation profile attached to the inside of the letterbox system.

Integration in front panels
Custom production for individual customer requirements for large residential units or the integration in front panels with flush-mounted boxes or surface-mounted housing is realised by Gira together with Renz. The front panels, made of varying materials such as stainless steel, aluminium and titanium can be varied in material thickness and surface depending on the customer’s wishes. Coloured surfaces in accordance with the RAL table are also possible. It is also integrated with an installation profile.

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The interface for mechanical call buttons in existing systems
Gira built-in loudspeakers

The Gira door communication system is integrated in letterbox systems, door side installations, or front panels using the built-in loudspeaker. The built-in loudspeaker assumes the function of a door station and acts as an adapter between the mechanical call buttons of the existing system and the Gira 2-wire bus.

Integration in existing systems
The compact, weatherproof built-in loudspeaker with an adjustable voice volume is screwed in behind the loudspeaker and microphone covers of the existing systems and can be connected to up to eight mechanical call buttons via screw terminals. Pressing the call buttons is acoustically acknowledged by the built-in loudspeaker. The inputs are polled via alternating current for trouble-free long-term operation.

The built-in loudspeaker can be connected to the colour camera of the Gira door station via a connection cable. This is integrated e.g. into a cut-out in the door side installation or in the front panel of the existing system. For integration in the system and for signal transmission and power supply, the built-in loudspeaker is connected to the Gira 2-wire bus.

Add-on module for built-in loudspeaker
The add-on module is required when more than eight call buttons are to be integrated in the Gira door communication system. It provides connection options for an additional twelve call buttons and is installed in the speech compartment of the system in addition to the built-in loudspeaker. Due to its flat, minimised design, installation of the add-on module is simple even with narrow speech compartments.

The add-on module can only be used in conjunction with the built-in loudspeaker and is connected to it via a connection cable. Up to 11 add-on modules can be connected to the built-in loudspeaker in this way. If the DCS repeater is also used, it allows properties to be realised with up to 136 units.
Elegant and robust
Gira door station stainless steel

The Gira door station stainless steel combines design and strength: it’s not only highly attractive with its high-quality stainless-steel front panel but also extremely robust and thus vandal-resistant. Variants for up to twelve residential units are available – with and without colour camera.

Fig.: Gira door station stainless steel, 4-gang

2-wire bus
Only two wires are required for the power supply and transmission of all audio and video signals.

Name plates
The 5 mm thick cover windows made of security glass are protected against spray water, withstand attacks in the form of impact, fire, or scratches, and are especially easy to clean.

Loudspeaker/microphone
With microprocessor technology, the Gira door station stainless steel achieves excellent voice quality. The concealed design of the loudspeaker and microphone protects the hands-free unit from being damaged by sharp objects.

Call buttons
The stainless steel call buttons and name plates are evenly backlit with white LEDs. Pressing the buttons is acknowledged acoustically – an additional function that can be switched off if desired.

Gira Inscription Service
This free service applies to the purchase of a Gira door station stainless steel: a professional initial inscription of the call buttons via the Gira Inscription Service for the homogeneous appearance of outdoor applications. The inscription holders are non-fading, weather-resistant, wrinkle-free and the size is optimally matched to the Gira door station stainless steel. At www.marking.gira.com, an inscription can be designed in just a few steps and ordered using a web form. You will then receive the inscription holders within a few days in the post.
**Loudspeaker/microphone**
The hands-free unit is equipped with an echo suppressor. An echo suppressor activates the microphone automatically where the voice level is greater. However, if ambient noises at the front door are particularly loud, the microphone on the home station can also be activated with the press of a button.

**Call buttons and name plates**
The stainless steel call buttons and name plates are backlit with white LEDs. Pressing the buttons is acknowledged acoustically, an additional function that can be switched off if desired.

**Vandalism-protected construction**
The polished front panel made of high-quality stainless steel is 3 mm thick and mounted without screws. A special opening tool is included in the scope of supply for unlocking. The front panel and name plates match up nearly seamlessly, so nothing can be inserted in the cracks. The name plates are protected with security glass, and the microphone and loudspeaker are concealed. The call buttons made of robust stainless steel are also extremely durable. The inscription labels can be removed from the door station without dismantling. The camera cover plate is made of shock-resistant plastic and can be easily replaced if damaged.
Integration of external cameras
Gira DCS-camera-gateway

External analogue cameras can be integrated into the Gira door communication system via the Gira DCS-camera-gateway. This even makes it possible to retrofit the door stations with video functionality and have a view of several freely selected areas with one home station.
Gira DCS-camera-gateway
The Gira DCS-camera-gateway integrates an analogue camera in the Gira door communication system via the 2-wire bus and the video control device. In this way the door stations can also be retrofitted with video functionality without much installation effort. Several DCS-camera-gateways can be operated in series or wired in a star configuration using a video multiplexer. Thus it is possible to have several freely selected areas in view consecutively with one home station, such as e.g. the courtyard entrance, back door, or the frontal view of the entrance area. The Gira DCS-camera-gateway can be installed surface-mounted, flush-mounted or on a top-hat rail using the provided DRA adapter.

External camera
The external camera for wall and ceiling mounting can be integrated into the Gira door communication system via the DCS-camera-gateway. Equipped with a wide-range lens, a zoom and focus function and integrated infrared lighting, the camera is also suitable for monitoring dark areas and use from further distances. The light-sensitive chip set ensures clear imaging in case of poor lighting conditions. Adjustable infrared LEDs enable monitoring in total darkness. Power is supplied by the Gira power supply 12 V DC/2 A DRA.

Power supply 12V DC/2 A DRA
The power supply 12 V DC/2 A DRA is used to operate the external camera.
Keyless access to rooms and buildings

Gira Keyless In

The Gira Keyless In system enables secure access control without keys by recognising fingerprints, entering a numeric code or using transponders, users can conveniently enter rooms and buildings, depending on the access authorisation. All of the devices can be installed in combination with the Gira door stations or as individual devices in standard 58 mm flush-mounted boxes.
Fig.: Gira door station, 1-gang with Keyless In Fingerprint
Opening doors with a fingerprint
Gira Keyless In Fingerprint

Gira Keyless In Fingerprint works with the biometric system. The most modern high-frequency technology recognises the fingerprint of the deepest layers of skin, so that there is reliable access even in case of minor injuries to the skin surface, slight skin soiling, or gradual changes to the skin’s structure due to age. Even children’s fingerprints from approximately six years old upwards are identified correctly. When the finger grows and changes, the system learns and repeatedly restores the data.

Fig.: Gira Keyless In Fingerprint, Gira TX_44, colour aluminium

Tampering circuit
A warning tone or a tampering circuit in connection with the Gira door communication system is triggered when the Keyless In top unit is removed without authorisation.

LED display
The three-colour LED display signals the respective state during programming and during operation. An acknowledgement buzzer is additionally heard, although it can be switched off if desired.

Self-learning
Gira Keyless In Fingerprint is a self-teaching system and combines all detected parts of a finger one after another to form a complete image. Fingers at an angle are also recognised up to a maximum of 15° from the zero axis.

Reader
Using a high-frequency conductivity process, it recognises whether a finger is "alive". Therefore the system cannot be outwitted by silicone fingerprints or even a cut-off finger. The scanner surface is tilted upwards by about 20°, so that a convenient angle for access is provided while standing. For easier orientation at night, it is also illuminated with a white LED.

Safety note
In safety-relevant areas, the Gira Keyless In system should only be used in combination with the Gira door communication system. The switching action then occurs bus-controlled in the switching actuator which is installed protected from unauthorised access.
Opening the door with a numeric code
Gira Keyless In Keypad

The Gira Keyless In Keypad opens the door when a personal number combination is entered. Even pushing without pressure is recognised as actuation. This enables wear-free operation and thus increases security. Up to 255 codes can be managed with the Keyless In Keypad.

Fig.: Gira Keyless In Keypad, Gira TX_44, colour aluminium

User interface
The capacitive sensor buttons react even when the buttons are pushed without pressure. Thus they enable wear-free operation and make it difficult to discern certain number combinations which are entered frequently. For better orientation at night, the numbers and symbols are backlit with blue LEDs.

LED display
The three-colour LED display signals the respective state during programming and during operation. An acknowledgement buzzer is also emitted, although it can be switched off if desired.

Tampering circuit
An acoustic warning tone or a tampering circuit in connection with the door communication system is triggered with unauthorised removal of the keypad unit.

Safety note
In safety-relevant areas, the Gira Keyless In system should only be used in combination with the Gira door communication system. The switching action then occurs bus-controlled in the switching actuator which is installed protected from unauthorised access.
Opening the door with a proximity key
Gira Keyless In Transponder

The Gira Keyless In transponder reader is equipped with long-range transponder technology. The reader responds to the signal from the active transponder key or the transponder card. The key can simply remain in the pocket because it transmits its signal automatically starting from approximately 1.5 m to the door. When the card is used, the device reacts within the close range of approx. 6 cm.

Fig.: Gira Keyless In transponder reader, Gira TX_44, colour aluminium, transponder card for the close range, transponder key for the long range

LED display
The three-colour LED display signals the respective state during programming and during operation. An acknowledgement buzzer is also emitted, although it can be switched off if desired.

Tampering circuit
A warning tone or a tampering circuit in connection with the Gira door communication system is triggered when the Keyless In top unit is removed without authorisation.

Close range
The passive transponder card transmits the signal at a distance of approx. 6 cm to the reader.

Long range
The active transponder key automatically triggers a switching action at a distance of approx. 1.5 m. The distance can optionally be shortened to approx. 0.75 m. The near range function is additionally integrated and triggers the command to open the door at a distance of approx. 6 cm.

Safety note
In safety-relevant areas, the Gira Keyless In system should only be used in combination with the Gira door communication system. The switching action then occurs bus-controlled in the switching actuator which is installed protected from unauthorised access.
Integration in door stations and energy profiles
Gira Keyless In

Gira Keyless In products can be integrated in the Gira door communication system. Both inside and outside, Fingerprint, Keypad and Transponder integrate harmoniously in the switch ranges. That enables not only unity of design but also greater security. When integrated, there are no contacts that can be bypassed by unauthorised persons. Integration in Gira energy profiles is also possible.

Fig.: Gira door station, 3-gang with Keyless In Fingerprint

Fig.: Gira door station, 1-gang with colour camera and Keyless In Fingerprint
Flexible access control
Gira Keyless In in combination with the Gira HomeServer

With Gira Keyless In and the Gira HomeServer, individual access to the building, individual areas, and rooms within the house can be controlled flexibly. People or groups can be granted access at any time, only at certain times, or for once only. In addition, all functions of the building technology can be coupled with the access. In this context, individual voice messages such as greeting texts or system information can be played via the door station.

System overview of Gira Keyless In in combination with the Gira HomeServer/Gira FacilityServer
Flexible access control
Application examples

Time-controlled access control
Cleaning personnel are only granted access to the building on certain days of the week and at certain times. The Gira Keyless In Keypad opens the door when a personal number combination is entered. Access is denied outside the defined periods.

Access at any time
A resident is granted access to the building at any time by entering his personal number combination using the Gira Keyless In Keypad. Any other switching processes in the home can be linked to opening the door. Programming is simple using the Gira Control Clients or on the computer.

Controlling access to areas
In a company, a certain area such as the development department should only be accessible to a defined group of people. These people are given a transponder key or a transponder card for this. Access is controlled by the Gira Keyless In Transponder using long-range transponder technology. The reader reacts to the signal of the active transponder key or transponder card – at a distance of approx. 1.5 m to the door, depending on the setting. Up to 250 keys or cards can be managed per transponder device. The keys or cards are assigned to the readers once when starting up the system.

One-time access
The parcel service wants to deliver a package, but no one is in the building. The recipient can be contacted by mobile phone. The recipient then creates a universal code with one-time validity and sends it to the parcel carrier by text message. After the number combination is entered, the Gira Keyless In keypad opens the door. Access is denied if this code is entered a second time.
Gira door communication system
Installation

Gira makes technology simple. Installation without cabling effort and configuration without the need for all living units to be present - made possible by 2-wire bus technology and the concept of one-man commissioning.

2-wire bus
The Gira door communication system is based on the 2-wire bus, whereby only two wires are required for power supply of the components and transmission of all audio and video signals. This means that, for example, an existing doorbell system can easily be replaced by the Gira door communication system. Instead of laying new cables, existing cables are used. In new installations the 2-wire bus technology reduces the usual cabling required for a door intercom and allows rapid non-interchangeable installation.

Simple programming with one-man commissioning
The Gira door communication system can be programmed cost-efficiently by one installer, enabling easier maintenance at a later date. Starting up the system is easy. Firstly, the call buttons on the door station are pressed for three seconds each in the sequence in which the home stations are to be assigned subsequently. Then one after another the home stations are processed by pressing the "Light" button each time. Alternatively, it is possible to process the stations by operating the floor-call button. The advantage: it is not necessary for all tenants to be present in order to set up the system.

Door communication planning aids
Electrical trade specialists can access additional information about the Gira door communication system in the planning aid "System basics of the Gira door communication system". It contains basic knowledge concerning planning and connection examples, wiring routing, configuration and more. (Order No. 1736 90)

Online course
Electricians can find study courses covering Gira systems at the website www.academy.gira.com. A training course about the Gira door communication system is also available there. The advantage of online learning is the user can individually decide when, how and where to study. If the user runs out of time, the training course can be paused and resumed at a later date. Multimedia preparation of diversified content makes it more fun and further links offer valuable additional information. Those wishing to learn merely need to register on the page and can then start with the program straight away.

Extended number of devices
The Gira door communication system with video functionality can be installed in buildings with up to 56 home stations. When planning the system, it has often already been determined how many home stations will be installed per residential unit. In the past it was assumed that up to three home stations could be called at the same time per call button. That limited the maximum number of devices to 36. However, in large properties often only one home station is used per residential unit.

The Gira door communication system now takes this into account. It is possible to design the unit so that a call button is coupled with just one home station. Differing equipment in the residential units is possible with a corresponding reduction in the number of devices. This can be read from a gradation overview during system planning. It specifies the maximum number of devices to be used for each set-up.

When one home station is connected per residential unit, video functionality can be realised via the Gira door communication system in up to 56 residential units. Twelve residential units can be equipped if there are two home stations per residential unit. If three home stations are installed per residential unit, a maximum of six residential units can be equipped with video functionality.

<table>
<thead>
<tr>
<th>Home stations per residential unit</th>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td>Residential units</td>
<td>56</td>
<td>24</td>
<td>12</td>
</tr>
<tr>
<td>Home stations</td>
<td>56</td>
<td>48</td>
<td>36</td>
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</table>
The essential components for door communication are the control devices. They take on fundamental tasks for supplying and controlling the system.

Audio control device
The audio control device is intended for door communication systems in which only audio components are used. It supports up to 70 devices (e.g. one built-in loudspeaker, five add-on modules for built-in loudspeakers, 136 surface-mounted home stations with a repeater). In addition, the device features a door opener contact that can be programmed with the buttons on the device. Door openers with 8 to 12 V AC operating voltage can be connected directly to the relay contact of the control device. Connecting other door openers is possible using an additional power supply. The electronic self-resetting overload protection is activated if the device is overloaded, e.g. if the bus lines are short-circuited due to an installation error or too many bus participants have been connected. Dimensions: DRA with 6 HP.

Video control device
If audio or video components are additionally used, the video control device is required. It makes more power available, as colour cameras and TFT colour displays require a higher power supply. Up to two door stations with a colour camera and (with a repeater) 56 home stations with a TFT colour display can be connected to the video control device. In total, it is possible to set up door communication systems with up to 140 audio devices. The video control device also disposes of an additional button for programming the door opener. Two colour cameras can be supplied directly via the video control device. A third camera can be optionally connected. This requires an additional power supply. Dimensions: DRA with 8 HP.

Switching actuator
The switching actuator is used when a switching function is to be carried out on the Gira home station or via an unassigned call button, such as switching the staircase light or opening the garage door. Together with a commercially available doorbell transformer, the switching actuator can also be used to control additional door openers, for example for a driveway gate, or the door of a side entrance. The switching actuator can be programmed for various functions using the buttons on the housing: switching, timer/sec., timer/min. (staircase function), pulse for controlling an automatic staircase unit and the door opener function. In addition, the switching actuator has a binary input with which all the function types can be executed via a mechanical push button. The switching actuator is also available as a flush-mounted device. Dimensions: DRA with 2 HP.

Power supply for door communication 24 V DC
A power supply of 24 V DC 300 mA is required for using several cameras, supplying power to the call button illumination in large facilities and for operating in combination with the Gira DCS-TC-gateway or the Gira DCS-IP-gateway. The Gira VideoTerminal requires a higher additional power supply of 24 V DC 700 mA. Dimensions: DRA with 5 HP.
Gira door communication system

Signal processing

With the DCS repeater, video multiplexer, video amplifier and video distributor, four system devices are available in the Gira door communication system for flexible system planning. Using the supplied DRA adapter, all of the devices can be mounted on a top-hat rail in the current distributor. Furthermore, video multiplexers, video amplifiers, and video distributors possess a combination housing which allows both surface-mounted and flush-mounted installation.

System overview DCS repeater

In repeater mode two line segments are interconnected so that the number of devices and cable range of a video or audio door communication system can be doubled. The DCS repeater counts as one device in each of the two line segments.
Gira DCS repeater
The DCS repeater is the ideal solution for buildings with many residential units and long cable lengths. By means of an audio/video control device as an additional power source, it amplifies the audio and data signals of the door communication system in both directions. Moreover, the outgoing video signal is amplified. The DCS repeater can be utilised in two different operating modes. In “repeater mode” two line segments are interconnected so that the number of devices and cable range of a door communication system can be doubled. In “multi-conversation mode” the complete system can be subdivided into one main line with up to five ancillary lines and interconnected via the DCS repeater. In this way, more than one conversation can be conducted at the same time within an overall system.

Gira video multiplexer
The video multiplexer bundles the video signals of door stations, DCS-camera-gateways and DCS-IP-gateways. A video multiplexer can bring the video signals from three cameras together. Using two video multiplexers, the video signals from up to five devices can be brought together. If external cameras should also be integrated in the Gira door communication system, the required DCS-camera-gateways must be “looped through”.

Gira video distributor
The video distributor distributes the video signal of the door stations, DCS-camera-gateways, and DCS-IP-gateways to the home stations. It is required when the cable routing in the door communication system is carried out as a branch line. The video distributor is cascadable. A total of up to 15 video distributors and video multiplexers can be used in one system.

Gira video amplifier
The video amplifier extends the range of Gira door communication systems with video function. It increases the volume of the incoming video signal to the maximum permissible bus volume and makes it available at the output. In doing so, the line attenuation from the source of the video signal to the input of the video amplifier is compensated. With a video amplifier, the cable length between the door and home station can be extended by 100 m to a maximum of 200 m.
Gira switch ranges
Award-winning design and diverse functions

Ten switch ranges, more than 75 frame variants, and more than 300 inserts in different colours and materials: The modular Gira design system offers a great range of designs and functions. In addition to switches and socket outlets, numerous other functions can be integrated, such as door intercoms or KNX push button sensors.
### Gira Design Configurator

The entire Gira design system at a glance

With the Gira Design Configurator, diverse frame variants from the Gira switch ranges can be combined individually with various functions from the Gira product range. For more information, please visit: [www.gira.com/designconfigurator](http://www.gira.com/designconfigurator)

<table>
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<tr>
<th>Gira Esprit glass</th>
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<th>Gira F100</th>
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<tr>
<td>Glass black/colour aluminium</td>
<td>Series 20</td>
<td>Pure white glossy/pure white glossy</td>
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<tr>
<td>Glass umber/cream white glossy</td>
<td>Series 21</td>
<td>Colour platinum/pure white glossy</td>
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<td>Glass mint/colour aluminium</td>
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<td>Brass/pure white glossy</td>
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<td>Art chrome-black/chrome</td>
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<td>Brass/brass</td>
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<td>Art brass/brass</td>
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<tr>
<td>Bronze/brass</td>
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<tr>
<td>Art bronze-cream white/bronze</td>
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<th>Gira E22</th>
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<tr>
<td>Stainless steel</td>
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<td>Thermoplastic (pure white glossy)</td>
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For more information, please visit: [www.gira.com/designconfigurator](http://www.gira.com/designconfigurator)
More about Gira: Additional information about Gira and the Gira products can be found at www.gira.com.

www.gira.com
The Gira website provides you with information on the company and the entire Gira product range. The Gira products are presented with illustrations, a brief description, function and design examples and detailed technical specifications. Our extensive download area offers brochures, manuals, operating instructions, etc. for download.

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