

Installation and  
Operating Instructions

**Control 19**  
2088 00

**GIRA**



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## Safety instructions

Installation and mounting of electrical devices may only be carried out by qualified electricians.

Failure to observe the instructions can result in damage to the device, fire or other dangers.

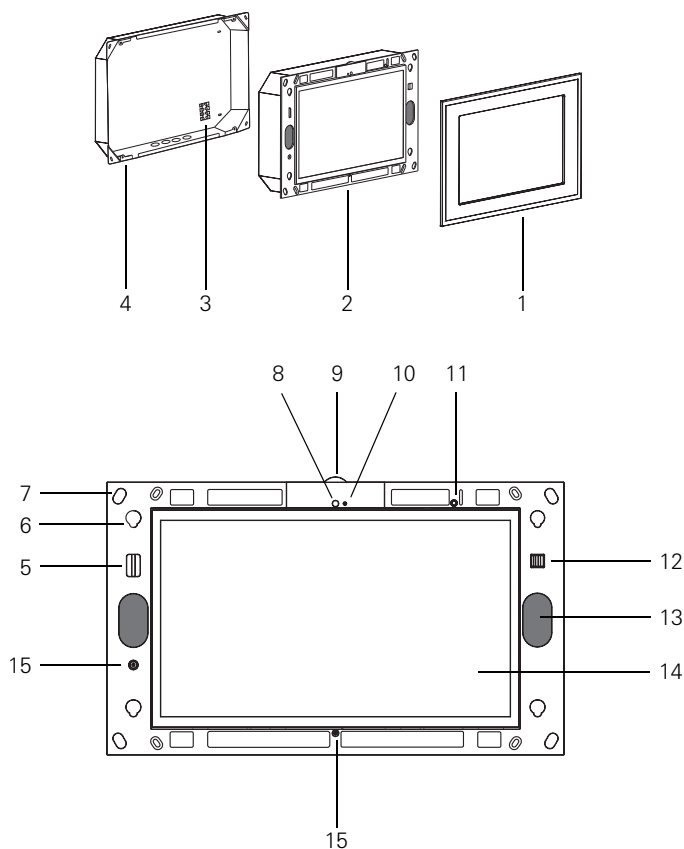
**Danger of electric shock. Isolate before working on the device. Take account of all circuit breakers supplying dangerous voltage to the device.**

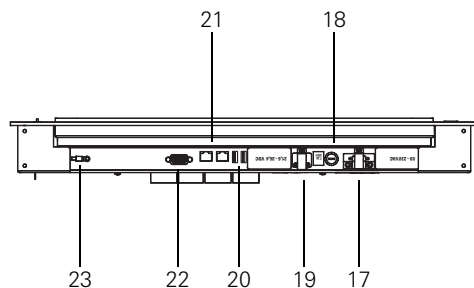
Do not operate the device with sharp objects. This may damage the touch-sensitive surface.

Do not use sharp objects, acids or organic solvents for cleaning. These may damage the device.

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

## Device design





- |    |                               |    |                             |
|----|-------------------------------|----|-----------------------------|
| 1  | Design frame                  | 13 | Loudspeaker                 |
| 2  | Control 19 Client             | 14 | Touch screen surface        |
| 3  | Connection terminal           | 15 | Microphone                  |
| 4  | Flush-mounted box             | 16 | On/off button               |
| 5  | SD card holder                | 17 | 230 V AC connection         |
| 6  | Mount for design frame        | 18 | Fuse                        |
| 7  | Mounting holes                | 19 | 24 V DC connection          |
| 8  | Camera                        | 20 | 2 x USB connections on rear |
| 9  | Camera cover                  | 21 | Network connection          |
| 10 | Camera operational indication | 22 | VGA connection sub D        |
| 11 | Status LED                    | 23 | Earth connection            |
| 12 | 2 x USB connections on front  |    |                             |

## Function

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### Proper use

- Visualisation of building information together with suitable software
- Flush-mounted installation in indoor areas

### Product features

- Illuminated programmable TFT graphic colour screen, 1366 × 768 pixels, 16.7 million colours
- Windows Embedded POSReady 2009 operating system
- Touch screen, operation via touching with finger directly on screen
- 24 V DC or 230 V AC power connection
- Horizontal installation position
- Integrated camera, can be shaded
- Integrated loudspeaker and microphone

### Windows embedded POSReady 2009 operating system

The operating system is based on Microsoft® Windows® XP Professional in a save-optimised version. All components required for device functionality are pre-installed. Further drivers and programs, e.g. the Gira QuadClient software package DCS Communicator can be installed subsequently if required.

## Operation

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### Cleaning the touch screen

The touch screen requires regular cleaning to ensure optimal touch sensitivity. Keep the screen free of dust and foreign bodies. Use a soft, lint-free cloth for cleaning the screen. Lightly dampen the cleaning cloth if required.



#### Note

- Do not use sharp objects, acids or organic solvents.
- Do not let moisture enter the device. Do not spray the cleaning fluid directly onto the screen surface.
- Do not use any sharp objects for cleaning.

### Removing the design frame

Specific operating elements only become accessible after the design frame is removed.

- Grip the design frame on the sides with both hands (1).
- Carefully push the design frame upwards.
- When the design frame lies loosely in the mount (6), remove carefully from the wall.

### Mounting the design frame

- Insert the design frame into the mounts (6).
- Carefully pull the design frame downwards.



## Switching on

The design frame (1) has been removed, the on/off button (15) is accessible.

- Switch on: press the button (15)  
The operating system starts up.
- Switch off: briefly press the button (15).  
or
- Press the "Start" button and select the "Shutdown" command in the start menu. In the list field that then appears, select "Shutdown" again and press the "OK" button.  
The operating system shuts down and switches off.



### Note

In state of delivery, the device automatically logs in with the user name **Control** and the password **gira**. Further users can be added and settings can be modified in the system at any time.

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## Resetting

When Control 19 is no longer operational, for example following a program crash, it can be reset and switched off. In this case all data not saved is lost.

The design frame (1) has been removed, the on/off button (15) is accessible.

- Press the button (15) for approx. 5 seconds.  
The device switches off after approx. 5 seconds.

## Touch-sensitive surface

The screen has a touch-sensitive surface known as a touch screen. Operation of the Control 19 is carried out by touching the screen surface with a finger or with a special touch screen pen (not included in the scope of supply).



### Note

Do not touch the screen with sharp objects.

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## Graphic interface

Operation is with a mouse pointer that follows the operation of the touch screen. Short operations of the screen are interpreted as pressing a mouse button. The mouse button can be switched over by activating the symbol in the info area of the task bar. Input of text can be carried out with the Windows screen keyboard.

In the state of delivery, programs have been pre-installed on the desktop. These are for activating/deactivating the mouse pointer, calibrating the touch screen and switching over the mouse buttons.



### Note

Operating devices such as a keyboard or mouse can be connected at any time via the USB interface.

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## File-based writing filter

The device has a solid state drive (SSD) as mass storage device. In order to prevent unauthorised modifications to the configuration, the drive is protected with a file-based writing filter (FBWF). Writing operations to the protected area are redirected to a virtual drive in the RAM. Modifications to the data are displayed in the directory, but these only exist until the next restart of the device. Previous data are restored if the device is switched off or in cases of power failure.

Modifications in the "My Documents" directory are not write-protected and are always saved.

The writing filter must be deactivated when

- directories are created that should also exist after a restart.
- programs are to be installed.

the system must be restarted.

- the writing filter is activated/deactivated.
- the capacity of the virtual drive is modified.
- the drive compression is activated/deactivated.

The settings for the file-based writing filter can be modified by the user.

## Installing programs

- Deactivate the writing filter: select the symbol with the mouse pointer.
- Select the menu item "Write protection". The window for the writing filter settings opens.
- Deactivate the write protection.
- Click on the "Accept" button.
- Click on the "Close" button.
- Shut down Control 19 and restart.
- Install the program, e.g. from a USB stick.
- Activate the writing filter: select the symbol with the mouse pointer.
- Select the menu item "Write protection".
- Activate write protection.
- Click on the "Accept" button.
- Click on the "Close" button.
- Shut down Control 19 and restart.

## Updating the operating system

- Download the manufacturer's update and save to an SD card, USB stick or similar storage device.
- Insert the storage device into Control 19.
- Start the installation and follow the instructions on the screen.

## Installation and electrical connection



### **DANGER!**

Electric shock if live parts are touched.

Electric shock may lead to death.

Isolate all appropriate circuit breakers before working on the device.

Cover up live parts in the vicinity!

## Connecting and installing the device

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### **Note**

Mount at eye level for optimal reading.

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Ensure sufficient cooling. Do not cover up ventilation slots.

- Mount the flush-mounted box horizontally in the wall.
- 



### **Note**

Observe the mounting instructions for the flush-mounted box.

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- Feed the connection cable and network cable through the grommets intended for this.



### **DANGER!**

Electric shock if live parts are touched! Mains voltage and low voltage are in one housing. In case of a fault other connected components may also carry mains voltage.

Electric shock may lead to death.

Always secure the mains voltage wires with the included sheath.

Route cables so that low voltage wires are dependably protected against mains voltage.

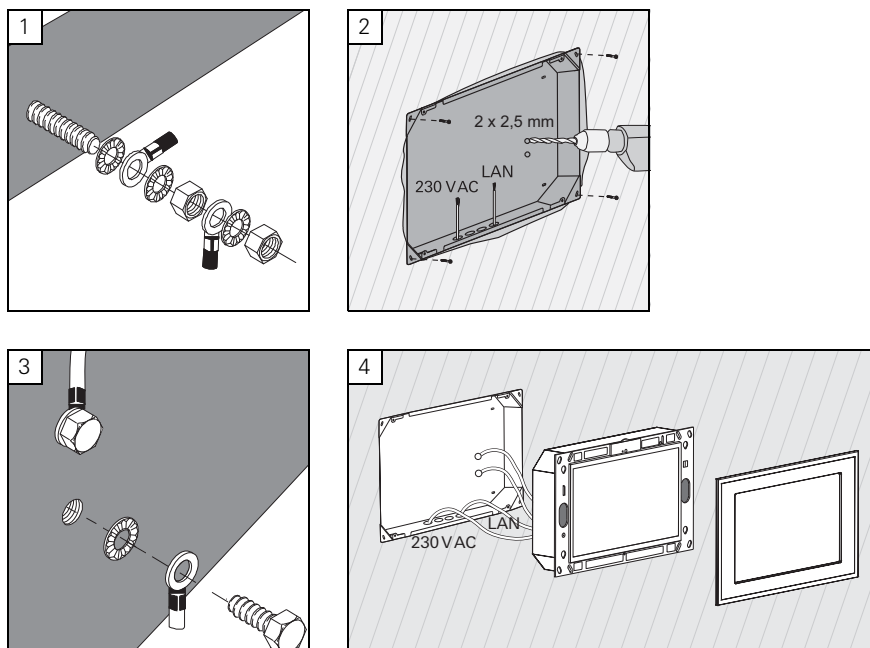
### With 230 V AC installation

- Check whether the safety catch has been removed from the 230 V AC (16) connection and is attached to the 24 V DC (18) connection.
- If necessary, remove the safety catch from the 230 V AC connection and attach to the 24 V DC connection.
- Strip the mains voltage cable to the length of the included sheath.
- Pull the included sheath over the stripped mains voltage wires.
- Connect the 230 V AC mains connection cable to the connection terminal (3) in the flush-mounted box.
- Connect the device connection cable to the connection terminal (3) and to the 230 V AC connection (16) of Control 19.
- Connect the network cable to the terminal (20) of Control 19.
- Mount Control 19 into the flush-mounted box. Use the included screws for this.
- Insert the design frame into the intended mounts and carefully pull down.

### With 24 V DC installation

- Check whether the safety catch has been removed from the 24 V DC (18) connection and is attached to the 230 V AC (16) connection.
- If necessary, remove the safety catch from the 24 V DC connection and attach to the 230 V AC connection.
- Connect the 24 V DC connection cable to the connection terminal (3) in the flush-mounted box.
- Connect the device connection cable to the connection terminal (3) and to the 24 V DC connection (18) of Control 19.
- Connect the network cable to the terminal (20) of Control 19.
- Mount Control 19 into the flush-mounted box. Use the included screws for this.
- Insert the design frame into the intended mounts and carefully pull down.

## Retrofitting the earth connection for the flush-mounted box of the Gira/Pro-face ServerClient 15



### Installation and electrical connection



#### **DANGER!**

**Electric shock if live parts are touched.**

**Electric shock may lead to death.**

**Isolate all appropriate circuit breakers before working on the device.**

**Cover up live parts in the vicinity!**

The flush-mounted box for the ServerClient 15 has no earth connection and is therefore not suitable for connection of a Control 19 with 230 V. An earthing set is included for retrofitting this flush-mounted box.

- Secure both earthing wires to the earthing connection of Control 19 (figure 1).
- Drill two  $\varnothing 2.5$  mm holes into the rear wall of the flush-mounted box (figure 2).
- Fasten both earthing wires to the flush-mounted box (figure 3).
- Connect the 230 V AC mains connection cable to the 230 V AC connection (16) of Control 19.
- Connect the network cable to the terminal (20) of Control 19.
- Mount Control 19 into the flush-mounted box (figure 4). Use the included screws for this.
- Insert the design frame into the intended mounts and carefully pull down.

### Calibrating the touch screen

The touch screen should be calibrated so that the cursor can optimally follow finger movements. The calibration program is found via the icon on the desktop.

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#### Note

Before starting calibration, assume a position from which operation is carried out. Do not change this position during the calibration process.

Only carry out calibration with mounted design frame.

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- Start the program and follow the program instructions.

## Technical data

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|                                          |                                     |
|------------------------------------------|-------------------------------------|
| Power supply                             |                                     |
| Rated voltage AC                         | AC 100 to 230 V~<br>50 / 60 Hz      |
| Rated voltage DC                         | DC 24 V                             |
| Micro-fuse                               | T 2 A L 250 V                       |
| Standby power                            | approx. 3 W                         |
| Power consumption (100% CPU)             | max. 39 W                           |
| Power consumption (display switched off) | approx. 25 W                        |
| Ambient conditions                       |                                     |
| Ambient temperature                      | 0 °C to +40 °C                      |
| Storage/transport temperature            | -20 °C to +60 °C                    |
| Relative humidity                        | 10 to 85% r.H.<br>(no condensation) |
| Protection type                          | IP20                                |
| System                                   |                                     |
| Processor                                | Intel® Atom™<br>N270                |
| Processor clock                          | 1.6 GHz                             |
| L2 cache                                 | 512 kB                              |
| System chip set                          | Intel® 945GSE                       |
| Mass storage device                      | 4 GB CF                             |
| RAM                                      | 1 GB                                |
| Audio controller                         | Realtek ALC662                      |
| Display                                  |                                     |
| Type                                     | TFT 47.0 cm<br>[18.5"]              |
| Resolution                               | 1366x768 WXGA                       |
| Number of colours                        | 16.7 million                        |
| Angle of viewing                         | 170° (H)<br>160° (V)                |
| Camera                                   |                                     |
| Resolution                               | 1.3 million pixels                  |
| Memory card                              | SDHC to 32 GB                       |

|                         |                                       |
|-------------------------|---------------------------------------|
| USB                     |                                       |
| USB version             | 2.0                                   |
| Connection              | 2 x type A, rear<br>2 x type A, front |
| Network                 |                                       |
| Type                    | Gigabit ethernet                      |
| Connection              | 2 x RJ45 socket                       |
| Dimensions              |                                       |
| Dimensions L x W        | 330 x 546 mm                          |
| Screen dimensions L x W | 230 x 410 mm                          |



## Accessories

|                                |         |
|--------------------------------|---------|
| Flush-mounted box              | 2076 00 |
| Design cover plate/cover frame | 2090 .. |

## Warranty

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The warranty is provided in accordance with statutory requirements via the specialist trade.

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade).

They will forward the devices to the Gira Service Center.





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