

(GB) instructions Indoor station video comfort wall mounted 2wires

REA65.X REA66.X REA65.S

# Safety instructions

Electrical equipment may only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, guidelines, regulations, directives, safety and accident prevention regulations of the country.

When installing and laying cables, always comply with the applicable regulations and standards for SELV electrical circuits.

These instructions are an integral component of the product and must be retained by the end

#### Design and layout of the device

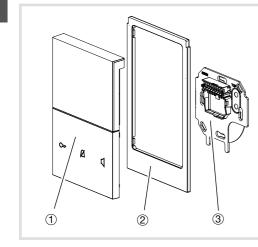


Figure 1: Design and layout of the device

- 1 Indoor station (application module with display and control unit)
- 2 Design frame, large version (only with REK...X included in scope of delivery)
- 3 Supporting plate with connection terminal

## Function

The indoor station VIDEO is a device for the 2-wire bus system. It can communicate with door stations and further indoor stations in sound and image and unlock door releases.

#### Correct use

- For surface-mounting on a flat surface or for mounting on a wall box according to DIN 49073
- Only suitable for use in indoor areas with no drip and no spray water
- Not suitable for video monitoring
- Not compatible with intercom systems of other manufacturers

# Product characteristics

- Illuminated 3.5" TFT colour display
- Touch control panel with 3 illuminated symbol buttons and 3 menu operation buttons
- Slide control surface for menu access
- Menu in 5 languages
- Ring tone volume and microphone sensitivity can be adjusted
- Hands-free or Push-to-Talk
- 16 ring tone melodies, individually assignable
- Connection for storey bell push-button
- Storey call forwarding
- Parallel operation (a total maximum of 3 identically addressed indoor stations)
- Internal calls to other indoor stations
- Camera can be switched on manually
- Light relay contact of the bus line power supply controllable

#### Operation

#### Display elements and operating concept (Figure 2)

The indoor station video has a display (4) for displaying camera pictures and the device menu.

The underlying control panel has 6 buttons and a slide control surface. Each of the 6 buttons on the control panel corresponds to a touch-sensitive surface. To trigger its function, it needs a push-button press with tactile feedback. The touch-sensitive slider (10) responds to horizontal swiping movements.

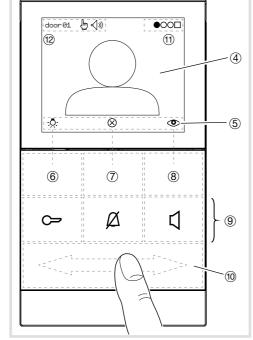


Figure 2: Operating and display elements

- Display
- three menu operation buttons (6, 7) and 8)
- Menu operation buttons (Softkeys) (Table 2)
- (10) Menu slider for menu access and page

Symbol battons for main functions			
$\hookrightarrow$	Door release button	Unlock door	
	liahts un	Door can be unloc	

	button	
	lights up	Door can be unlocked
Ø	Mute button	Mute ring tone
	flashes	Ring tone muted
4	Speech button	Accept call, End call
	flashes	Incoming call
	lights up	Call in progress

acoustic feedback after actuation 3 short tones = function not available).

# Switching on device/activating display

- Press any menu operation button (6, 7) or
  - If the device has been configured for internal calls, the menu page special functions appears instead of the start page. During an incoming call, the device switches on automatically.

# Menu operation buttons (Softkeys) and icon bar

The functions displayed in the icon bar (5) are triggered with the menu operation buttons (6),(7),(8) (Table 2).

Softkey	Symbol	Function	
	- <u>,</u> Ō,-	Switch on light <sup>1), 3)</sup>	
	V	Selection/scroll down	
6	-	Setting/decrease value	
	<	Return <sup>4)</sup>	
	8	Switch off display (Stand-by)	
	$\wedge$	Selection/scroll up	
(7)	+	Setting/increase value	
	>	Next <sup>4)</sup>	
	•	Switch on/select camera <sup>2), 3)</sup>	
<b>(a)</b>	区	Confirm selection	
8	OK	Apply the setting	
	$\ominus$	Remove <sup>4)</sup>	

- Icon bar displays the current assignment of the

- (9) Symbol buttons illuminated, with fixed functions (Table 1)
- (1) Menu position display ○●○□ (Table 3)

#### Symbol buttons for main functions

yıııbı	חוו וטו פווטווט וע	ani functions
$\supset$	Door release button	Unlock door
	lights up	Door can be unlocked
Ø	Mute button	Mute ring tone
	flashes	Ring tone muted
4	Speech button	Accept call, End call
	flashes	Incoming call
	lights up	Call in progress

Table 1: Symbol buttons with LEDs

In addition, the symbol buttons do give an 1 acknowledge tone = function available;

The indoor station is in standby mode.

- An acknowledge tone sounds and the display is initialised. After a slight delay, the start page with a light : ♠ and switch off symbol ⊗ appears on a black background or with a video image depending on the configuration (manual on).

# Application 1: Door call

Softkey	Symbol	Function
	- <u>,</u> Ō,-	Switch on light <sup>1), 3)</sup>
	V	Selection/scroll down
6	-	Setting/decrease value
	<	Return <sup>4)</sup>
	8	Switch off display (Stand-by)
	$\wedge$	Selection/scroll up
(/)	+	Setting/increase value
	>	Next <sup>4)</sup>
	•	Switch on/select camera <sup>2), 3)</sup>
<b>(a)</b>	凶	Confirm selection
8	OK	Apply the setting
	$\ominus$	Remove <sup>4)</sup>
requires a corresponding installation		

- 2) requires a corresponding default setting
- with acknowledge ton
- 4) associated with image memory

# Menu access and page change

The menu consists of 4 to 6 pages depending on the activated special functions and service functions. You access and toggle with the menu slider (10) by swiping your finger horizontally on the touch-sensitive surface (Figure 3).

Table 2: Menu operation buttons (Softkeys)

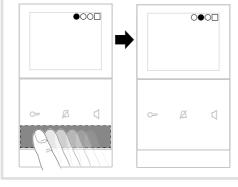


Figure 3: Menu page change

#### The menu position display (1) shows the current Mute ring tone \( \mathcal{\infty}

position during the page change.

○●○○○□ | special functions<sup>5</sup>

audio settings

service<sup>5)</sup> (expanded settings)

no problem (save/load settings.)

Table 3: Menu pages overview

Outside on the door station the assigned call push-

- The ring tone melody for door call sounds.

- The LED ♥ flashes and the LED ◯ lights

- If a camera is installed, the display shows

the video image of the calling door station.

In the upper left (12) door appears with ad-

The indoor station signals a door call for

The LED \( \mathbb{I} \) lights up permanently. The call con-

nection is established (max. call duration 3 min-

utes). The () symbol appears in the display.

The indoor station signals a door call:

dress, e.g. door 01.

max. 90 seconds.

■ Press speech button <</p>

terminated

Open door 🗁

unlockina.

accordingly

line power supply with relay.

The display shows the start page.

■ Press menu operation 👨 button ⑥. The light is switched on<sup>1)</sup>. 1) requires a corresponding installation

Switch on light .O.

Accepting door call and establishing call

A call to the door station is established.

■ To end the call, press the speech button <

Call connection and video connection are

■ Press the button to activate the door

The door of the calling door station is unlocked

and can be opened. An ongoing call is terminat-

ed automatically approx. 10 seconds after the

Direct door release: In systems with

The light (e.g. stair light) can be switched on if the

only one door station, the door can be

unlocked even without a preceding door

call if the door station has been configured

○○○●○○□ video settings

○○○○○□ image memory<sup>5)</sup>

5) lockable; only appears if activated

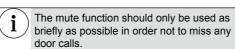
**(( )** 

button is pressed

●○○○○□ (start page)

The ring tone can be muted if necessary. The indoor station is in standby mode.

- Press the mute \( \mathbb{D} \) button. The LED A flashes. The ring tone melody is deactivated.
- Press the mute \( \mathbb{D} \) button once again. The LED \( \mathbb{\overline} \) goes out. The ring tone melody is reactivated



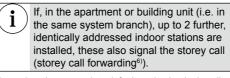
# **Application 2: Storey call**



If the storey bell push-button connected to the indoor station is pressed, a storey call is signalled:

The ring tone melody for the storey call sounds on the indoor station.

The display shows: storey door



requires the appropriate default setting by the installer (see setting operating modes)

# Settings

On the menu pages 3 to 7 (Table 3) individual settings can be made

# **Changing settings**

- The device is switched on.
- With the menu slider (10) load the required menu page by swiping repeatedly (Table 3). ■ Press V / ∧ menu operation buttons to select
- the parameter to be changed and confirm with ■ With the menu operation buttons +/- perform the desired settings (stepwise or hold down the
- Press OK to apply the settings.

# Save/load settings

On the **no problem** OOOO menu page press save settings to save the individual settings and press load settings to reload them at a later



associated automatic light is connected to the bus ■ Select the desired option with V / ∧ and confirm with [√

# A prompt appears:



- Press V to select the action again and press OK to execute it.
- Press OK to cancel the action.



# **Display Settings**

#### Selecting language

The menu language is preset to English at the factory. Under video settings it can be changed. ■ To switch on the device, press any Softkey (⑥),

- (7) or (8), if this has not yet been done. On the menu slider (10) swipe twice from right
- The video settings ○○○●○□ menu page appears.



■ Confirm language with 
✓

The list of available languages is displayed.

select the language and confirm with **OK**.

#### Set display

In idle mode (display switched on, no call) under video settings OCO●OC□ only the language Selecting and assigning ring tone melodies can be selected at first. If a camera picture is shown in the display, then the contrast, brightness and colour of the display can also be adjusted incrementally.



- $\blacksquare$  Press  $\bigvee / \bigwedge$  to select the parameter to be changed and confirm with ☑.
- Press +/- to perform the desired settings and press OK to apply them.

# Audio settings

Under audio settings ○ ● ○ □ the ring tone volume and microphone sensitivity can be adjusted. Here too, ring tone melodies can be selected and assigned to calling stations.



In hands-free mode, the change-over between listening and speaking takes place automatically depending on the volume. The change-over behaviour behaviour can be optimised by adjusting the microphone sensitivity. As a result, the influence of background noise in the area of the indoor station can be reduced.

The adjustment can best be performed during an active call Under audio settings select the microphone

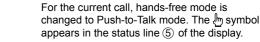
- Adjust the microphone sensitivity incrementally
- with +/-Press OK to apply the settings.

# **Activating Push-to-Talk**

In Push-to-Talk mode the change-over between listening and speaking takes place manually with the speech button.

Keep pressed	Speak	(c d
Release	Listen	₽√»

button pressed for more than 2 seconds.



# To end the call, press the softkey (x).

# You can choose from 16 different ring tone melo-

dies. Individual ring tone melodies can be assigned for door calls, storey calls and internal calls. The indoor station creates a *ring melody* entry for each calling station or for the connected storey push-button when an incoming call is received for the first time. The assigned melody can be loaded and changed via this entry under audio settings.

- $\blacksquare$  Press  $\bigvee / \bigwedge$  to select the *ring melody* entry (e.g. ring melody door x1) and confirm with  $\square$ . The melody assigned to the station sounds.
- the melody sounds that you wish to use. Press OK to assign the ring tone melody.
- Afterwards, another call event can be generated, e.g. storey call, and a separate ring tone melody can be assigned to this

according to the same procedure.

# Increasing/decreasing ring tone volume Under audio settings the ring tone volume can

also be adjusted in 3 levels.

# Information for electricians

# Addressing and pre-settings

The device addressing and setting of the operating modes must already be carried out prior to installation using the rotary switch and DIP-switch on the back of the device (Figure 4).

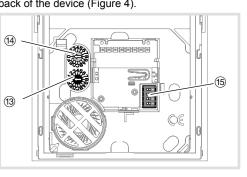


Figure 4: Rear view of the control unit (13) Address rotary switch (black) for group ad-

- (4) Address rotary switch (blue) for intercom
- device address (15) DIP-switch for operating modes
- Addressing the device

The indoor station can be addressed quickly and easily using both address rotary switches (13), (14). The address to be set is 2-digit, comprising group address and intercom device address. It must be identical with the address of the associated call push-button on the door station. Figure 5 shows the structure of the address by way of example:

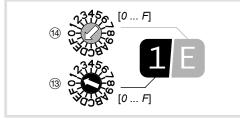
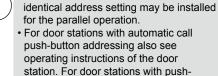


Figure 5: Example address "1/E"

- On the black rotary switch (13) set the group address [0 ... F] on the black rotary switch (5).
- On the blue rotary switch (14) set the intercom device address [0 ... F].



• A maximum of 3 indoor stations with the

button interface/expander see operating

# ■ Listen to other ring tone melodies with +/- until Setting operating mode

**Switch** Function (Factory setting = *OFF*)

■ Set the DIP-switch for operating modes (15) according to Table 4.

OFF Hands-free mode: automat. Half duplex,

instructions of the interface.

	1		switchable to Push-to-Talk via speech button
	ľ	ON	Push-to-Talk: manual half duplex speech mode, set permanently
		OFF	Storey call forwarding blocked
	2	ON	Storey call forwarding to max. 2 indoor station with the same address in the same branch
	3	OFF	Menu service available
	3	ON	Menu service blocked, is not displayed
	4	OFF	Normal operation, no parallel call to intercom device address 0
	4	ON	Parallel call to intercom device address 0 with identical group address

Table 4: DIP-switch settings

# Installation and electrical connection

The supporting plate (3) must be mounted on the wall before wiring.

# Mounting the supporting plate

A 2-wire bus cable, and if necessary, a connection cable of the storey push-button are laid to the mounting location.



■ Separate supporting element (16) on the predetermined breaking point from the supporting

For installation on a wall box (Figure 6):

- Mount the supporting element 16 onto wall box so that the smooth surface is pointing straight ahead and the outer cable tie mounts (7) are lying on the screw domes of the wall box.
- Pre-align supporting element with 2 screws.

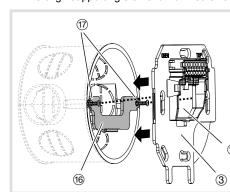


Figure 6: Installation on a wall box

- (16) Supporting element
- (17) Cable tie mounts
- (18) Opening to the cable bushing

For surface-mounting without wall box:

- Mark the fixing holes with supporting plate 3. Observe alignment marks.
- Drill fixing holes and insert dowels.

### For both installation modes:

- Run the stripped 2-wire bus cable through the middle opening ® of the supporting plate.
- storey push-button through
- Mount the supporting plate ③ onto the wall or the wall box with at least 2 screws. Observe alignment marks.

#### Connect device

Figure 7 shows a schematic view of the connection from the video indoor stations to the bus line power

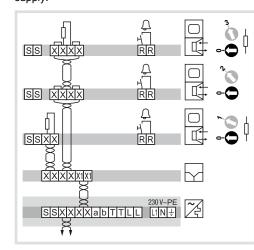


Figure 7: Connection to bus line power supply

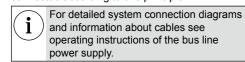
Indoor station VIDEO

Video distributor 2gang

Bus line power supply

Wrapped wire pair for 2-wire devices (recommendation: white/yellow wire pair)

Additional audio and video indoor stations can be connected according to this principle.



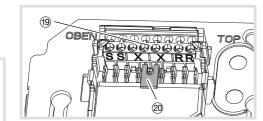
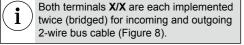


Figure 8: Connection terminal block

- Connection terminal block
- 20 Terminating resistor/terminator Connect the stripped wires of the 2-wire bus
- cable to the connecting terminals X/X.



- If the indoor station is not the last intercom device in the branch/line, then remove the terminating resistor/terminator 20 from the terminals X/X
- Connect the associated storey push-button to the connecting terminals R/R.

The terminals S/S are used for connecting the additional infeed, if necessary.

#### Mounting indoor station (display & operating unit) (Figure 9)

■ Also run the connection cable of the associated ■ Mount design frame ② in correct position on the back of the cover.

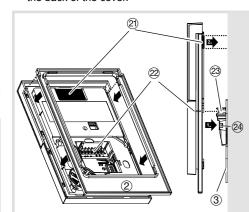


Figure 9: Installation

- Velcro fastening (optional)
- 2 Pin header of the operating unit
- 23 Cable connector of the connection terminal
- 24 Locking hook
- For installation on smooth walls the Velcro fastening (21) may be used. To do this, remove

When using the Velcro fastening the surface must be clean and free of dust .. Do not use on sensitive wallpapers or on badly adhering surfaces.

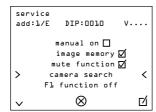
Align the indoor station in such way to the supporting plate (3) that the backside pin header 22 is pointing to the cable connection of the connection terminal block 23.

Mount the indoor station onto the supporting plate and carefully press on until the locking

When using the Velcro fastening: Press indoor station above onto the wall at the height of the velcro fastening.

### Expanded settings

The service ○○○○●○□ menu page provides information about the device address, current DIP switch setting and firmware version. It also enables expanded settings.



#### Allowing/preventing manual switching-on of the camera

The video connection to the video door station is established automatically during the door call and terminated again automatically after the end of the

With the **manual on** function it is also possible to enable the camera of the door station that last called to be switched on via the indoor station without a door call.

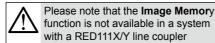
Use the keys < / > to scroll the recorded images/ If the checkmark is set, the camera symbol (0) appears at the bottom right of the start page. The camera can be switched on manually with the associated Softkey (8) If several video door stations or additional

cameras are installed in the same line, it is possible to toggle between the camera pictures by pressing **o** repeatedly.

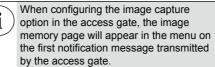


The device is not suitable for video monitoring!

#### Image memory



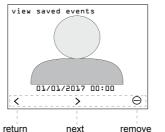
The **image memory** option will be functional when the system is connected to an "Access gate", since all image memory data are stored in this access



After the option was activated, the image memory page will appear in the menu.



The view saved events page allows to display all the images recorded and stored inside the access



Date and time of the recorded image are displayed

videos. To remove an image, use the key ⊖. The function notification activated allows informing the user that an image queued up to play

is recorded, \( \mathbb{\overline{\Omega}} \) LED lights up until the image is played. This function may be activated/deactivated The function **remove all images** allows the user

to remove all the images stored in the access gate. When selecting this function, a request for confirmation is displayed before the full data are removed

#### Authorize/prohibit the mute function

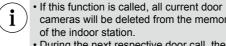
The **mute** function allows you to deactivate or activate the ring tone of call by simply pressing the key (crossed bell symbol). This function may be authorized/prohibited if desirable.



This function may be remotely activated/ deactivated via a mobile terminal when the system is connected to an "Access gate".

## Searching for cameras

The camera search function starts a search to determine all additional video cameras installed in



cameras will be deleted from the memory of the indoor station. During the next respective door call, the door cameras are then reassigned.

# Special functions

Special function Task

After selecting a function (F1 to F8), you can associate it with 8 special functions (see below) available via the "service" page (functions F1 to F8).

Parameters/information

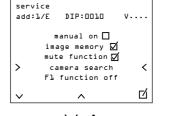
Special function	Iask	Parameters/Information
auto door release 6)	Automatic door release after pressing the call key on the outdoor plate.	Actuation time (time of opening door) 0 = 1s; 1 = 2s; 2 = 3s;;
		F = 15s
sc autom. release	Automatic door release following storey call (bell push-button con- nected to the indoor station) via a 2-wire bus relay (e.g. RED114X)	Relay activation time (time of opening door) 0 = 1s; 1 = 2s; 2 = 3s;; F = 15s
2D-relay	Activation of a 2-wire bus relay, for	Relay address 0 to F
·····,	instance to control lighting.	Operates only in its own line, and is not transmitted to the other lines via the coupler
Internal call	Allows internal calls between indoor stations having the same group	Intercom address of the other indoor station (0 to F).
	address.	Operates only in its own line and is not transmitted to the other lines via the coupler
Intern. connection	Connection between 2 indoor stations without ring tone. The 2 stations must	Intercom address of the other indoor station (0 to F).
	belong to the same group	No need to activate parallel operation withindoor stations.
		Operates only in its own line and is not transmitted to the other lines via the coupler
Door release	Allows releasing the door from the indoor station, with no prior call from	Group address of the outdoor plate (0 to F).
	the outdoor plate.	Operates only in its ownline and is not transmitted to the otherlines via the coupler
Video parallel	Makes it possible to display video on an indoor station, while an audio sta-	Intercom address of the other indoor station (0 to F).
tion has taken the call. The 2 stat must belong to the same group.		Operates only in its own line and is not transmitted to the other lines via the coupler
Internal call F	Allows internal calls to indoor stations having address group F.	Intercom address of the other indoor station (0 to F).
		Operates only in its own line and is not transmitted to the other lines via the coupler

7) This function may be remotely activated/deactivated via a mobile terminal when the system is connected to an access gate.

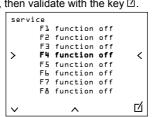
A detailed description of these functions can be found at: <a href="http://www.hager.com">http://www.hager.com</a>

#### Configuring a special function

■ Select the service page: the 8 special functions are available

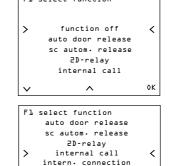


■ Use the control keys  $\bigvee / \bigwedge$  to select functions F1 to F8, then validate with the key \(\mathbb{I}\).



If no function was programmed, the 8 functions are displayed as "F1... F8 function deactivated"

After selecting a function (e.g. F1), a page F1 function selection displays the list of special functions. Select the special function desired using the keys  $\bigvee / \bigwedge$  then validate with key F1 select function



door release

functions page will be displayed in the top

video parallel internal call F After selecting the special function and the value of its parameter, the special

# Resetting to factory settings

The device software can be reset to factory settings. The DIP-switch configuration remains unchanged.

■ Under service ○○○○●○□ press ∨ / ∧ to select the load factory settings option and confirm with [√

A prompt appears:



■ Press V to select load factory settings and reset the software with **OK**.

Press OK to cancel the action.

Dimensions including 93 x 163.5 x 16 mm design frame (W x H x D)

22 ... 24 V=

≈ 12 mA

78 dB(A)

3.5"

IP 30

max. 65 dB(A)

320 x 240 px

5 °C ... 50 °C

max. 0.75 mm<sup>2</sup>

max. 220 mA

# **Standards**

Appendix

Technical data

Supply voltage **X/X** via bus

Call volume (hands-free)

Resolution of graphical display

TFT display size

Degree of protection

Operating temperature

Connecting terminal for

conductor cross-section

Current consumption (operation)

Current consumption (Stand-by)

Sound pressure level ring tone via

loudspeaker at a distance of 0.5 m

Ring tone volume (signal) according to EN 50486



Correct Disposal of This product (Waste Electrical & Electronic Equipment). (Applicable in the European Union and other European countries with separate collection systems). This marking shown on the

product or its literature indicates that it hould not be disposed with other household wasted at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes of disposal.