Product information

DCM Video indoor station
TK ISV xx x14 x

ALBRECHT JUNG GMBH & CO. KG
Volmestraße 1
58579 Schalksmühle

Telefon +49.2355.806-0
Telefax +49.2355.806-189

E-mail: mail.info@jung.de
Internet: gb.jung.de

Table of content

Information about this manual 4
Safety instructions 4
Application / Brief description 5
  Application 5
  Brief description 5
Device overview 6
Indication and operation 7
Wiring and installation 8
  General 8
  Wiring example 6-wire technique 8
  Connecting diagram 9
  Connection of wires 9
  Mounting 9
Commissioning 10
Device settings 10
  Storing the device settings 10
  Note: Programming bell buttons of the outdoor station 10
  Factory settings 11
  Starting video display depending on AS-address 11
Reloading factory settings 11
  Adjusting the function button with the service device 12
Operation 13
  Signs and symbols 13
    The Display 13
    Symbols of the touch display (Selection) 14
    Video display 14
    Signs and symbols in this documentation 15
  Communication 16
    Start communication after incoming door call or internal call 16
    Communication without incoming call 17
    Stop communication 17
    Turn off display 17
  Operation after incoming door call 18
    Video display operation 18
    Door release 19
    Light switching 19
  Volume settings 20
    Voice volume 20
    Volume voice memo 20
    Ring tone volume 20
    Ring tone OFF / ON 21
  Ring tone settings 21
    Select ring tone 21
  Function button 22
    Features of the function button 22
  Record, play or delete a ring tone 23
    Record a ring tone 23
    Play recorded ring tone 23
    Delete recorded ring tone 23
  Voice memo function 24

Record a voice memo 24
Save image 24
Play and delete voice memo, display stored pictures 25
Settings with the menu display 26
Enter text and characters 27
HOME 28
Select a camera for video monitoring 28
Display settings 28
Volume settings 29
Volume settings for voice memo 29
Memos 29
Function button: Select control functions 30
Function button: Select indoor station for an internal call 30
Function button: Other functions 30
Function button: Select call diversion 30
User parameter 31
Time and date settings 31
Language settings 31
Define user PIN code 32
Installer level/parameter 32
Call diversion settings 33
Control function settings 33
Internal call settings 34
Camera properties 35
Parallel function settings 36
User PIN 36
Turn off settings 36
Select function for the function button 36
Parameter: Video-Limit-AS and Audio-Limit-AS 37
Explanation of terms and definitions 38
General notes on the wiring in DCM video systems 39
6-wire operation 39
Principle of loop resistance 40
Measuring loop resistance 40
Technical Data 40
Cleaning 41
Acceptance of guarantee 41

Information about this manual

**On pages 40 and 41 you can read the "terms and definitions" of this manual.
We recommend to read these explanation carefully before you start the adjustment of the indoor station.**

Safety instructions

! Assembly, installation, and commissioning must only be carried out by a qualified electrician!

For work on systems with 230 V AC mains current the safety requirements of DIN VDE 0100 must be observed.

When installing DCM BUS systems the general safety rules for telecommunication systems in accordance with VDE 0800 must be observed:

- separate cabling for high and low voltage lines
- minimum distance of 10 cm for joint cabling arrangements,
- use of separators between high and low voltage lines in joint cable ducts,
- use of standard telecommunication cables, e. g. J-Y (St) Y with 0.8 mm diameter

! Suitable lightning prediction must ensure that a voltage of 32 V DC will not be exceeded at the DCM BUS wires a and b.

DCM = Door Communication Management

Application / Brief description

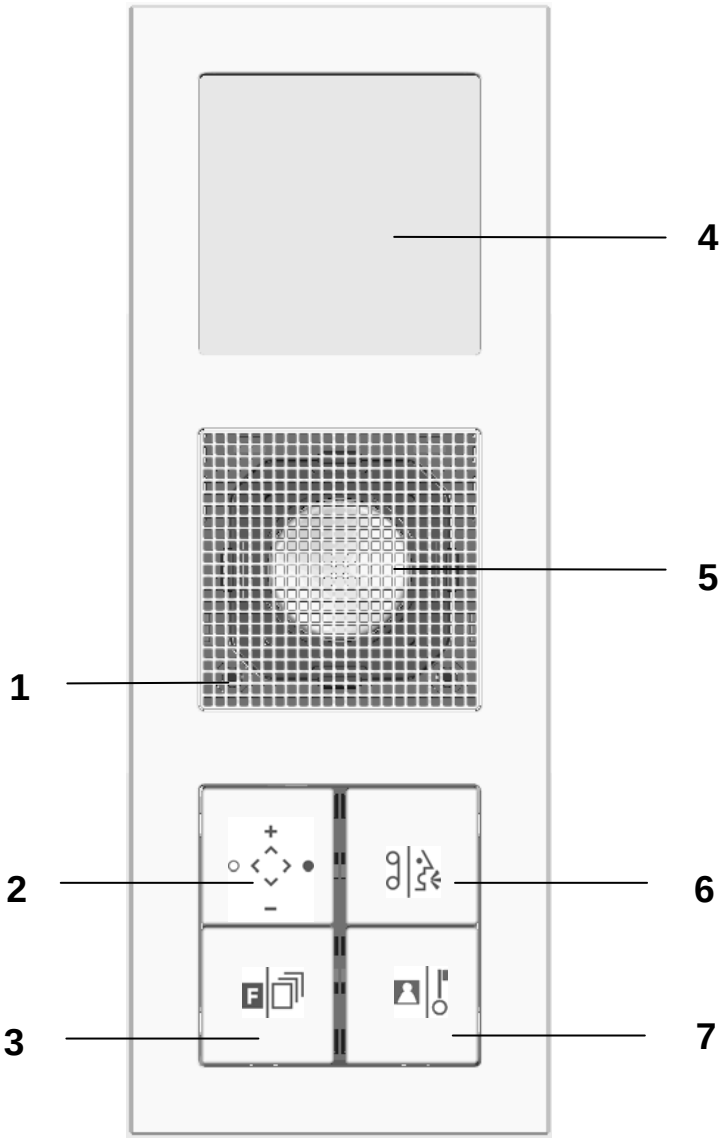
Application

- acoustical and optical indication of front door and internal calls
- hands-free communication with high audio quality (full duplex)
- door release function
- switching light
- Video functions: Display of video images of the outdoor stations and cameras

Brief description

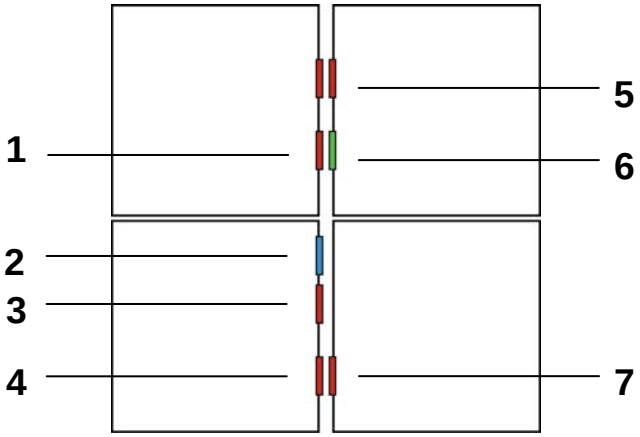
- TFT Colour display, 2.8 ", resolution 480 x 640 pixel
- complete menu navigation via touch screen, full text
  e.g.: audio settings, video settings, colour, contrast, brightness, camera selection
- released bell button at the outdoor station enables storing of image with time stamp
- large image memory
- optical zoom, scrolling of visible display area possible
- full duplex operation (noise- and line-echo-cancellation)
- hands-free communication
- internal call with automatically hands-free communication
- volume manually adjustable
- high audio quality, digital speaking quality due to active noise suppression
- Display / Door release button (to start display)
- Function button (for comprehensive setting functions)
- voice memory function for storing messages with a length up to 30 seconds
- 13 real sound ring tones (polyphone)
- 1 individual ring tone can be recorded with the internal microphone
- ring tone differentiation between main door, floor door and internal call
- sub door call: 4 bell buttons of the outdoor station can be assigned to 4 different ring tones of the indoor station
- ring tone differentiation of 2 outdoor stations
- ring tone volume manually adjustable
- ring tone mute with optical display
- parallel call can be activated
- high quality sound and great speaker dynamic
- optical indication of door calls
- integrated connection for floor door bell
- optical status indication if system is occupied (existing communication)
- audio privacy function
- automatic call cut-off
- electret capacitor microphone
- audio- and video indoor stations can be combined in the same installation
- connection: 6-wire-technique

Device overview



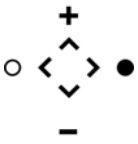
1	Microphone
2	Ring tone button / Volume
3	Function button
4	Display
5	Loudspeaker
6	Communication button
7	Display + Door release button

LED functions



1	red	Ring tone on/off
2	blue	Operation LED
3	red	Call diversion / Automatic door release active or internal call
4	red	transmitted
5	red	Programming mode voice memo / occupied
6	green	indication
7	red	Talking indication Active door release

Indication and operation

	Display with touch function	• Display for video image, menu for setting and operation of functions
	**Ring tone button**	• **Idle mode, operation mode,** short: TOP/BOTTOM: Start menu ring tone volume LEFT/RIGHT: Ring tone On/Off **Talking mode and replay voice memo recorder** short: TOP/BOTTOM:: Start menu voice volume • **Starting programming mode > Setting mode** for ring tone main door 1 and 2, internal call, floor bell ring tone – long (approx. 8 s) Sub door call – long (approx. 12 s)
	Indication LED (1)	LED on = Ring tone deactivated
	Communication button	• **Idle mode, operation mode,** short: Start hands-free communication **Hands-free communication** • Start/end of hands free communication • start video display
	Indication LED green (6) (talking indication) LED red (5) (voice memo / occupied indication)	• off: no communication • on: talking mode • flashing: incoming door call • flashing fast: communication occupied • flashing: voice memo function, new message
	Function button	**idle mode, operation mode, talking mode** short: starting menu or switching light long: start video display long, together with ring tone button: load factory settings
	Indication LED (4)	• on: Call diversion or automatic door release is activated • flashing: Internal call transmitted
	Display / Door release button	• **Idle mode, operation mode,:** Start display Video display or communication active: Door release • **Talking mode**: Door release • Start video display
	Indication LED (7)	indication for approx. 3 s after pressing the button (no indication, if light switch function is activated)
	blue LED orientation element	indication of operation mode
	Indication	illuminated, if device is active (only with 6-wire technique when P-wire is connected).

Wiring and installation

General

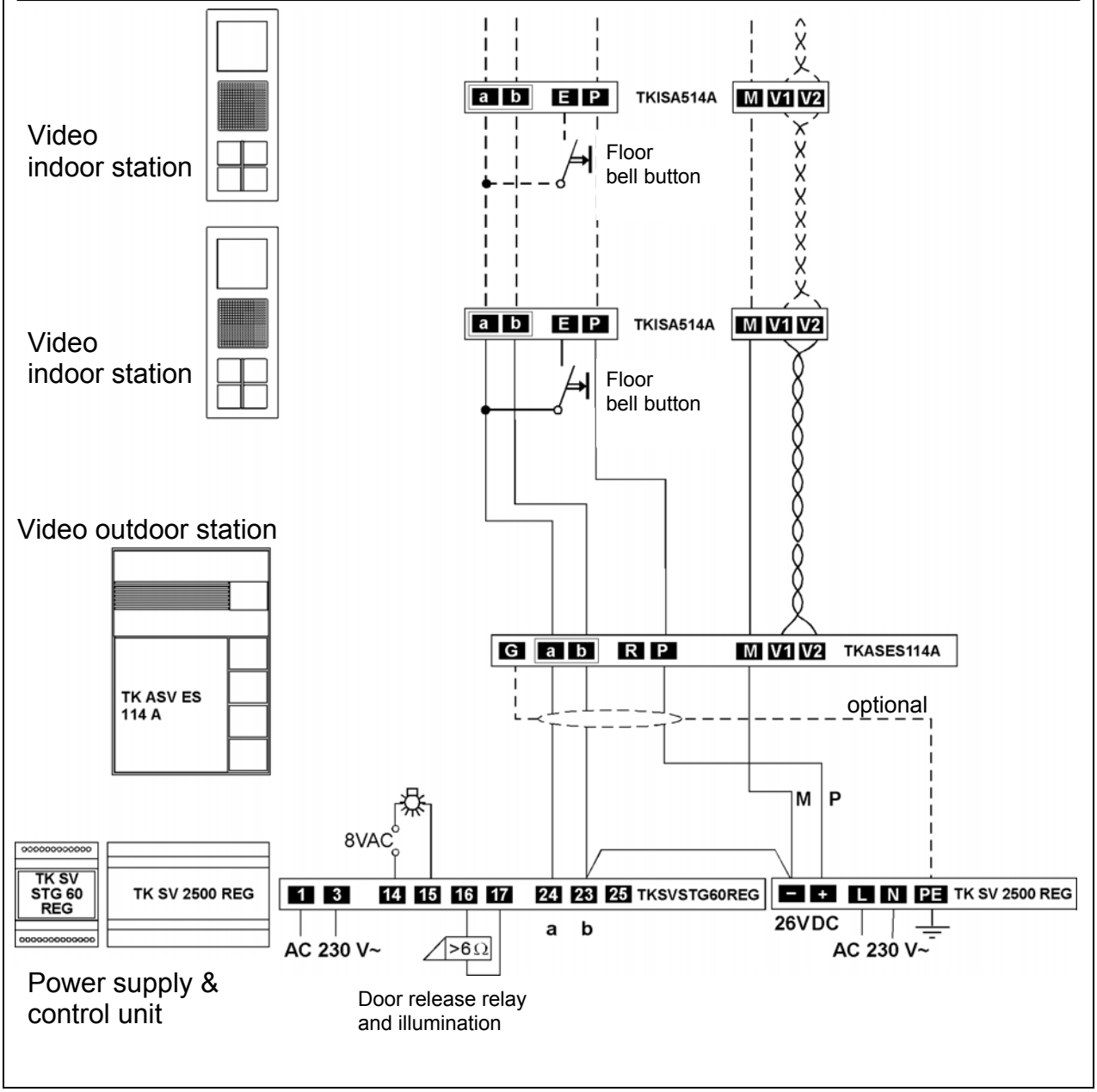
- Recommended installation into 2 flush-mounted wall boxes according to DIN 49 073

Do not over tight the plastic screws to avoid damage of the device. Install the supporting frame only onto plain surfaces . Do not paint or wallpaper the supporting frame.

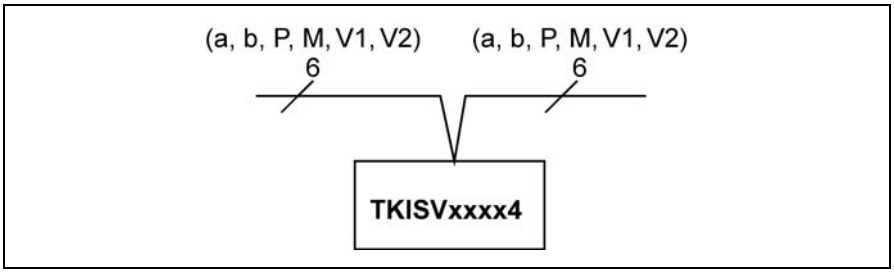
- Cable type: Standard telecommunication cables, e. g. J-Y (St) Y with a diameter of 0.6 mm or 0.8 mm.
- Connection: 6-wire-technique (See wiring example)

Wiring example 6-wire technique

The power supply units TK SV STG 60 REG + TK SV 2500 REG enable the connection of 8 indoor station + 8 parallel connected indoor station. Observe maximum output current!



Connecting diagram

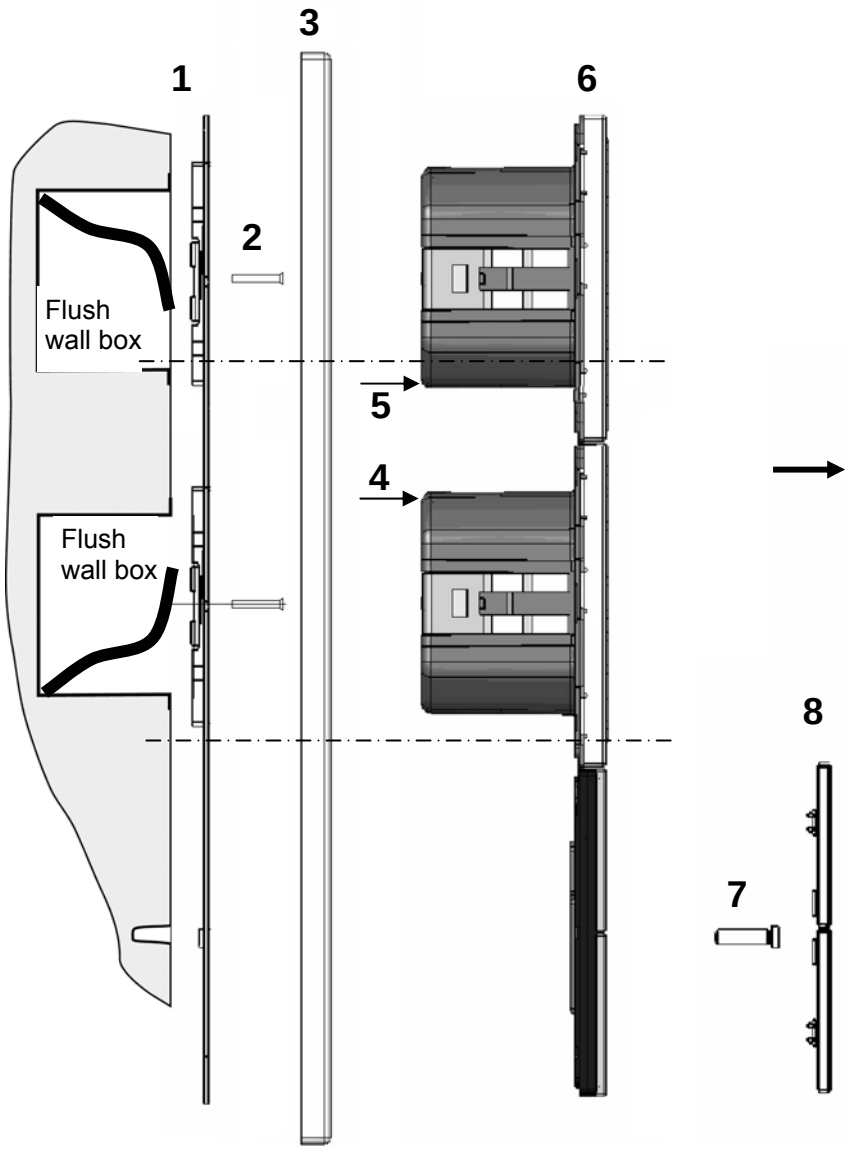


Connection of wires

- Remove the connection blocks (4 and 5).
- Connect the wires to the connection block as inscripted (A B E P and M V1 V2) on the reverse side of the device.

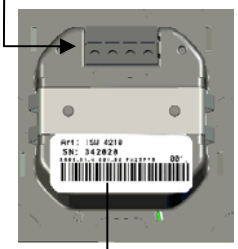
! Attention!
Disconnect the mains before mounting or dismounting the video indoor station !

Mounting



1 Supporting frame,
2 Screws for wall box,
3 Design frame,
4 Terminal A B E P,
5 Terminal M V1 V2
6 Main unit,
7 Plastic screws,
8 Cover kit

Inscription for connection terminal on the reverse side of the device



Combi label with serial number of the device

- Place the wall box according to DIN 49 073 into the wall
- For flush-mounted installation, the plastic screws (7) have to be submerged into the wall. Consider 2 drillings ø 6 x10 mm into the wall. Use supporting frame as template.
- Connect the supporting frame (1) with the delivered screws (2) onto the wall box.
- Put the design frame (3) onto the main unit (6) and plug the wired connection block onto the connection terminal (4 and 5).
- Latch the main unit (6) with the design frame (3) onto the supporting frame (1).
- Connect the main unit (6) to the supporting frame (1) with the delivered plastic screws (7). Tighten the plastic screws only finger tight.
- Clip on the cover kit (8) as shown in the device overview on page 6.

Commissioning

! ⚠ Please complete the full installation before you connect the system to the mains voltage!

- Do NOT connect V1 and V2 with the P-, M-, a- or b-wire. Even a connection for a quick moment will destroy the device.
- When connecting the video wires V1 (+) and V2 (-) observe polarity. If you can see a distorted image on the display, switch off the mains voltage and change the wires V1 and V2.

- Install all of the devices of the system completely.
- Check the a-, b-, P-, M-, V1- and V2 wires for short-circuit.
- Switch on the mains voltage.
  The following functions are available without additional programming:
  - communication from the indoor stations to the outdoor station
  - door release function
  - light switching
- Programming of the DCM system see manual of outdoor station.

Device settings

Storing the device settings

The indoor station is equipped with an EEPROM. After mains voltage failure following remains saved in the EEPROM: Selected ring tone, ring tone volume/mute, activated call diversion, internal call, automatic door release, control functions and light switching.

Note: Programming bell buttons of the outdoor station

In general the bell buttons of an outdoor station can be programmed manually.
Sub door calls have to be programmed with the service device or the commissioning software.

Factory settings

Timeout setting mode	after approx. 8 s
Indication of green LED after pushing communication button when communication is occupied	green LED flashes 3 x
Stand-by after internal call	approx. 30 s after incoming call
	approx. 30 s when the device calls and waiting for answer
Limited communication time	approx. 2 min
Display ON	80 s
Floor door release time	approx. 30 s

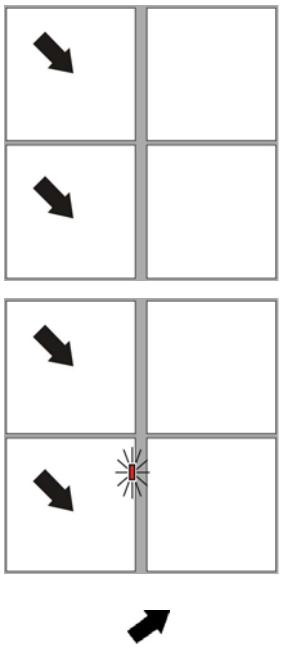
Starting video display depending on AS-address

A DCM system may contain outdoor station with and without cameras. The display of the video indoor station does not start, when the door call is triggered from an outdoor station without camera.
To assure this function, the AS-addresses are divided into 2 sections:

AS-address 0 – 31*	reserved for video outdoor stations	video display starts with door call (max.16 video outdoor stations)
AS-address from 32 *	for outdoor stations without camera	video display **does not** start with door call

**) Die AS-Video-Limit can be changed in the device or with the commissioning software*

Reloading factory settings



Attention !
All settings are reset to factory settings.

- Push ring tone button and function button (for approx. 8 s) until you can hear acknowledge tone.
- LED is illuminated for approx. 3 s

  then the LED is OFF

- The video indoor station switches into idle mode.
- release the buttons

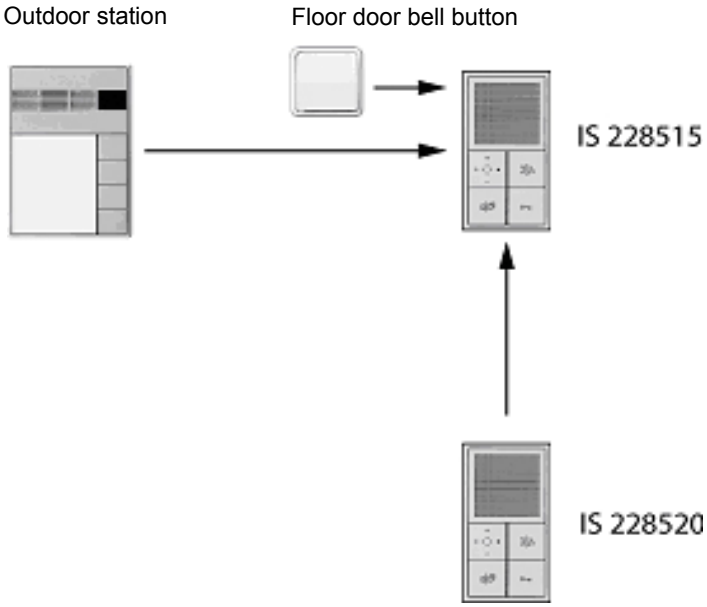
Now you can switch the **light** by means of pushing the function button.

Adjusting the function button with the service device

The initiation starts always with the key combination ***95#Ser.-Nr.#** .

Initiation	✳ 95 # Ser.-Nr. #
Call diversion	✳ 90 # Ser.-Nr. # ZielSNr. #
Automatic door release	✳ 91 # Ser.-Nr. #
Internal call	✳ 92 # Ser.-Nr. # IntSNr #
Control function 8	✳ 93 # Ser.-Nr. #
Parallel function	✳ 99 # Ser.-Nr. # ParSNr #

Example:



IS (228515) is assigned to a bell button of the outdoor station.
IS (228520) will be parallel assigned to the IS (228515).
With the following key combination IS (228520) operates parallel with IS (228515).
* 99 **# 228520 # 228515 #**

Note:
Deleting the parallel function with ParSNr = 0.
* 99 **# 228520 # 0 #**

Ser.-Nr. = Serial number of the indoor station which should be adjusted.
ZielSNr. = Serial number of the target indoor station for a call diversion
IntSNr. = Serial number of the target indoor station for an internal call
ParSNr. = Serial number of the (first) indoor station to which the additional indoor station should be assigned.

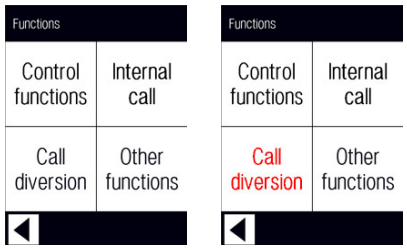
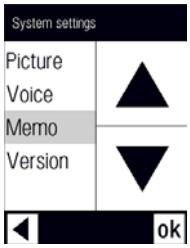
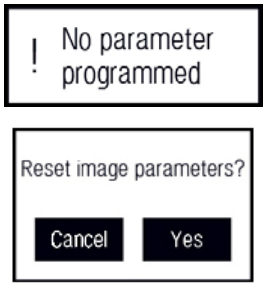
Operation

The video indoor station is equipped with a display with touch function
- to display video images (video display) and
- for operation and navigation (menu display).

Press a button of the indoor station and the respective menu appears on the display, e.g.:
- The video image appears by means of pressing the communication button.
- The menu ring tone volume appears by means of pressing the ring tone button.
- Press the function button (for approx 3 s) to start the HOME display.
  The menu navigation takes place on the touch display.

Signs and symbols

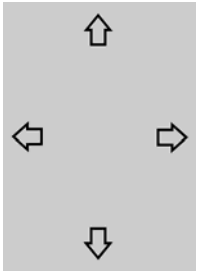
The Display

	**Menu with 4 touch button** • Headline: Menu description for orientation • Text - black: not active, can be selected - grey: not available, no parameter defined - red: activated, can be selected for deactivation
	**Menu with arrows and list with options or names** • Grey highlighted text is active or can be selected with the OK-button • If text is not highlighted, it can be selected with arrow buttons
	**Error box** • Disappear after a short time • Offer selection: Selection required

Symbols of the touch display (Selection)

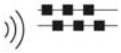
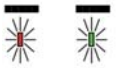
▲ ▼	Arrows for UP and DOWN: to scroll in a list of options, names, values or functions
◀	BACK to the previous menu. Settings will not be saved.
	BACK to the HOME menu. Settings will not be saved.
i	Select the HOME menu (symbol appears in the camera display) (if the symbol is red, you select the menu MEMOS)
ok	Confirm selection, accept settings
+	(volume) increase (volume) decrease
▶ ■ ● ✕	**Voice memo or ring tone recording** **Buttons:** Play, Stop, Recording, Delete **Symbol:** Red: Button is active or can be selected Black: not active, can not be selected White with green background: Action is in progress

Video display

	The video display starts automatically with an incoming door call of a video outdoor station.
	The display shows a detail of the full camera angle. With the touch arrows you can scroll to the hidden sections.
Entrance 1	Number or name of the displayed camera
12:56	Actual time

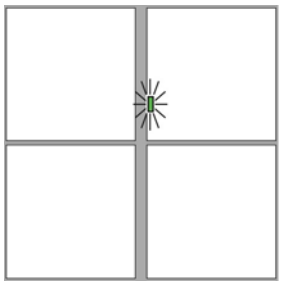
	Save actual display *(photo-button)*
	Switch between various cameras *(camera selection)*
	Switch to HOME menu

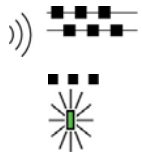
Signs and symbols in this documentation

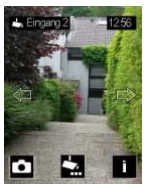
	acknowledge tone
	ring tone
	slow LED flashing: 0.5 s ON / 0.5 s OFF
	fast LED flashing: 0.125 s ON / 0.125 s OFF
	LED illuminated
	LED pulse flashing: **0.5** s ON / **1.5** s OFF
	LED OFF
	short centrically push of button
	short push of button section
	push button until ….
	release the button
	sound of loudspeaker / indoor station
	voice, talking massage

Communication

Start communication after incoming door call or internal call



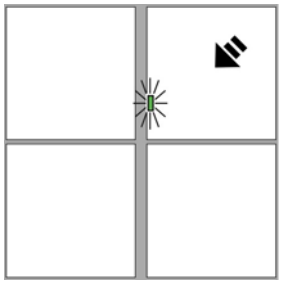




Door call

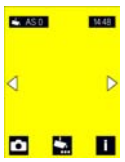
- You can hear the selected ring tone and the green LED of the communication button flashes.
- You can see the camera image of the calling outdoor station

Internal call



- Push the communication button to start the connection (max. 1 s).
  The green LED is illuminated.
  The communication is connected.

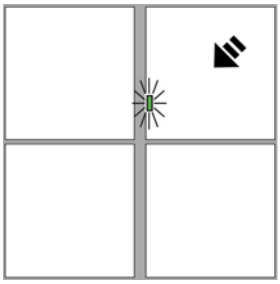
After incoming call from an audio outdoor station you can read the message: No video available.



After an incoming door call from a unknown video station, no image is displayed. The unknown video station has to be set up.

- Touch the symbol *photo-button to* save the displayed image
  (Video source settings see: Camera properties)

Communication without incoming call



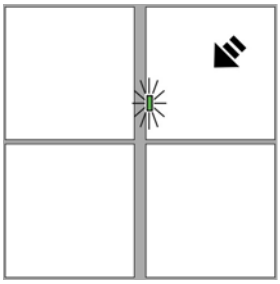
This function can be **deactivated** with the SERVICE DEVICE or the commissioning software (Communication only after incoming call).

- Press the communication button to start a hands free communication with the outdoor station.

The image of the last activated (saved) camera will be displayed.

During an existing communication of another indoor station and these outdoor station, you can read the message: Video currently in use

Stop communication



The communication will be stopped:

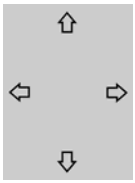
- by means of pushing the communication button (max. 1 s)
- when the preset communication time of the outdoor station is elapsed (factory setting: 1min.)
- by means of pushing the door release button.

- Disconnected communication: The LED turns off.

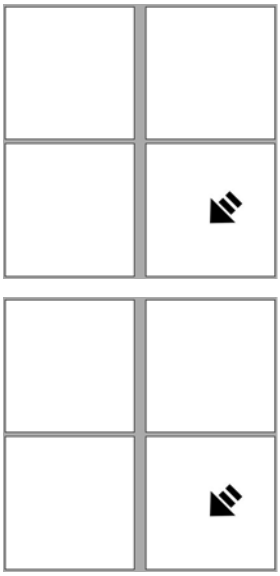
Turn off display

- The display turns off automatically after a predefined time (0.5 to 3 min), if no other button or door call will be triggered.
- The predefined time can be adjusted of the installer of the DCM system.

Operation after incoming door call

Video display operation		
		Zoom image • Tip onto the image centre 1x tip – Zoom factor 1.5 2x tip – Zoom factor 2 3x tip – Back to zoom factor 1
		**Scroll display detail** You can scroll the display to show hidden sections • Tip onto the arrows to scroll left/right/up/down.
		Save image manually The image of an incoming door call will be stored automatically. (with time stamp). • You can save an additional image by means of pressing the **photo-button** symbol. To display the saved image see: *Play and delete voice memo, display saved images, page 27.*
		Select camera • You can press onto the symbol **camera selection** to toggle between the system cameras. The name of the selected camera is indicated in the upper left corner.
		Select memos • White **i**: **NO** new voice memo recorded. Pressing the **i-button** opens the menu HOME. • Red **i**: **New** voice memo recorded, Pressing the **i-button** opens the menu MEMOS.

Door release

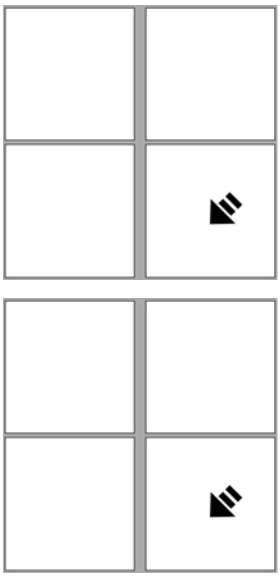


No existing communication and no image on the display:

- Press the display/door release button, to switch on the display.

- Press the display/door release button again, to release the door. The red LED is illuminated and the door release will be triggered.

Light switching



- Push the function button, when the function button is assigned with light switching (factory setting).

When **light switching function*** is activated:
(see manual of power supply & control unit).

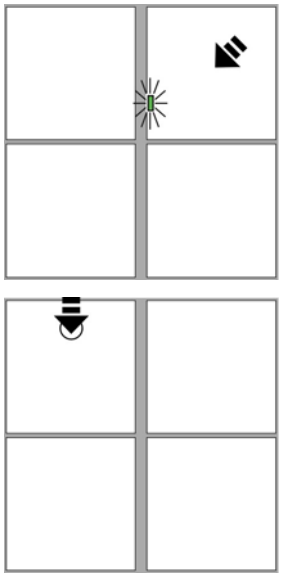
- Press the display/door release button, to switch on the display.

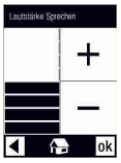
- Press the display/door release button again to switch on the light. The LED is off.

* = please see *explanation of terms and definitions* on page xx

Volume settings

Voice volume





Preparation
The indoor station must be in talking mode.
:

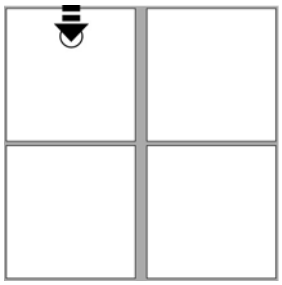
- Adjust the voice volume during an active communication between indoor and outdoor station.

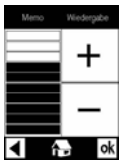
  (Press the communication button to start a communication.)

- Push ring tone button at the TOP section (for approx. 1 s).

- You can see the menu **Volume speech** on the display
- Now you can adjust the volume with **+** or **–**
  Save the settings with **OK**.

Volume voice memo



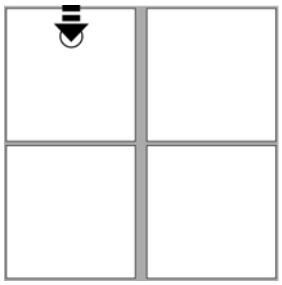


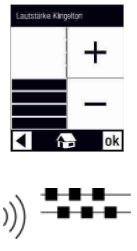
- Play a recorded message (see voice memo function on page 24)

  Push ring tone button at the TOP section (for approx. 1 s).

- You can see the menu **Volume memo** on the display
- Now you can adjust the volume with **+** or **–**
  Save the settings with **OK**.

Ring tone volume



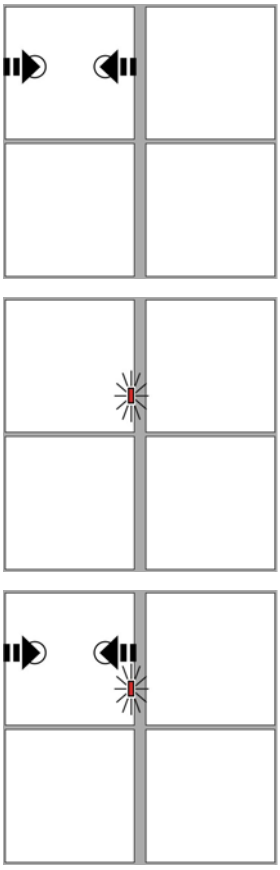


Preparation
DCM system is in idle mode.

Increase ring tone volume
Push ring tone button at the TOP section (for approx. 1 s).

- You can see the menu **Volume ring tone** on the display
- now you can adjust the volume with **+** or **–**
  Save the settings with **OK**.
- You can hear the selected ring tone volume.

Ring tone OFF / ON



Preparation
DCM system is in idle mode.

Ring tone OFF

- Push ring tone button LEFT or RIGHT.

The LED is illuminated, the ring tone is OFF.

Ring tone ON

- Push ring tone button LEFT or RIGHT.
- The LED turns off, the ring tone is ON again.

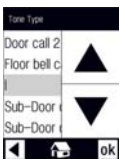
Ring tone settings

Select ring tone

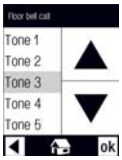
You can select ring tones for: 2 different main door calls, floor bell call, internal call, 4 different sub door calls

Preparation
DCM system is in idle mode.

- Push ring tone button (for approx. 8 s) until you can hear an acknowledge tone
- fast LED flashing
- Release the ring tone button



- You can see the menu **Tone type** on the display
- Select a tone type with the button ▲ ▼ or press on the description in the list.

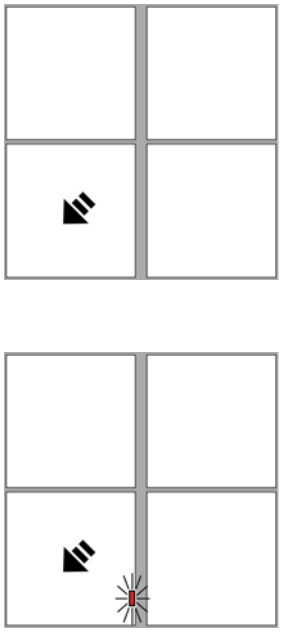


- Now you can select a ring tone with the button ▲ ▼ or press on the description in the list.
- You can hear the selected ring tone.

Note: If you select a ring tone to fast, you can only hear the last ring tone.

Function button

Features of the function button



Short push of the function button (max. 1 s).
Depending on the set function the indoor station indicates the action with visual or acoustic signals:

Features of the function button	Beep	
Light switching	-	-
Internal call	✓	flashing
Call diversion ON	-	✓
Call diversion OFF	-	×
Automatic door release ON	-	✓
Automatic door release OFF	-	×
Control function	-	-

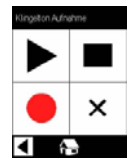
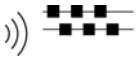
- no reaction,
✓ visual or acoustic signals,
× turns off

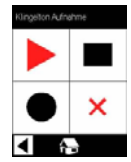
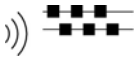
The functions internal call, call diversion and automatic door release of the video indoor station can not be selected directly with the function button.

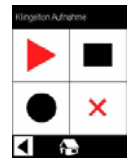
If the function button is programmed with one of these functions (internal call, call diversion and automatic door release), you can call the respective menu in the display with the function button.

Record, play or delete a ring tone

You can record a sound or ring tone with the microphone of the indoor station. The max. recording time is approx. 3 s. After recording the new ring tone / sound has to be selected as a new ring tone (see "ring tone selection").

Record a ring tone		
▷ Function button HOME ▷ System settings ▷ Voice ▷ Record ring tone	 	**Preparation** Start the menu as explained in the left column • Press the record symbol. • You can hear a signal. • The device starts recording. • Play your sound in front of the microphone with a normal volume. • Press the symbol *Stop* to stop the recording. The recording stops automatically after 3 s. If you want to record a NEW ring tone, you first have to delete the last ring tone with the *delete* button.

Play recorded ring tone		
	 	• Press on *play*. • Now you can hear the recorded ring tone.

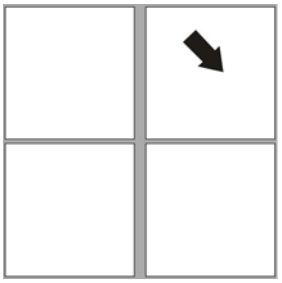
Delete recorded ring tone		
		• Press on the symbol *delete*. • Now you have deleted the ring tone *Note:* *Make sure to record a ring tone, if your custom ring tone is assigned to an outdoor station or internal call.*

The device turns automatically back into idle mode.

Voice memo function

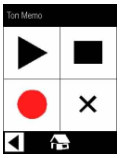
You can record a voice memo with the microphone of the indoor station. The max. recording time is approx. 30 s. After recording, the new voice memo will be indicated by means of the flashing LED. It is possible to save one voice memo.
You will delete the old voice memo by means of recording a new memo.

Record a voice memo



- Push communication button until you can hear acknowledge tone (after 4 s).

- you can see the menu *Memo* on the display
- release the communication button



- Press the symbol *Recording* until you can hear an acknowledge tone
- The recording starts

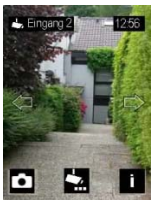
Now start speaking your message with a normal voice into the microphone

- Press the symbol *Stop* to finish your message. After 30 s the stops the recording automatically and indicates it with a fast flashing LED.

- LED flashes:
  Indication for a new recorded voice memo

If you want to record a NEW voice memo, you first have to delete the last voice memo with the *delete* button.

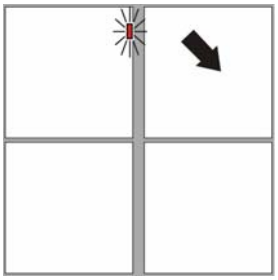
Save image



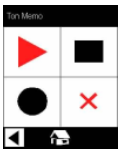
Automatically
The image of an incoming door call will be stored automatically. (with time stamp).

Manually
The camera display is switched on. Now you can save an additional image by means of pressing the **photo-button** symbol.

Play and delete voice memo, display stored pictures



- LED flashes:
  Indication for a new voice memo.
- Push communication button until you can hear acknowledge tone (after 4 s)
- you can see the menu *Memo* on the display
- release the communication button.



Play voice memo

- Select voice memo
- Press the symbol *play*.
- You can hear the voice memo. The LED turns off.
- You can play the voice memo again.

LED off:
The last voice memo has already been played. you can play it again. (Home/Memos/Voice/Play).

Delete voice memo

- Press the symbol *delete*.

Display stored images

- Press the symbol *picture*.

  The 2 last stored pictures in standard or zoom view are displayed.
- Press on one picture and it will be shown on the full display. Scrolling and zooming is possible.
- Select more stored pictures with the symbols ▲▼ .

Settings with the menu display

The setting takes place via the menu in the display.
Various functions can be operated or selected by means of touching the display.
When you press the function button for 3s the display starts with the menu HOME.

The display menu is divided in 3 levels

- User level 1: for the daily use
- User level 2: for simple settings as time and date
- Installer level: for professional device settings (access with PIN)

Access to the 3 levels:

- When you start the display menu you are already on **user level 1**
- Press system settings (menu HOME)until you can hear an acknowledge tone to access **user level 2**
- Press system settings (menu HOME) until you can hear the second acknowledge tone to access the **Installer level**

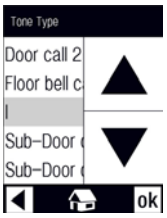
Enter text and characters

You can enter numbers and names (e.g.: Serial no.,camera names , other indoor station names).

Available: Numbers, letters and punctuation marks. Each button is assigned with multiple characters.

When you press a character button, then you can see all available characters of this button in the headline. Press several times on the same character field to select the required character in the headline. After 2 s the character is selected.

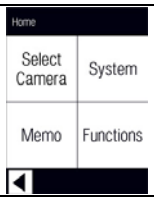
Text input for a touch button
If the text is too long for one line of a touch button you can insert a hyphen (Character button 1) to realise a line-break. If the text also appears in a list, the hyphen will be ignored..
3 lines are possible. The maximum amount of characters depends on the width of selected characters.



Text input for a list
You can type in text until both lines are filled with characters. If the text is too long for the list, the text starts to flow. Only in the middle line of the list)

- *Line-break with* ↵.
- *Switch to capital letters with* ⬆.
- *Delete digit with* **C.**
- *Save the entered text with* **ok**.

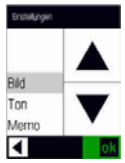
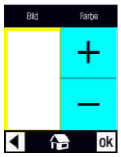
HOME

▷ **Function button HOME**	• Press the **function button** for about 4 s. • Now you can select of the following options:
	**Camera selection** **System** **Memo** **Functions**

Select a camera for video monitoring

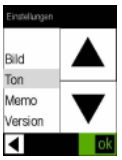
▷ **Function button HOME** Select camera		You have a direct access to 3 cameras. Press the button *camera list* to see all installed cameras
▷ Camera list ▷ <Camera name>		More than 4 cameras: • Select the name of the camera with the symbols ▲▼ and press **OK** or press directly on the name of the camera.

Display settings

▷ Function button HOME ▷ System settings ▷ **Display** ▷ Colour Contrast Brightness Reset	 	You can see the camera image (if the DCM system is not in use of an other video indoor station). • Adjust the parameters *colour*, *contrast* or *brightness* with the symbols **+** or **–** and save with OK. **Reset** With the reset button you can reload the factory settings • Confirm with *YES*, if you want to reload the factory settings.

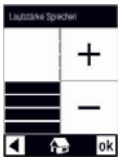
Volume settings

▷ Function button HOME
▷ System settings
▷ **Audio**
▷ Volume speech
Volume ring tone



- Adjust the volumes with the symbols **+** or **–** and save with OK.

Ring tone



Ring tone

- Select the ring tone for the Video indoor station, see page 21

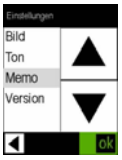
Record ring tone

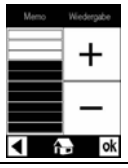
Record a ring tone

- See page 23

Volume settings for voice memo

▷ Function button HOME
▷ System settings
▷ Memo





- Adjust the volumes with the symbols **+** or **–** and save with OK.

Memos

▷ Function button HOME
▷ Memos
▷ Picture

Picture
Black characters: No new pictures
Red characters: new pictures stored

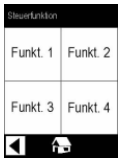
▷ Memo

Voice
Black characters: No new voice memos
Red characters: new voice memo recorded
Delete the existing voice memo before you record a new memo.

(See *Voice* memo function, page. 24).

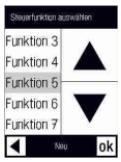
Function button: Select control functions

▷ Function button HOME
▷ Functions
▷ Control functions



Max. 4 control functions can be directly selected in the "4 button" display layout.

▷ List
Funct. <No.>
Funct. <No.>
…



More than 4 control functions:
Select the control functions with the symbols ▲▼ and press **OK** or press directly on the name of the control functions.

Function button: Select indoor station for an internal call

▷ Function button HOME
▷ Functions
▷ Internal call
▷ <Name>

Max. 4 indoor stations for an internal call can be directly selected in the "4 button" display layout.

Sortation depends on serial no.

▷ List
<Name>

More than 4 indoor stations for an internal:
Select the indoor stations for an internal call with the symbols ▲▼ and press **OK** or press directly on the name of the indoor station.

Function button: Other functions

▷ Function button HOME
▷ Functions
▷ **Other functions**
Door release
Door release (floor)
Auto speech int. call

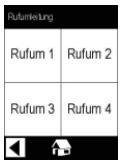
In the menu **other functions** you can activate or deactivate:

- Automatic door release (main door)
- Automatic door release (floor door)
- Automatic speech after incoming call

Red characters: Function activated
Black characters: Function deactivated

Function button: Select call diversion

▷ Function button HOME
▷ Functions
▷ Call diversion

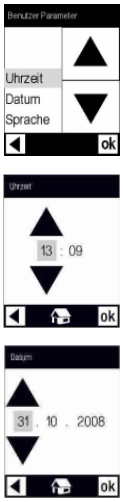


Max. 4 indoor stations for a call diversion can be directly selected in the "4 button" display layout.

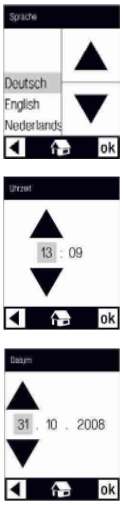
User parameter

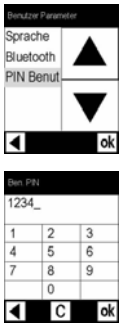
▷ Function button HOME ▷ System settings ▶ User parameter		Press the function button (approx. 4 s) to start the menu HOME. Press the **System button** until you can hear an acknowledge tone (after approx. 4 s). Now you can see the user parameter list. The DCM system installer can protect the user parameters with a PIN code. (see: *Define user PIN code*) . Fectory settings without PIN code. **Time** **Date** **Language** **User PIN**

Time and date settings

▷ Function button HOME ▷ System settings ▶ User parameter ▷ Time ▷ Hour ▷ Minute ▷ Date ▷ Day ▷ Month ▷ Year		• Select the time setting mode • Set the hour characters with the ▲▼ buttons • Set the minute characters with the ▲▼ buttons and press **OK** • Time is saved • Select the date setting mode • Set the day characters with the ▲▼ buttons • Set the month characters with the ▲▼ buttons • Set the year characters with the ▲▼ buttons and press **OK** • Date is saved

Language settings

▷ Function button HOME ▷ System settings ▶ User parameter ▷ Sprache ▷ Deutsch English Nederlands		• Select al anguage in the list *Sprache* with the ▲▼ buttons or by means of pressing on the language. The selection will be stored immediately and the menu structure will be displayed in the selected language.

Define user PIN code		
▷ Function button HOME ▷ System settings ▷ User parameter ▷ User PIN		You can define a PIN code to protect the settings of the user parameter. • Select a 4-digit code and save it with OK. *Revise your input with **C-button.***

Installer level/parameter

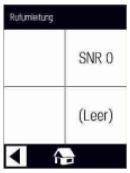
▷ Function button HOME ▷ System settings ▶ Install. parameter	• Select the HOME menu. • Press the system settings button until you can hear the first and the second acknowledge tone (after approx. 4 s and 8 s). The green system settings button changes into a green *Install. parameter* button. *The installer level is protected with a 6-digit PIN code.* *The PIN code is the serial number of the video indoor station.*
	Call diversion **Control function** **Internal call** **Camera** **Parallel function** **User PIN** **Turn off time Timeout** **Function button** **Parameter AS-Limit**

Call diversion settings

▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input *PIN user*,
▷ ok
▷ Call diversion
▷ *(empty)*

<Name>
edit

▷ delete
edit



- Press NEW to generate a new call diversion participant or press an option button to edit a call diversion.

New call diversion participant

- Type in the serial no. of the call diversion participant
- Type in a name for this participant
- The call diversion participant is stored

Edit call diversion participant

- Select a call diversion participant
  Edit the serial no. if required or edit the name of the call diversion participant
  The call diversion is saved.
  (See also: Enter text and , *S. 27).*

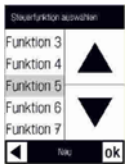
You can define a maximum of 4 call diversion participants.

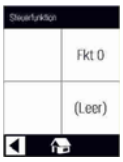
Control function settings

▷ Function button HOME
▷ System settings
▶ Install. Parameter
▷ input. user *PIN*
▷ ok
▷ Control function
▷ *(empty)*

<Name>

▷ delete
edit





- Press on NEW in the bottom menu, if you want to create a new control function or press onto an existing control function to edit it.

New control function

- Type in the required control function number.
- Select a name for the control function
- The control function is programmed

Edit control function

- Select the control function you want to edit
- you can change the control function number or edit the name of the control function
  (see also: *Enter text and , S. 27).*

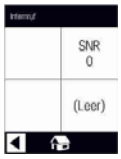
Up to 16 control functions can be applied.

Internal call settings

▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input. user *PIN*
▷ ok
▷ Internal call
▷ *(empty)*

<Name>

▷ Delete
Edit



- Press NEW to generate a new internal call participant or press an option button to edit an internal call.

New internal call participant

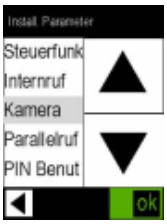
- Type in the serial no. of the internal call participant
- Type in the name of the participant
- the internal call participant is generated

Edit internal call participant

- Select the internal call
- You can edit the name and the serial no. of the internal call

Camera properties

▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input. user *PIN*
▷ ok
▷ Camera



▷ New
▷ Edit

▷ Type

AS 0

Pre-settings
▷ Ausblenden Zoom

<Name>
▷ <Name>
▷ delete
edit
▷

Preparation

- Find out type of camera: NTSC, PAL, Jung (digital) or PTZ (controllable).
- AS-Address can be set with the SERVICE DEVICE or the DCM commissioning software.

- Press NEW to save a new camera or select a camera name to edit the camera settings.

Select camera type

Connectable camera-types: NTSC, PAL, Jung (digital) or PTZ (controllable).

- Select the type of the connected camera

Define AS-Address

- Type in the AS-Address of the camera

Pre-settings

- Zoom:
  If possible adjust the ZOOM of the camera by means of pressing in the centre of the display.
  Use arrow button to scroll the camera to the desired angle.
- Save settings with OK.

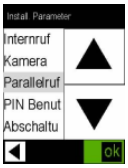
Type in name

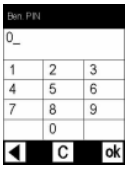
- Type in a camera name which appears in the camera list (e.g. Main Door)

You can save 16 cameras.

Parallel function settings

▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input. user *PIN*
▷ ok
▷ Parallel call
▷ delete
edit





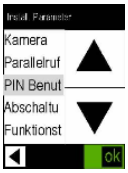
Assign parallel function

- Type in the serial number of the indoor station which shall forward the incoming call to this video indoor station. Save with ok.

Without a serial number, no parallel function is active.

User PIN

▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input. user *PIN*
▷ PIN USER
▷ delete
edit



PIN

Create a 4 digit PIN to protect the user parameters against unauthorised modifications.
Create a new user PIN, if the user has forgotten the existing PIN.

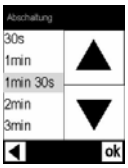
Edit PIN

- Type in the desired 4 digit PIN
  Save with ok.

If no PIN is saved, no PIN is required to access the user parameters.

Turn off settings

▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input. user *PIN*
▷ ok
▷ Turn off



The display of the video indoor station turns off after a defined turn off time, when no action takes place (e.g. incoming call, touching the display).

- Select a time and save with OK.

Select function for the function button

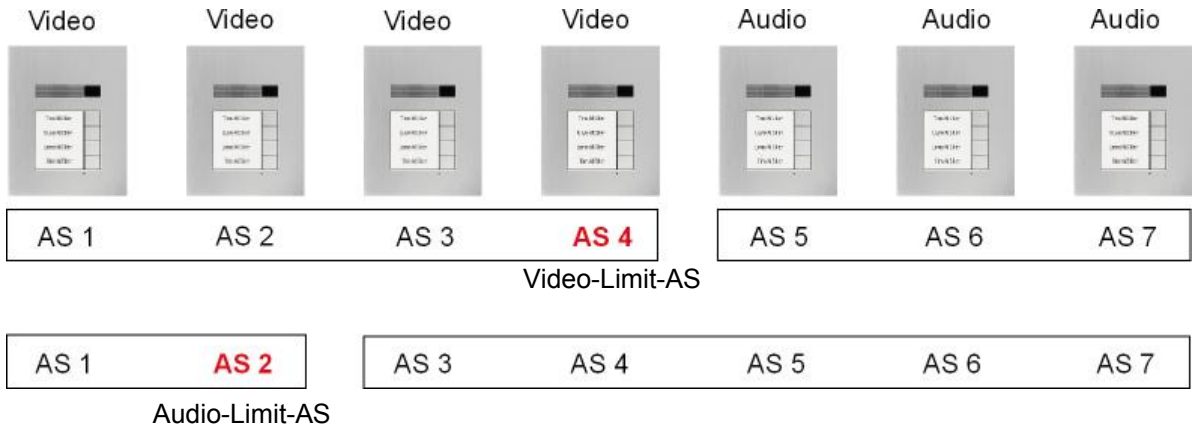
▷ Function button HOME
▷ System settings
▶ Install. parameter
▷ input. user *PIN*
▷ ok
▷ Function button

Assign the function, which shall be activated, when you press the function button.

Parameter: Video-Limit-AS and Audio-Limit-AS

▷ Function button HOME ▷ System settings ▶ Install. parameter ▷ input. user *PIN* ▷ ok ▷ Parameter ▷ Audio-Limit-AS ▷ AS <No.> Video-Limit-AS ▷ AS <No.>		Here you can define a Video-Limit-AS and an Audio-Limit-AS. • Select the AS-addresses and save with OK. Audio-Limit-AS: Limit between door call 1 and door call 2. Video-Limit-AS: Limit between video and audio outdoor stations. (Factory setting: outdoor station AS0-32 with Video / outdoor station with AS33 -63 without Video)

Exsample:
Installation with 7 outdoor stations, 4 video and 3 audio outdoor stations.
The **video** outdoor stations are assigned with the
AS-addresses: AS1 + AS2 + AS3 + AS 4
The **audio** outdoor stations are assigned with the
AS-addresses: AS5 + AS6 + AS7



Settings of the video indoor station:

Video-Limit-AS = **AS 4**
The video indoor station gets the information, that the outdoor stations AS1 + AS2 + AS3 + AS 4 are equipped with a camera.

Audio-Limit-AS= **AS 2**
The video indoor station gets the information, that the outdoor stations AS1 + AS2 are calling with the selected **ring tone 1** and the outdoor stations AS 4 + AS5 + AS6 + AS7 are calling with the selected **ring tone 2.**

Explanation of terms and definitions

AS-address	Every outdoor station is assigned with an **outdoor station address.** The address enables the differentiation between the various installed outdoor station. Selective communication or door release of e.g. main- or side entrance can be realised.
Ready for operation	Incoming door call - You can hear a ring tone and the LED at the communication button flashes. You can activate a communication with the outdoor station by means of a short push of the communication button.
Hands-free operation (Full duplex)	Simultaneous communication in both directions.
Door call	You release a door call at the assigned indoor station by means of pushing the bell button. A bell button can release a door call at two indoor stations (parallel call).
Internal call	An indoor station can call another assigned indoor station for an internal communication.
Automatic light switching *Programming at the outdoor station.*	The light will be switched depending on the ambient brightness when you push the bell button of the outdoor station. The limited brightness value is adjustable.
Light switching	The function button of the indoor station is assigned with the function "light switching" (factory setting). A bell button of the outdoor station will switch the light, if the bell button is not assigned to an indoor station.
Light switching function *Programming at the power supply and control unit.*	This door release button of the indoor station can be assigned with a second function, when the light switching function is activated: You first have to push the communication button before you can release the door with the door release button. Without pushing the communication button you will switch the light with the door release button.
Parallel call	A second indoor station can be programmed to a bell button of the outdoor station.
Parallel function *Programming only with the service device.*	Multiple indoor station can respond to one bell button of the outdoor station or the floor bell button. Each further indoor station respond just as the first indoor station.
Programming mode	The system has to be in programming mode to assign the indoor stations to the desired bell buttons of the outdoor station.
Programming lock	Protection against unauthorized programming. With active programming lock no bell button can be programmed.
Acknowledge tone	Acoustical confirmation
Idle mode	The device is ready for a door call or other operation.
Call diversion	An incoming door call will be forwarded from one indoor station to another indoor station. The call diversion has to be activated with the function button. The illuminated LED of the function button indicates the activated call diversion.

Talking mode	A communication between indoor and outdoor station will be activated by means of pushing the communication button. Die LED of the communication button is illuminated. The LED of the communication button is flashing, when another indoor station is already communicating with the outdoor station. After elapsed talking time, activating the door release or pushing the communication button again, the device turns back into idle mode.
Talking only after incoming door call *Programming only with the service device.*	A communication between indoor and outdoor station can only be activated after an incoming door call.
Talking time	The communication between indoor and outdoor station will be interrupted after a pre-defined talking time (60 s factory setting). The talking time is adjustable.
Control function	Command for the control various relays in the door communication system.
Sub door call *Programming only with the service device.*	The sub door call enables to assign 4 additional bell button of the outdoor station to the same indoor station. Each bell button can be assigned to a separate ring tone (e.g.: individual ring tones for each family member).
Automatic door release	The door release relay will be activated by means of pushing the bell button. The automatic door release can be activated/deactivated with the function button of the indoor station. The LED of the function button indicates the status. LED ON = automatic door release activated LED OFF = automatic door release deactivated
Door release time	The door release relay can be activated for an adjusted time.
Voice memo-function	Record and play a voice memo (message) up to a length of 30 s.

General notes on the wiring in DCM video systems

6-wire operation

The 6-wire operation is the standard operation. A video system requires 2 separate ground potential (b und M). The cabling depends on the building situation and will only be limited by the max. possible cable length.

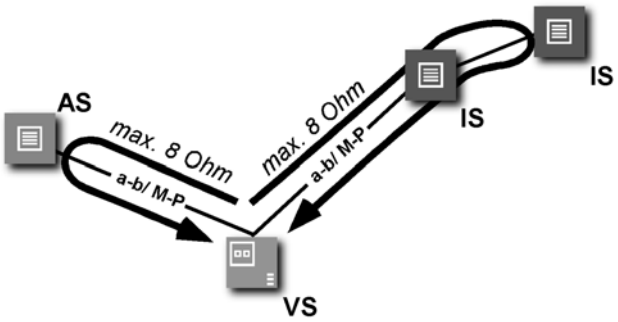
- Consider the cable length: The loop resistance a-b and M-P shall not exceed a max. of 8 Ω (see table).
- When loop resistance > 8 Ω: Extend the cable diameter by means of using multiple twisted pairs
- line or star-shaped wiring
- Do not install more then 16 Video indoor stations in one line. For systems with more then 20 video stations consider installation of video distributor (TK VV 2 REG or TK VV 2 U)
- Up to 64 outdoor stations (max 16 Video outdoor stations) and unlimited indoor stations can be installed with the adequate power supply & control unit (avoid reverse polarity)

Table: Loop resistance

Wire length of a-b / M-P in m	**Cross section**	
	0.6 mm	**0.8 mm**
	Loop resistance in Ω	
10	1.22	0.69
20	2.45	1.38
30	3.67	2.07
40	4.90	2.76
50	6.12	3.44
60	7.35	4.13
70		4.82
80		5.51
90		6.20
100		6.89

Principle of loop resistance

Rule:
No *door communication device* shall have a longer distance from the *power supply & control unit* than 8 Ohm !

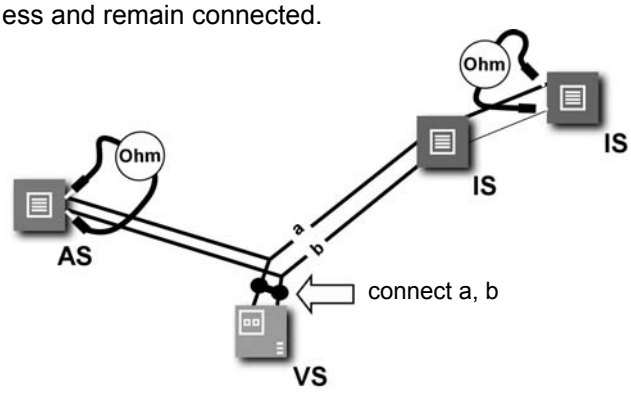


8 Ohm:

65 m wire length AS-VS (IS-VS) at a cross section of 0.6 mm
115 m wire length AS-VS (IS-VS) at a cross section of 0.8 mm

Measuring loop resistance

Rule:
Turn OFF 230 V / 50 Hz of the VS.
Connect a and b short circuit at the VS.
All other devices do not disturb the measuring process and remain connected.



AS. Outdoor station
IS: Indoor station
VS: Power supply and control unit

Technical Data

Supply voltage:	+24 V DC ± 8 % (Power supply & control unit) 24 V (a-b) / 26 V (P-b) in idle state
Current:	
3-wire:	I(a) = 0.1 mA, I(P) = 12 mA in idle state
Max. input current:	I(Pmax) = 190 mA
Protection class:	III
Admissible ambient temperature:	0 °C to 40 °C
Operation humidity:	0 to 93 % r. h., no condensation
Installation hight:	1.50 m (recommended)
Display:	TFT Colour display
Screen size:	7.2 cm

Cleaning

! Avoid the penetration of water into this device!
Do not use any aggressive or abrasive cleaning supplies!

Please clean the device with a dry or slightly moist rag.
Intense dirt can be removed with a mild cleaning supply.

Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.
Please return the unit postage paid to our central service department giving a brief description of the fault:

ALBRECHT JUNG GMBH & CO. KG

Service-Centre
Kupferstr. 17-19
44532 Lünen
Germany

Service-Line: 0 23 55 . 80 65 51
Fax: 0 23 55 . 80 61 89
E-Mail: mail.vka@jung.de

Technique (DCM)

Service-Line: 0 23 55 . 80 65 52
Fax: 0 23 55 . 80 62 55
E-Mail: mail.vka@jung.de

Albrecht Jung GmbH & Co. KG
P.O. Box 1320
58569 Schalksmühle
Germnany

www.gb.jung.de
www.jung-catalogue.com

CE The CE-sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

Technical subjects to change.
EN__TKISV.doc
02/2010