

2TMD041800D0026 | 30.04.2019

Product manual ABB-Welcome

M2238.-. Video indoor station 7 M2238.-.-02 Video indoor station 7



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1 Notes on the instruction manual

Please read through this manual carefully and observe the information it contains. This will assist you in preventing injuries and damage to property, and ensure both reliable operation and a long service life for the device.

Please keep this manual in a safe place. If you pass the device on, also pass on this manual along with it. ABB accepts no liability for any failure to observe the instructions in this manual.

2 Safety



Warning Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 100-240 V supply system to be performed only by specialist staff!

3 Intended use

This device is a central control panel of the ABB-Welcome system and operates exclusively with components from this system. The device must only be installed in dry indoor rooms.



SD card

This indoor station supports the following SD card:

- Type: Micro SDHC
- Capacity: 4...32 G
- Speed: Class10
- File system: FAT32
- Please use a SD card complying with SDHC standard, some SD cards may not perform correctly. It is recommended to use SanDisk, Kingston, Transcend SDHC cards, which are fully tested and verified.
- Do not remove SD card or reboot indoor station while recording or copying images onto the SD card, otherwise this SD card may fail to preform when recording or playing images.
- ABB is no responsible for the performance of an SDHC card.

4 Environment



Consider the protection of the environment!

Used electric and electronic devices must not be disposed of with household waste.

The device contains valuable raw materials that can be recycled. Therefore, dispose of the device at the appropriate collecting facility.

4.1 ABB devices

All packaging materials and devices from ABB bear the markings and test seals for proper disposal. Always dispose of the packing materials and electric devices and their components via an authorized collection facility or disposal company.

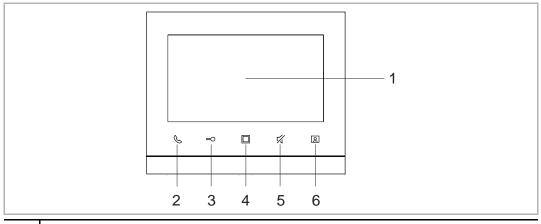
ABB products meet the legal requirements, in particular the laws governing electronic and electrical devices and the REACH ordinance.

(EU-Directive 2012/19/EU WEEE and 2011/65/EU RoHS)

(EU-REACH ordinance and law for the implementation of the ordinance (EG) No.1907/2006)

5 Product description

5.1 Control elements



No.	Function
1	Touch screen
2	Communication button When a call is coming in, press this button within 30 s to activate communication and press again to end the call.
3	Unlock button Open the door by pressing this button at any time.
4	 Programmable button Default function of this button is to release the 2nd lock connected with outdoor station. Programmable for additional function, e.g. switch on the light, unlock by relay.
5	 Mute button In standby mode, press this button to mute the ringtone on this indoor station. In standby mode, press and hold this button for 3 s to mute the ringtone of all indoor stations in the same apartment When a call is coming in, press this button to reject the call. During a conversation, press this button to mute the microphone.
6	Surveillance button In standby mode, press this button to monitor the outdoor station and external cameras if available.

5.2 Terminal description

	$ \begin{array}{c} \hline \\ \hline $					
No.	Function					
1	a1 b1 = bus connector					
2	Doorbell connector					
3	Station switch Set the address of the default outdoor station					
4	Address selector switch All are used to set the indoor station address. Selector switch X10 sets tens digits, selector switch X1 sets units digits, Dip switches X100 and X200 set hundreds digits.					
5	Master/slave function switch Only one indoor station in each apartment can be set as "Master" (ON=Master).					
	Terminal resistor switch In video installations or mixed audio and video installations, the switch must be set as 'RC on' on the last device of the line (ON=RC on).					
6						
6 7						
	the last device of the line (ON=RC on).					
7	the last device of the line (ON=RC on). Microphone					

6 Technical data

Designation	Value		
Operating voltage range	20-30 V DC		
Standby current	24 V DC, 12 mA		
Operating current	24 V DC, 330 mA		
Operating temperature	-10 °C+55 °C		
Display size	7"		
Resolution	1024 x 600 pixel		
Single-wire clamps	2 x 0.28 mm ² 2 x 0.75 mm ²		
Fine-wire clamps	2 x 0.28 mm ² 2 x 0.75 mm ²		
Product dimensions	198.5 mm × 162.3 mm × 17 mm		

7 Mounting/Installation



Warning Electric voltage!

Dangerous currents flow through the body when coming into direct or indirect contact with live components.

This can result in electric shock, burns or even death.

- Disconnect the mains power supply prior to installation and/or disassembly!
- Permit work on the 100-240 V supply system to be performed only by specialist staff!

7.1 Requirement for the electrician



Warning

Electric voltage!

Install the device only if you have the necessary electrical engineering knowledge and experience.

- Incorrect installation endangers your life and that of the user of the electrical system.
- Incorrect installation can cause serious damage to property, e.g. due to fire.

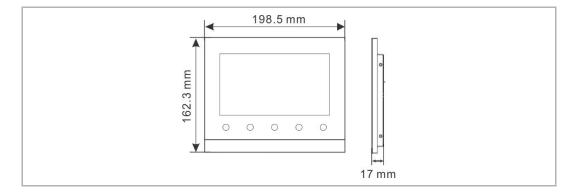
The minimum necessary expert knowledge and requirements for the installation are as follows:

- Apply the "five safety rules" (DIN VDE 0105, EN 50110):
 - 1. Disconnect
 - 2. Secure against being re-connected
 - 3. Ensure there is no voltage
 - 4. Connect to earth and short-circuit
 - 5. Cover or barricade adjacent live parts.
- Use suitable personal protective clothing.
- Use only suitable tools and measuring devices.
- Check the type of supply network (TN system, IT system, TT system) to secure the following power supply conditions (classic connection to ground, protective grounding, necessary additional measures, etc.).

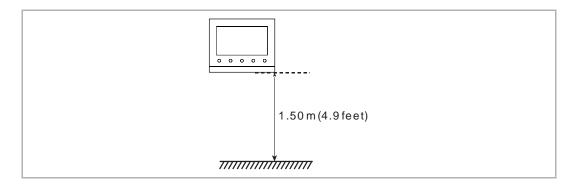
7.2 General installation instructions

- Terminate all branches of the wiring system via a connected bus device (e.g., indoor station, outdoor station, system device).
- Do not install the system controller directly next to the bell transformer and other power supplies (to avoid interference).
- Do not install the wires of the system bus together with 100-240 V wires.
- Do not use common cables for the connecting wires of the door openers and wires of the system bus.
- Avoid bridges between different cable types.
- Use only two wires for the system bus in a four-core or multi-core cable.
- When looping, never install the incoming and outgoing bus inside the same cable.
- Never install the internal and external bus inside the same cable.

7.3 **Product dimensions**

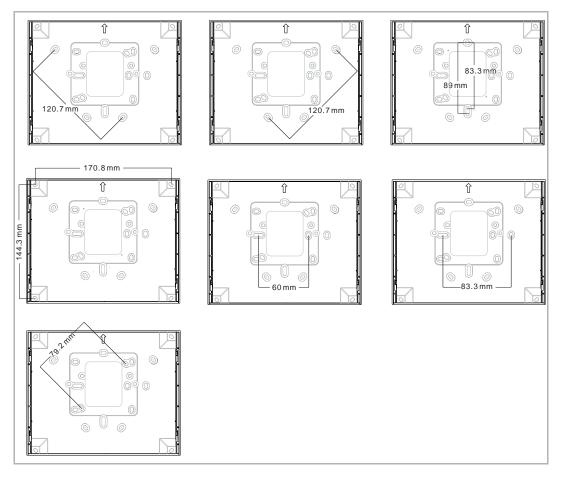


7.4 Installation height

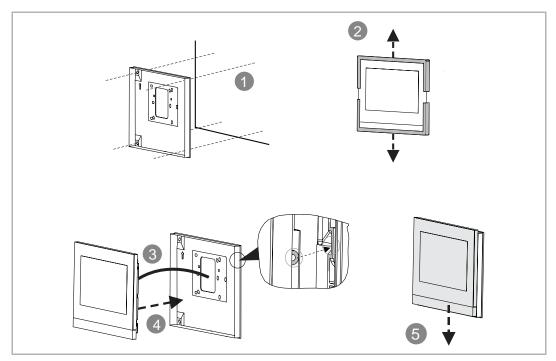


7.5 Surface-mounted installation

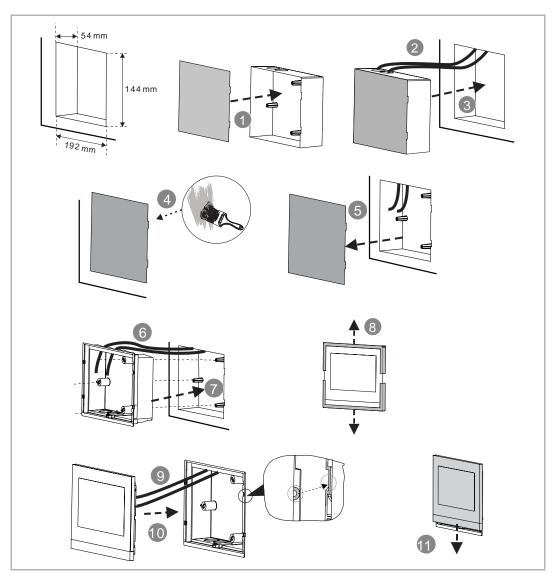
Surface-mounted box



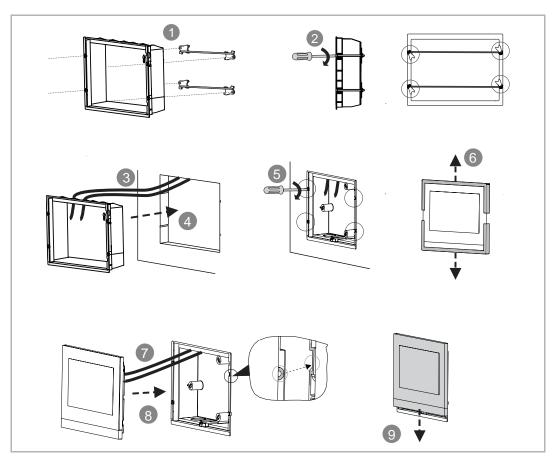
Surface-mounted installation



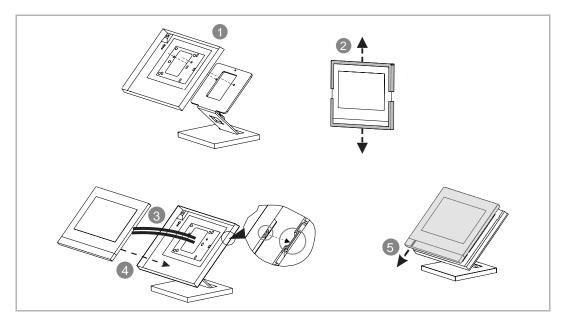
7.6 Flush-mounted installation



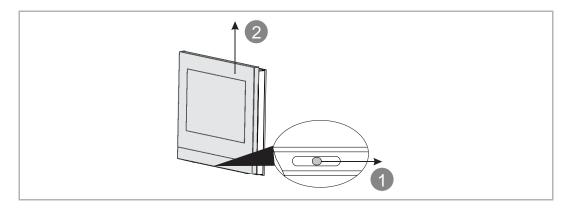
7.7 Cavity wall installation



7.8 Desktop installation



7.9 Dismantling



8 Commissioning

8.1 Initial setup

When this device is powered up for the first time, or when the "Clear all data" function on "Engineering settings" screen is used, the indoor station enters initial setup.

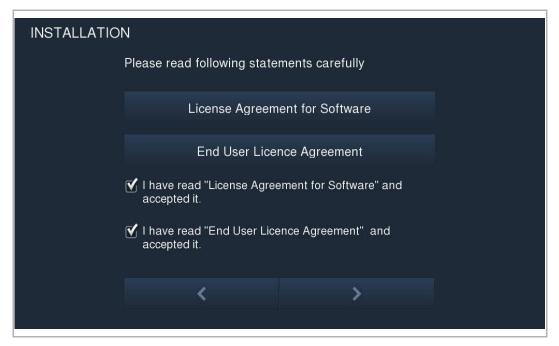
1. Choose country or region

INSTALLATION									
1	Choose your country or region								
	Afghanistan	< _							
-	Albania								
	Algeria								
	Andorra	~							
	Angola	~							
	Start								
-									

2. Select system language

INSTALLATION									
	Please select system language								
	English		✓						
	Deutsch								
	Español								
	Français			~					
	Italiana			*					
	<		>						

3. Read license agreement

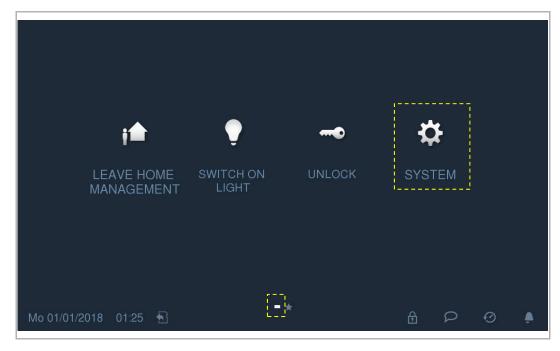


4. Set date and time

INSTALLATION								
	Please select date and time							
	Time	Date						
	00 : 00	01/01/2018						
	- +	- +						
	Time Format	Date Format						
	24 hours 🗸 🗸	DD/MM/YYYY	~					
	<	>						

8.2 Enter system setting

In standby mode, on the extra screen, click "SYSTEM" to access the "System Settings" screen.



8.3 Camera list

On the "System Settings" - "Camera list" screen, click "Camera list" to access the corresponding screen.

🔶 System Setting	IS					143
System settings						
CameraList		CameraList				
Sound		li				
Display						
Date and time						
Door Entry System	~					
Language	~					
Fr 05/01/2018 02:32	£]		₫	P	Ø	٠

Click 💟 to synchronize all cameras on outdoor stations and cameras connected to the camera interfaces to create a camera list.

SYSTEM CAMERA LIST								
CameraList 🗘 🥕								
Outdoor station 04-4	^							
Outdoor station 04-5	^							
Outdoor station 05								
Camera 01								
Camera 02								
Camera 03	~							
Camera 04								
Mo 01/01/2018 03:23 🕤 🔂 🖸 🖸								

SYSTEM CAMERALIST

On the "Camera list" screen, click the outdoor station or camera to view the image, and then click "Save" to save an icon to the camera list.

On the "Camera list" screen, click 🖍 to access the settings.

SYS	SYSTEM CAMERA LIST								
Cam	neraList	_		_			✓		
	5 Delete All 🔟								
Outc	loor station 04-5	1			3⊘	<mark>4</mark> 📺	^		
Outc	loor station 05				\oslash	Ŵ	^		
Cam	era 01	Select a station		2 🗹 Visual Doorbell	Ø	Ŵ			
No.	Function								
1	Set an alias for outd	oor stations or camera	S						
2	Set visual doorbell function for cameras								
3 Hide the device in the camera list									
4	Delete the device from the camera list								
5	Clear all devices from the camera list								

8.4 Sound

t	System Setting	IS				
Sys	tem settings					
CameraList		÷	Sound	<u>^</u>		
Sound			1 Touch tone	on		
Disp	play		Ringtone settings			
Date	e and time		Volume settings			
Doo	r Entry System		2 🌒 🔿			
Lan	guage	~	3 Repeated tone	on v		
Gan	neralist	. A	4 Ring Tone Default Door	Ring Tone Other Doors		
Sou	Ind		Ringtone 1 🗸 🗸	Ringtone 2 🗸 🗸		
Disp	olay		Ring Tone Apartment	Ring Tone Others		
Dat	e and time		Ringtone 3 🗸 🗸	Ringtone 4 🗸		
Doo	or Entry System		5 Customized ringtone 1			
Lan	guage	* *		Add Delete 💙		
No.	Function					
1	Touch tone setting					
2	Volume setting					
3	Repeated tone setting ON = repeated ringtone within 30 s, OFF = rings only once					
4	Ringtone settings Click the drop-down list to select the ringtones for the default outdoor station, other outdoor stations, the doorbell and other devices. (5 built-in ringtones)					
Customized ringtone 3 customized ringtones (.wav only) can be added from an SD card.			om an SD card.			

A customized ringtone will appear on the drop-down list of ringtone settings after being

On the "System Settings" - "Sound" screen,

The toal size of 3 customized ringtones is 10 M.

5

•

•

8.5 Display

★ System Settings								
Sys	stem settings							
Ca	meraList	Clean screen 1						
So	und							
Dis	play	Display						
Da	te and time	Brightness 2						
Do	or Entry System	Ο						
Lai	nguage	🗹 Auto full screen 3	×					
Mo 0	1/01/2018 23:57 🕤		٠					
No.	Function							
1	Clean screen							
I	Click the screen for 30 s. Please see the "Clean screen" chapter for more details.							
2	Brightness Drag the bar to adjust the brightness.							
3	Auto full screen							

On the "System Settings" - "Display " screen,

8.6 Date and time

★ System Settings								
System settings								
Ca	meraList		Time 1	Date 2				
So	und		23 : 57	01/01/2018				
Dis	splay		- +	- +				
Da	te and time		Time Format	Date Format				
Do	or Entry System		24 hours 🗸 🗸					
Lai	nguage	~	Summer time 3		~			
Mo 0	1/01/2018 23:57	Ð		6 6				
No.	Function							
Time setting 1 Click "+" or "-" to set hour and minute • Choose time format (12 hours or 24 hours) from the drop-down list								
 Date setting Click "+" or "-" to set the year, month and day Choose the date format from the drop-down list 								
3	Surmmer time							

On the "System Settings" - "Date and time" screen,

8.7 Automatic snapshot

On the "System settings" - "Door Entry System" screen, click switch button to enable/disable the function.

When this function is enabled, three snapshots are taken and automatically saved to the history record when the bell is pressed.

System Setting	
System settings	
CameraList	Automatic snapshots On
Sound	Door Status Check on
Display	Missed call notification
Date and time	Door open password
Door Entry System	
Language	 Program button setting Poloopo 2nd look
Mo 01/01/2018 00:30	

8.8 Door status check

On the "System settings" - "Door Entry System" screen, click the radiobutton to enable/disable the function.

When this function is enabled, the outdoor station will send an alarm to this indoor station when the door is open over 120 s. (A sensor should be connected to the outdoor station first) The indoor station will flash all its button LEDs until the door is close.

System Setting	ļS					144
System settings						
CameraList		Automatic snapshots		Or	n	
Sound		Door Status Check		IO	n	
Display		Missed call notification			5	
Date and time		Door open password			off	
Door Entry System						
Language	~	Program button setting				~
Mo 01/01/2018 00:30	•		Ð	2	Ø	

8.9 Missed call notification

On the "System settings" - "Door Entry System" screen, click the radiobutton to enable/disable the function.

If this function is enabled, the call button LED will flash to indicate the missed call.

System Setting	s		140
System settings			
CameraList		Automatic snapshots on	
Sound		Door Status Check	
Display		Missed call notification	
Date and time		Door open password	
Door Entry System			
Language	~	Program button setting	~
Mo 01/01/2018 00:30			

8.10 Unlock password

On the "System settings" - "Door Entry System" screen, click the radiobutton to enable/disable the function.

When this function is enabled, you can set a password to release the lock connected to the outdoor station. (3...8 digits)

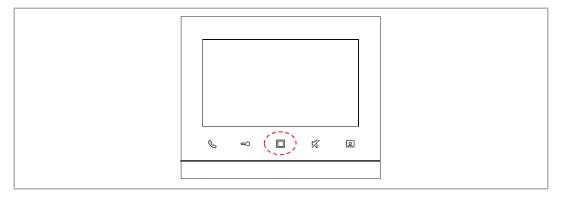
System Settings				
System settings			_	
CameraList	Automatic snapshots		on	
Sound	Door Status Check		on	
Display	Missed call notification		on	
Date and time	Door open password		off	
Door Entry System				~
Language	Program button setting	Target type		~
Mo 01/01/2018 02:25 🗧		Ê	Ø	٠
System Settings				
System settings		_	_	
	Automatic snapshots	_	on	<
System settings Date and time	Automatic snapshots ben password(3~8 digits)		on on	~ ~
System settings Date and time Door Entry Sys Input n				~ ~
System settings Date and time Door Entry Sys Input n Language Input n	pen password(3~8 digits)		on	<. <
System settings Date and time Door Entry Sys Input n Language	ew password(3~8 digits) ew password! ew password again	ОК	on on	3. 3
System settings Date and time Door Entry Sys Input n Language Input n	ew password(3~8 digits)	ок	on on	* *
System settings Date and time Door Entry Sys Input n Language Engineering se	ew password(3~8 digits) ew password! ew password again	OK	on on	< < > >

8.11 Program button setting

On the "System settings" - "Door Entry System" screen, program button is set to "Release 2nd-lock" by default. It will be disabled if it is set to "None".

System Setting	S	
System settings		
CameraList	Door Status Check	on ^
Sound	Missed call notification	on
Display	Door open password	off
Date and time		
Door Entry System	Program button setting	
Language	Release 2nd-lock 🗸	*
Mo 01/01/2018 01:02	€ 6	P 0 🖡

Press the D button to enable the defined function.



If the standby unlock settings have been enabled, "Unlock" can be select here, followed by a lock from the drop-down list. Please see the "Standby unlock" chapter for more details.

System Setting	S					
System settings						
CameraList		Door Status Check		or	1	^
Sound		Missed call notification		or	1	
Display		Door open password			off	
Date and time						
Door Entry System		Program button setting	Target type			
Language	× ×	Unlock 🗸	LOCK1			
Mo 01/01/2018 00:16	1		嵒	Q	Ø	

If the standby switch has been selected in the light settings, "Switch on light" can be selected here, followed by a light from the drop-down list. Please see the "Standby switch on the light" chapter for more details.

🔶 System Setting	js				
System settings					
CameraList		Door Status Check		on	Â
Sound		Missed call notification		on	
Display		Door open password		off	
Date and time					
Door Entry System		Program button setting	Target type		
Language	* *	Switch on light 🗸	LIGHT1		*
Mo 01/01/2018 00:17	1		£	Q 1	0

8.12 Language

System Setting	IS					
System settings						
CameraList						
Sound		English			✓	
Sound		Deutsch				
Display		Español				
Date and time		Français				
Door Entry System		Italiana				
	~					¥
Language	~	Nederlands				~
Mo 01/01/2018 00:17	•		₿	Q	Q	

On the "System Settings" - "Language" screen, select the language.

8.13 Engineering settings

8.13.1 Enter engineering setting

On the "System Settings" - "Engineering setting" screen, enter the engineering password to enter the settings screen. (the system default engineering password is 345678; this password is only used to set a new engineering password and must be changed after first use)

System Setting	S							1
System settings		Enter er	ngineering	pwd				
Date and time	<u>^</u>		*****	æ				
Door Entry System		1		3				
Language		4	5	6				
Engineering setting								
Reset user settings			0					
About		×		ОК				
Mo 01/01/2018 01:51	£				⋳	Q	Ø	۵

8.13.2 Device settings

The "Engineering setting" - "Device settings" screen includes the settings described below.

Surveillance mode

If this function is disabled, it is not possible to start the surveillance by pressing the 🗵 button.

Engineering se	tting		ι
Engineering setting			
Device settings		Device settings	~
Customized page		Surveillance mode	
Engineering pwd		 Manual Snapshot Enable auto. door unlock 	
Clear all data		Copy Snapshots to SD Card	
		Enable to delete history data	
		Enable to edit camera list	
			~
Mo 01/01/2018 01:26	1	P Ø	۵

Manual snapshot

If this function is disabled, it is not possible to take a manual snapshot during a call.

Engineering se	tting		
Engineering setting			
Device settings		Device settings	· *
Customized page		Surveillance mode Manual Snapshot	
Engineering pwd		Enable auto. door unlock	
Clear all data		Copy Snapshots to SD Card	
		Enable to delete history data	
		Enable to edit camera list	
			~
Mo 01/01/2018 01:26	•	0 Q	

Auto unlock

Engineering se	tting				ι.
Engineering setting					
Device settings		Device settings			<u></u>
Customized page		Surveillance mode Manual Snapshot			
Engineering pwd		Enable auto. door unlock			
Clear all data		Copy Snapshots to SD Card			5 - 5
		Enable to delete history data			
		Enable to edit camera list			
					~
Mo 01/01/2018 01:26	1		Q	Ø	٠

If this function is disabled, the $\widehat{\Box}$ will be hidden on the status bar.

Copy snapshot to SD card

If this function is disabled, it is not possible to copy snapshots to SD card on the "History" screen even when an SD card is inserted.

Engineering se	tting						-1
Engineering setting							
Device settings		Device settings					
Customized page		Surveillance r					
Engineering pwd		Manual Snap Enable auto.					
Clear all data		Copy Snapsh]			
		Enable to del	ete history data				
		Enable to edit	t camera list				~
Mo 01/01/2018 01:26	£				ρ	Ø	
DOOR ENTRY	HIST	ORY					
DOOR ENTRY All history records	HIST	ORY	_	_	_		V
		_	Copy Sna	pshots to SI) Card	1921	✓
All history records		_	Copy Sna 02/01/2018	pshots to SI 00:14:42	D Card	- C	<
All history records Delete		j			D Card		
All history records Delete OS 04) Take call	02/01/2018	00:14:42		Ū	
All history records Delete OS 04 4) Take call Take call	02/01/2018 01/01/2018	00:14:42 22:01:16	Ø	1	< <
All history records Delete OS 04 0 4 0 4) Take call Take call Take call	02/01/2018 01/01/2018 01/01/2018	00:14:42 22:01:16 22:00:42	Ø		< < < > >

Delete history data

If this function is disabled, it is not possible to delete the record on the "History" screen.

Engineering set	ting						
Engineering setting							
Device settings	Device	settings					*
Customized page		Surveillance r 1anual Snap					
Engineering pwd		nable auto.					
Clear all data		opy Snapsh	ots to SD Card	,			
		nable to dele	ete history data	1			
	Ч 🔳 Е	nable to edit	t camera list				
							~
Mo 01/01/2018 01:26	£				2	Ø	
DOOR ENTRY H	ISTORY						
						15	-
All history records					_		√
All history records	All 🔟		Copy Sna	pshots to SI) Card	◆]	✓
		ake call	Copy Sna 02/01/2018	upshots to SI 00:14:42	D Card	*1	✓
Delete A		ake call ake call			D Card		✓
Delete A	т т		02/01/2018	00:14:42			✓
Delete A	т т т	ake call	02/01/2018 01/01/2018	00:14:42 22:01:16	0		
Delete A Solution Delete A OS 04 4 0 4	, Т Т Т Т	ake call ake call	02/01/2018 01/01/2018 01/01/2018	00:14:42 22:01:16 22:00:42	0		<

Edit camera list

If this function is disabled, it is not possible to rename the camera.

Engineering set	tting				121
Engineering setting					
Device settings		Device settings			*
Customized page		Surveillance mode Manual Snapshot			
Engineering pwd		Enable auto. door unlock			
Clear all data		Copy Snapshots to SD Card			
		Enable to delete history data			
		Enable to edit camera list			
					*
Mo 01/01/2018 01:26	1		Q	Ø	۵
SYSTEM CAME	RA L	IST			1. 121
SYSTEM CAME	RA L	IST	_	_	√
	RA L	IST Delete All <u>前</u>	-		✓
	RA L		Ø	Ū	~
CameraList	RA L		0	Ē	 ✓ ✓
CameraList Outdoor station 04-1	RA L				 ✓
CameraList Outdoor station 04-1 Outdoor station 04-2	RA L		0	Ū	 ✓
CameraList Outdoor station 04-1 Outdoor station 04-2 Outdoor station 04-3	RA L		0	Ū Ū	✓
CameraList Outdoor station 04-1 Outdoor station 04-2 Outdoor station 04-3 Outdoor station 04-4	RA L		0 0 0		< < < < >

Open dedicated outdoor station

If this function is enabled, it is possible to release the lock on dedicated outdoor station. (1...9)

Engineering se	tting		
Engineering setting			
Device settings		Enable auto. door unlock	^
Customized page		 Copy Snapshots to SD Card Enable to delete history data 	
Engineering pwd		Enable to edit camera list	
Clear all data		☑ Open dedicated outdoor station 1 ✓	
		Automatic snapshot start after: 1 sec. 🗸	
Mo 01/01/2018 01:37	•	P 0	۹

Auto snapshot

It is possible to set auto snapshot start after 1 s or 3 s.

Selecting 1 s means, this device will take a snapshot automatically at 1 s, 3 s and 5 s. Selecting 3 s means, this device will take a snapshot automatically at 3 s, 5 s and 7 s.

Engineering se	tting		-24
Engineering setting			
Device settings		Enable auto. door unlock	^
Customized page		 Copy Snapshots to SD Card Enable to delete history data 	
Engineering pwd		Enable to edit camera list	
Clear all data		☑ Open dedicated outdoor station 1 ✓	
		Automatic snapshot start after: 1 sec. 🗸	~
Mo 01/01/2018 01:37	•	0 Q	۵

8.13.3 Customized extra page

On the "Engineering setting" - "Customized page" screen, tick the check box to enable the functions. The icons for these functions will be displayed on the extra screen.

Engineering set	tting			
Engineering setting				
Device settings	Customized extra page			
Customized page	──── 🗹 Unlock ☑ Switch on light			
Engineering pwd	Leave home management			
Clear all data				
Mo 01/01/2018 01:39	£	ρ	Ø	۵
I LEAVE HO MANAGEM		SYSTEM		
Mo 01/01/2018 01:25	™	A D	Ø	۹

8.13.4 Change engineering password

On the "Engineering setting" - "Engineering pwd" page, click "Engineering password" to change the password in the pop up window.

Engineering setting						
Engineering se	etting					
Device setting	Engineering password(6 digits)		_			
Customized pa	Input original password!					
Engineering p	Input new password!					
Clear all data	Enter new password again					
	×	ОК				
Mo 01/01/2018 0	00:30 🔂		ß	P	Ø	٠



Note

Engineering password must be changed at the first time you enter engineering setting. (The system default is 345678. This password should only be used for initial setting work and should then be changed to another password. It cannot be used as the actual password)

8.13.5 Clear all data

On the "Engineering setting" - "Clear all data" screen, click "clear all data" - "OK".

This function is only available within 120 s after the indoor station is powered on, and will restore all user settings and engineering settings to the default value.

★ Engineering set	ting			
Engineering setting				
Device settings	Clear all data			
Customized page	Clear all data			
Engineering pwd				
Clear all data				
Mo 01/01/2018 23:55	Ð	ß	Ø	۵

8.13.6 Reset settings

System Setting	S		-24
System settings			
Date and time	<u>^</u>	Reset user settings	
Door Entry System		Change user password	
Language			
Engineering setting			
Reset user settings			
About			~
Mo 01/01/2018 00:33	1	£ ₽ 0	

On the "System settings" - "Reset user settings" screen,

Click "Reset user settings" and enter user password (default is 123456) to reset the following settings:

- Brightness: 50%
- Volume settings: 50%
- Auto full screen: Enable
- Auto snapshots: Enable
- Door status check: Enable
- Missed call notification: Enable
- Program button setting: Release the 2nd-lock
- Door open password: Null
- Repeated tone: on
- Touch tone: on
- Leaving message: off
- Call forward: off
- Auto unlock: off
- Mute: off

Click "Change user password", enter the original password and a new password to set the new user password.

"Reset user password", "Reset engineering password" and "Reset door open password" are only available within 120 s after the device is powered on.

8.13.7 Device address

System Setting	s		
System settings			
Date and time	^ ^	Indoor station address: 1	^
Door Entry System		Mode: Master mode	
Language		Default Outdoor Station: 1	
Engineering setting		User's instructions:	
Reset user settings			~
About			~
Mo 01/01/2018 23:22	•		۹

On the "System settings" - "About" screen, it is possible to view the address of this device.

8.13.8 Version information

On the "System settings" - "About" screen, it is possible to view the version information.

System Setting	;				
System settings					
Date and time	Fin	mware version:			
Door Entry System		MCU_V1.03_20190307 CPU_V1.03_20190325			
Language		Firmware update			1
Engineering setting					
Reset user settings		loor station address: 1			
About		de: Master mode			~
Mo 01/01/2018 23:21	6		ß	Ð	۵

8.13.9 Obtain product manual

On the "System settings" - "About" screen, there is a QR code that can be scanned to access the website.

★ System Settings				
System settings				
Date and time	^		^	
Door Entry System		Mode: Master mode	~ ~	
Language		Default Outdoor Station: 1		
Engineering setting		User's instructions:		
Reset user settings			~	
About			~	
Mo 01/01/2018 23:22	•	6 P 0	<u>۽</u>	

Click "Downloads" - "Manual" to download the file.

Data Sheet Downloads		(S) GL
Downloads for System Devices		→ Documents in all langu
Show all (7)	The second service industry	
Declaration of conformity (2) Manual (2)	 Logan. Section and Columnia 	
Operating instruction (1)	 Productional Photos dependence Production of the second seco	
Software (2)		

8.13.10 Disclaimer

On the "System settings" - "About" screen, it is possible to view the disclaimers e.g. OSS and EULA.

System Setting	S		
System settings			
Date and time	^		^ ^
Door Entry System		Disclaimer	
Language			
Engineering setting		License Agreement for Software	
Reset user settings		End User Licence Agreement	
About		·'	
Mo 01/01/2018 23:22	£]		٠

8.13.11 Firmware update

★ System Settings							
System settings							
Date and time	^ ^	Indoor station address: 1				^	
Door Entry System		Mode: Master mode					
Language		Default Outdoor Station: 1					
Engineering setting		User's instructions:					
Reset user settings							
About						~	
Mo 01/01/2018 23:22	•		£	Q	Ø		

It is possible to obtain the latest version on the website via scanning the $\ensuremath{\mathsf{QR}}$ code.

Click "Downloads" - "Software" to download the files.

ا م		nents library and links to offering related to this produc tact us using form located at the bottom of the page.	t. ⊖ <u>Print</u> □ <u>Print to Pdf</u>	🔊 global site
Ð	Downloads for System Devices	5		
	Available documents:		→ Advanced search	→ Documents in all languages
	Show all (7)	Pressent de Désid Parleys		1.00
	Declaration of conformity (2)	" Type Sector April		
	Manual (2)	Personal Articles Process West		1.00
	Operating instruction (1)	index (not or the shares		
	Software (2) >			

Note

These 2 update files must be saved in the root directory on the SD card.

0



Note This function is only available when an SD card is inserted.

On the "System settings" - "About" screen, click "Firmware update", click the file and then click "OK" to update the firmware.

System Setting	IS					
System settings						
Date and time	^	Firmware version:				
	^	MCU_V1.03_20190307				~
Door Entry System		CPU_V1.03_20190325	,			
Language		Firmware update				1
Engineering setting						
Reset user settings		Indoor station address: 1				
About		Mode: Master mode				~
Mo 01/01/2018 23:21	•	Default Outdear Othtian 1	ि		Ø	
		1				
System Setting //mnt/sdcard				-		
<mark>ر /mnt/sdcard</mark> ر	IS)325 2019/03/25 11:19:52	img	87 M		
<mark>ر /mnt/sdcard</mark> ر	IS)325 2019/03/25 11:19:52		87 M		
<mark>ر /mnt/sdcard</mark> ر	IS)325 2019/03/25 11:19:52		87 M		
<mark>ر /mnt/sdcard</mark> ر	IS)325 2019/03/25 11:19:52		87 M		

9 Operation

9.1 DES page

In standby mode, clicking the screen will light up the screen and display the Home screen automatically.

DOO	R ENTRY		
		2	sos
		3	ণ্ট
		4	Š
		5	
		6	Ð
		7	Q
Mo 01	8 /01/2018 00:58 €	8 3 P	Ø 🌢
No.	Function		
1	Function page "★" means home screen, "—" means extra screen. This indoor station has 1 home screen and 1 extra screen. The content of extra screen can be customized on "System settings" -	-"Engine	ering settings".
2	SOS In standby mode, hold SOS for 3 s to send SOS to the guard unit.		
3	Intercom In standby mode, click to enter intercom screen. Please see the	"Intercom	n" chapter.
4	Call guard unit In standby mode, click to call guard unit. Please see the "Call gu		
5	Pager In standby mode, click to initial an intercom call to all indoor stati apartment. Please see the "Pager" chapter.		

DOC	DR ENTRY		
		2	sos
		3	Ŷ
		4	ğ
		5	()
		6	Ð
		7	Q
Mo 0	8 1/01/2018 00:58 €	8 }	⊕ .
No.	Function		
6	History In standby mode, click 🕐 to view the history records. Please see the	ne "Histor	y" chapter.
7	Voice message In standby mode, click P to view the voice messages. Please see chapter.	the "Voic	e message"
8	Status bar Display the date, time and the status information for this indoor statio	n.	

9.2 Incoming call

9.2.1 Call from outdoor station/gate station

This device displays an image as full screen view by default when receiving an incoming call. Clicking anywhere on the screen will switch to the normal screen view.

OS	04 1				1
2			3 🗖	4 📊	
				5 ంి	
				6 🖲 rec	
				OS 04 7	
				— ◀) 3 8	+
Tu 1	8/09/2018 13:03 🕤		£		٠
Tu 1 No.	8/09/2018 13:03 🕤		£	n P O	۵
			£) P Ø	۵
No.	Function	ation/gate station.	£		•
No. 1	Function Caller ID				•
No. 1 2	Function Caller ID Display image from outdoor st	to switch to full screen.			rsation.
No. 1 2 3	Function Caller ID Display image from outdoor st Click anywhere on the screen Snapshot manually Click to capture and save pictu Press to talk	to switch to full screen.	nory when ringing o	or during a conve	
No. 1 2 3 4	Function Caller ID Display image from outdoor state Click anywhere on the screen Snapshot manually Click to capture and save picture	to switch to full screen. Ires to the internal men switch the speech dire	nory when ringing o	or during a conve	de.
No. 1 2 3 4 5	Function Caller ID Display image from outdoor str Click anywhere on the screen Snapshot manually Click to capture and save picture Press to talk Press Image and hold for 3 s to Record audio and video Press Image to record audio and video	to switch to full screen. ures to the internal men switch the speech dire deo to the SD card who	nory when ringing o	or during a conve	de.

GU	
Tu 1	8/09/2018 13:15 🔂 🔒 🖓 🥥 🌲
No.	Function
1	Caller ID
2	Press to talk Press and hold for 3 s to force the speech direction from this device to other side.
3	Volume Click "+" or "-" to adjust the volume.

9.2.2 Call from guard unit/indoor station

9.2.3 Call from doorbell

When the doorbell is pressed, the device will display $\overset{(m)}{\longrightarrow}$ for 5 s on the status bar.

If the doorbell is associated with the camera in the camera list settings, the device will display the corresponding camera automatically for 15 s. Please see the "Visual doorbell" chapter for more details.

9.3 Intercom

9.3.1 Enter intercom page

In standby mode, click on the home screen to access the corresponding screen.



9.3.2 Add contacts

On the "Intercom" screen, click ret to access the settings. Click "+" to create a new contact.

DOOR ENTI	RY INTERCOM		و من من م
Intercom con	tacts		~
	Add contact 🕂	Delete All	
	Add contacts		
	Intercom contacts	Jacky	
	Туре	House to house 🗸	
	Room number	2	
	×	ОК	*

9.3.3 Initiating an intercom call

On the "Intercom" – "Favorite contacts" screen, click	to initial an intercom.
---	-------------------------

DOC	OR ENTRY						
Inte	rcom contacts						۶
	Favorite contacts			Blocked			
Jack	κy	House to house	2				
Livin	ng room	In house				Ľ	
Jack	y 1						
					2	0 ~	
					Jacky		
						3 📢	+
					3		
Tu 18	/09/2018 13:43 🔄	3		£	ρ	Ø	
	103/2010 10.40 2			Ľ			
No.	Function						
1	Caller ID						
2	Press to talk						
	Press and ho	ld for 3 s to force the speecl	h direction from	this devi	ce to othe	r side.	
3	Volume Click "+" or "-" to a						

9.3.4 Add to blacklist

On the "Intercom" – "Favorite contacts" screen, click real to access the corresponding screen. Select "Blocked" from the drop list to add the contact to blacklist.

DOOR ENTRY				
Intercom conta	cts			~
Add contact 🕂 Delet			Delete All 🔟	
Jacky	House to house	2	Blocked 🗸 į	<u>ن</u>

It is possible to add a contact to the blacklist directly on the "History" screen.

On the "History" screen, click to add the caller ID to blacklist directly. Only the caller ID on the favorite list can be added to the blacklist.

DO	OR EN	TRY	HISTORY						
All	history	records	_						~
		Delet	te All 🔟		Copy Sna	apshots to SI) Card	₩]	
		Jacky		Take call	01/01/2018	05:14:41	Ø	Ū	
		Jacky		Missed	01/01/2018	05:12:10	\oslash	Ū	
		IS 009		Missed	01/01/2018	05:05:32	Ø	Ū	
		IS 009		Missed	01/01/2018	05:04:58	\oslash	Ū	~
		OS 04		Missed	01/01/2018	01:56:22		Ū	~
Mo 0	1/01/201	8 05:15	5 🕤			£	2	Ø	

9.3.5 Restoring a contact from the blacklist

On the "Intercom" – "Blocked" screen, click 📕 to access the settings.

DOOR ENTRY	INTERCOM			Ť				
Intercom contacts	Intercom contacts							
Favorite	e contacts	Bloc	ked					
Jacky	House to house	2		S.				
Mo 01/01/2018 04:	30 🕤		£	> •⊙	۵			

Select "Allowed" from the drop list to add the contact to favorite contact list.

DOOR ENTR'	Y INTERCOM					71. – 2
Intercom conta	acts					~
Add contact 🕂			Delete All	١.		
Jacky	House to house	2	Allowed	~	Ū	
Mo 01/01/2018	04:31 🐔		₿	Q	Ø	٩

9.4 Surveillance

9.4.1 Surveillance without the camera list

In standby mode, press the button to start a surveillance if there is no camera list. Press the button again to quit the surveillance.

OS	04 1				
2	4 🔼 5 🖪				
	6 O				
	7 😐 rec				
	3 JOS 04 8				
	9 📢) 1 🕂				
Tu 1	8/09/2018 13:49 🔂 🔒 🖓 🥥 🌲				
No.	Function				
1	Caller ID				
2	Display the image of outdoor station or gate station.				
3	Click to see next image				
4	Click to see full screen image.				
5	Snapshot manually Click to take a snapshot and save the picture to internal memory during ringing and conversation.				
6	Press to talk Press and hold for 3 s to force the speech direction from this device to other side.				
	Record audio and video				

	Record audio and video
7	Press to record audio and video to an SD card during ringing and conversation when an SD card is inserted.
0	Select the camera
8	Select the image from drop-list.
0	Volume

9.4.2 Surveillance with the camera list

In standby mode, press the local button to access the "Camera list" screen if there is a camera list. Click the designated outdoor station or camera to view the image. Press the local button again to quit the surveillance.

Press the ⁶ button during the surveillance to initial a communication and press the ⁶ button again to end the call.

DOO	R ENTRY CAMERA LIST		ني.				
Came	CameraList						
	Outdoor station 02						
-	Camera 01	🗸 Visual doorbell					
, da	Camera 02						
1	Camera 03						
	Camera 04						
Mo 01/	01/2018 13:55 🔂	£ P 0	۵				

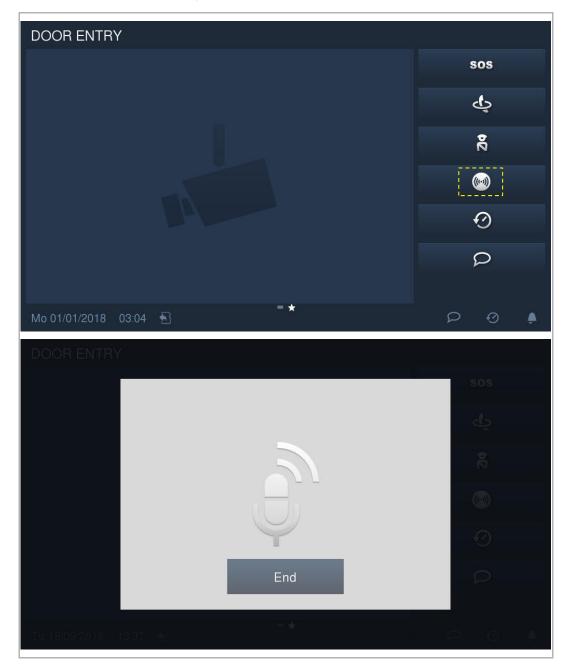
9.5 Call guard unit

DO	OR ENTRY	
		sos
		Ą
		20
		(0)
		Ø
		Q
GU	1	
		PI
		2 🔊
		e rec
		GU
		— 📣 3 🕂
		3
No.	Function	
1	Caller ID	
2	Press to talk Press and hold for 3 s to force the speech direction from this device	ce to other side
3	Volume Click "+" or "-" to adjust the volume.	

In standby mode, click on the home screen to call guard unit.

9.6 Pager

In standby mode, click on the home screen. This indoor station will initial an internal call to all indoor stations in the same apartment. This broadcast will last maximum 30 s.



9.7 History



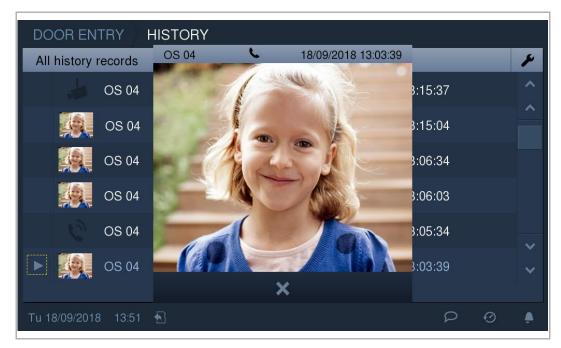
In standby mode, click 🙆 to view the history.

A maximum of 100 DES communication records can be stored. Highlighting indicates that the record is unread.

DOOR ENTRY	HISTORY					
All history records	S					۶
OS 0	4	Unlock	18/09/2018	13:15:37		$\hat{}$
🧕 OS 04	4	Missed	18/09/2018	13:15:04		
🧕 OS 04	4	Missed	18/09/2018	13:06:34		
OS 04	4	Missed	18/09/2018	13:06:03		
C os o	4	Missed	18/09/2018	13:05:34		~
OS 0.	4	Take call	18/09/2018	13:03:39		~
Tu 18/09/2018 13:5	i0 🕤			Q	Ø	۲



Click the image to view details in the pop up window. Click "<" or ">" to change the images. (max. 3 pictures for each record)



Click to play the audio or video record in the pop up window (an SD card must be inserted)

63

Click to enter the settings.

It is possible to delete history records one by one, or to delete all the records at once with one click.

Snapshots can be copied to the SD card if an SD card is inserted.

DO	OR EN	ITRY	HISTORY						1 11
All	history	records							~
Delete All 🔟			Copy Sna	apshots to S	D Card	d ₩]]			
		OS 04		Missed	01/01/2018	00:19:49		Ŵ	
		OS 04		Missed	01/01/2018	00:19:31		Ŵ	
		OS 04		Missed	01/01/2018	00:19:19		Ŵ	
		OS 04		Missed	01/01/2018	00:18:59		Ŵ	
		OS 04		Missed	01/01/2018	00:58:25		Ŵ	~
Mo 0	1/01/201	8 02:04	•				2	Ø	۵

If the disk space of SD card is full, will be displayed on the status bar.

9.8 Voice message

DOOR ENTRY	
	SOS
	¢
	34
	()
	Ð
	Q
Mo 01/01/2018 03:04	P 0 🖡

In standby mode, click $\stackrel{$\ensuremath{\mathcal{P}}$}{}$ to access the corresponding screen.

Click ***** to access the settings. Click "+" to add a new voice message.

Click the Rec button • to start recording a voice message and click the Play button > to play the voice message.

A maximum of 10 voice messages can be recorded.

DOOR ENTRY	VOICE MESSAGES		n 20
All Managers New message			-1
0 Second		60 Second	
	e rec		
-			
	×		
			ar.

9.9 Absence message

This device is able to leave voice message for visitors and to record voice message from visitors.

Enable "Absence message"

At least one voice message must exist before this function can be used.

On the "Voice message" screen, tick the check box to enable the function.

DOOR E		MESSAGES		
All Messa	iges			 ✓
Record voice message 🕂			Delete All 🔟	
Local	04/01/2018	22:18:00	🗹 Absence Message	Ū.
Th 04/01/20	18 23:04 🕤		P	0 🌲



Note

The functions "Call forward" and "Auto unlock" will be disable if this function is activated.

Disable "Absence message"

On the extra screen, click "Leave home management" to access the screen.

	i	1				
	; ≙	Ŷ	0	¢		
	LEAVE HOME MANAGEMENT	SWITCH ON LIGHT	UNLOCK	SYSTEM		
	·					
Mo 01/	01/2018 01:25 🕤	E.	ā.	ê p	Ø	

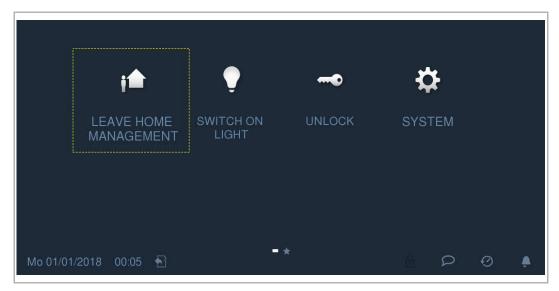
Click the radiobutton to "OFF" to disable the absence message function.

1 Leave home manage	ment					12
Messages leaving						
Messages leaving function					off	
 Auto-unlock is disabled function is activated. 	d for security reas	on, when Leave ho	ome n	iessage		
Call forward						
Call forward function					off	
Target type	Address	Forward	d After	(sec):		~
Th 04/01/2018 22:12 🔂			£	Q	Ø	۵

9.10 Call forward

This indoor station is able to forward an incoming call to another apartment or guard unit automatically.

On the extra screen, click "Leave home management" to access the screen.



When the function is enable, it is possible to select the indoor station or guard unit to forward the incoming call. Forward time can be set to 1...30 s.

★ Leave home manage	ement		
e function is activated	d.		^
Call forward			
Call forward function		on	
Target type	Address	Forward After(sec):	
Indoor station 🛛 🗸	2	5	
 Auto-unlock is disable is activated. 	ed for security reason,	when Call Forward function	
is activated.			×



Note

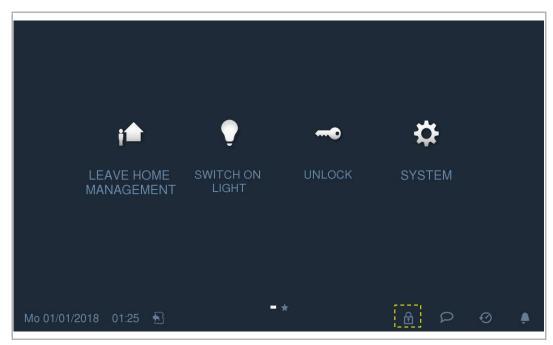
The functions "Absence message" and "Auto unlock" will be disable if this function is activated.

9.11 Automatic unlock

On the "Engineering settings" – "Device settings" screen, tick the checkbox to enable the function.

Engineering se	tting				
Engineering setting					
Device settings		Device settings			*
Customized page		Surveillance mode Manual Snapshot			
Engineering pwd		Enable auto. door unlock			
Clear all data		Copy Snapshots to SD Card			
		Enable to delete history data			
		Enable to edit camera list			
					~
Mo 01/01/2018 01:26	1		Q	Ø	

Click $\widehat{\Box}$ on the status bar to access the screen.



Click 📕 to access the settings. Click "+" to add a new one.

The system allows you to select the days of the week, with the selected options shown in highlighting.

Auto unlock
 Add automatic unlock setting
 Mo
 Tu
 We
 Th
 Fr
 Sa
 Su
 Start time
 End time
 01 : 23
 02 : 23
 - +
 - +
 O1 : 23
 02 : 23
 - +
 O2 : 23
 - O2 : 23
 - - +
 O2 : 23
 - - +
 O2 : 23
 - - - +
 O2 : 23
 - - - +
 O2 : 23
 -<

After setting the start time and end time, click "OK" to save.

This device supports a maximum of 10 auto unlock settings.

| 🔶 Auto unlock | | |
|---------------|---------------|----|
| Overview | | ¥ |
| | Disable all 🖘 | |
| 🗝 Mo-Fr | 07:00-17:00 | on |
| 🗝 Sa | 09:00-12:00 | on |
| | | |



Note

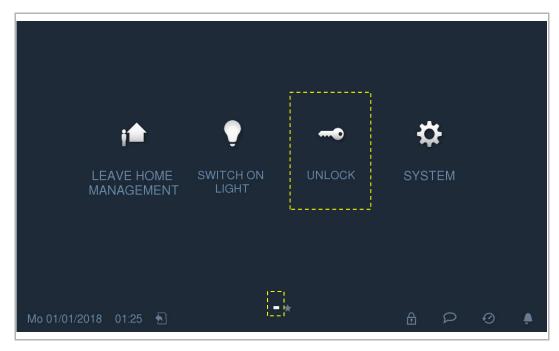
The functions "Absence message" and "Call forward" will be disable if this function is activated.

9.12 Standby unlock

On the "Engineering setting" - "Customized page" screen, tick the checkbox to enable the function.

| Engineering se | tting | |
|---------------------|-------|---|
| Engineering setting | | |
| Device settings | | Customized extra page |
| Customized page | | ✓ Unlock ✓ Switch on light |
| Engineering pwd | | Switch on light Leave home management |
| Clear all data | | |
| | | |
| | | |
| Mo 01/01/2018 01:39 | • | ₽ @ ₽ |

On the extra screen, click "Unlock" to access the screen.

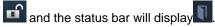


Click 📕 to access the settings. Click "+" to add a new setting.

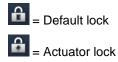
Please refer to below table to complete the setting.

| 🔶 Unloc | ck | | ✓ |
|----------------------|---|---|------------------|
| Lock1 | Actuator1 | ▶ + | |
| | Edit | | |
| | Type Default lo | ck | ~ |
| | Address 2 | | |
| | Name Lock1 | | |
| | × | ОК | |
| | | | |
| | | | |
| We 05/12/201 | 8 14:03 🔂 | £ | ۹ |
| We 05/12/201
Type | 8 14:03 🕤
Description | Address | Connected object |
| Туре | | | Connected object |
| | Description Lock is connected to outdoor | Address | |
| Туре | Description Lock is connected to outdoor station. Lock is connected to switch | Address
Address = 19
Unlock mode (1>OFF, 2>ON)
Address = 19 (associated with | |

On the "Unlock" screen, click on a designated lock to release that lock. The screen will display



This device supports a maximum of 16 standby locks.



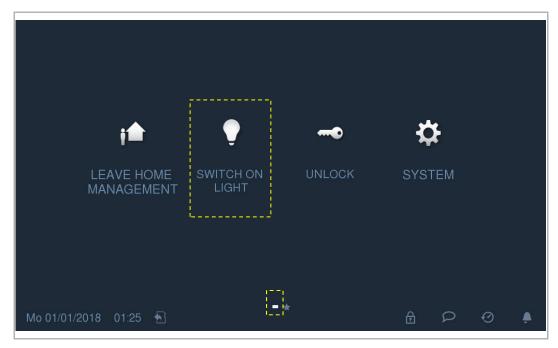
| 🔶 U | Inlock | - | <u></u> | . | ¥ |
|----------------------|--------------|-------|-----------|--------------|-----|
| Lock1 | | Lock2 | Actuator1 | Lock3 | ₽ |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Mo 01/0 ⁻ | 1/2018 02:08 | £ 1 | | A P | ⊘ ♠ |

9.13 Standby switch on light

On the "Engineering setting" - "Customized page" screen, tick the checkbox to enable the function.

| Engineering setting | | | | | |
|---------------------|---|---|--|--|--|
| Engineering setting | | | | | |
| Device settings | | Customized extra page | | | |
| Customized page | | ✓ Unlock ✓ Switch on light | | | |
| Engineering pwd | | ✓ Leave home management | | | |
| Clear all data | | | | | |
| | | | | | |
| | | | | | |
| Mo 01/01/2018 01:39 | • | ₽ 0 ₽ | | | |

On the extra screen, click "Switch on light" to access the screen.



Click 📕 to access the settings. Click "+" to add a new setting.

Please refer to the table below to complete the setting.

| ★ Switc | h on light | | | | | | | v |
|--------------|----------------------------|--------------|-------------------------------|----|------|------|---|----------|
| | Add new | | | | | | | |
| | Туре | Actuator | | | | | | |
| | Address | 3 | | | | | | |
| | Name | Light | | | | | | |
| | × | | | OK | | | | |
| | | | | | | | | |
| Mo 01/01/201 | 8 03:23 🕤 | | | | ₿ | Q | Ø | ۵ |
| Туре | Description | | Address | | | Conn | ected o | bject |
| Actuator | Lock is connecte actuator. | ed to switch | Relay mode (1
Address = 1? | |)FF) | | a Sana
Antoninat
Mana
Baran
Baran
Haran
Haran | |

On the "Switch on light" screen, click on a designated light icon to turn on the light. The screen will display and the status bar will display. This device supports a maximum of 16 standby lights.

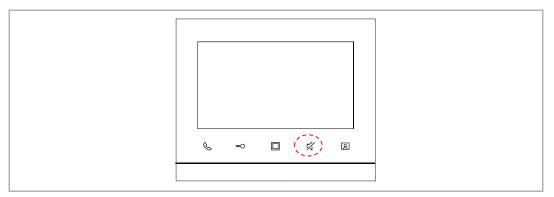
| ★ Switch on light | | | | | | | |
|-------------------|-------------|-------------|-------------|--|--|--|--|
| Light1 | Light2
O | Light3
Ö | Light4
Ç | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Mo 01/01/2018 (| 00:41 🔂 🏶 | | P 0 🖡 | | | | |

9.14 Mute

Mute button

Tap the $\cancel{1}$ button to mute the ringtone on the device. Tap this button again to unmute.

Press the 🕅 button and hold for 3 s to mute the ringtone of all indoor stations in the same apartment.



The device will display 🌽 on the status bar if the function is enabled.

Mute icon

A mute timer can be set to enable the device to be unmuted automatically.

- [1] Click on the status bar and select "Mute timer" to access the settings.
- [2] Click "+" or "-" to set the value for hour and minute. Click "OK" to save.

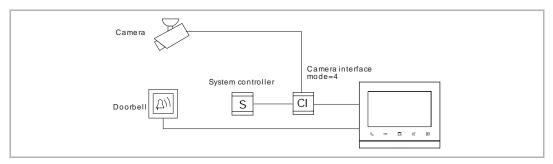
| DOOR ENTRY | |
|------------|--------------|
| | sos |
| Mute timer | Ŷ |
| Mute time | |
| 00 : 30 | Q |
| 00.00 | () |
| FA+- | \mathbf{O} |
| | 9 |
| Хок | Q |
| | |

- [3] Click again and select "Activate mute". This indoor station will mute the ringtone immediately and display immediately and display and the status bar.
- [4] When the countdown is complete, the indoor station will unmute automatically and display
 on the status bar.

9.15 Visual doorbell

With this setting, the indoor station is able to display the image form the camera when the doorbell is pressed.

[1] The camera should be connected to the camera interface. Please refer to the following diagram.



- [2] The camera interface needs to be associated with this device. (mode = 4) Please refer to the product manual of camera interface.
- [3] The function "Visual doorbell" should be enable before the use. Please refer to the chapter "Camera list".

9.16 Clean screen

The indoor station is able to block all operations during screen cleaning.

On the "System Settings" screen, click "Display", followed by Sto access the screen.

| ★ System Settings | | | | | |
|-------------------|----------------------|-------|--|--|--|
| System settings | | | | | |
| CameraList | Clean screen | | | | |
| Sound | | | | | |
| Display | Display | | | | |
| Date and time | Brightness | | | | |
| Door Entry System | | | | | |
| Language | ✓ ✓ Auto full screen | ÷ - 2 | | | |

The countdown (1...30) is displayed on the screen. Any operations on the screen will be invalid. This device will exit "Clean screen" mode if an incoming call is received.



10 FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Only operate the device in accordance with the instructions supplied.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

11 Cyber security

Disclaimer

Although ABB provides functionality testing on the products and updates that we release, you should institute your own testing program for any product updates or other major system updates (to include but not limited to code changes, configuration file changes, third party software updates or patches, hardware change out, etc.) to ensure that the security measures that you have implemented have not been compromised and system functionality in your environment is as expected.

Upgrading

Device supports firmware updates via SD card.

Malware prevention solution

The M2238 device is not susceptible to malware because custom code cannot be executed on the system. The only way to update the software is via firmware upgrades.

Password rule

The user must change the engineering password when accessing the engineering settings for the first time. This engineering password must not include continuously increasing or decreasing numbers (e.g. 12345678, 98765432) and three consecutive identical numbers are similarly not permitted (e.g. 123444, 666888).

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