



2-wire Video Intercom Systems Smart Home **DMC Series**



User and configuration manual

How to use and configure two-wire video intercoms



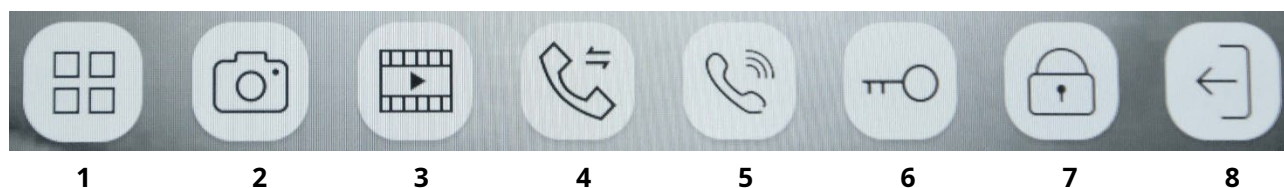
Contents of the manual

This manual shows how to use the DMC Series video intercom systems and how to configure their settings. functions. If you have not yet installed and connected the system components, it is worth reading Installation Manual first

How to answer a call

For example, if a visitor presses button 1 on a keypad, all monitors will ring.

matched to Plan 1 (family 1) and the camera image appears on the monitors together with the following command buttons



1 - Activate image adjustment

2 - Take a photo

3 - Record video

4 - After answering, it allows you to transfer the call to another monitor on the same floor

5 - Activate and close audio communication

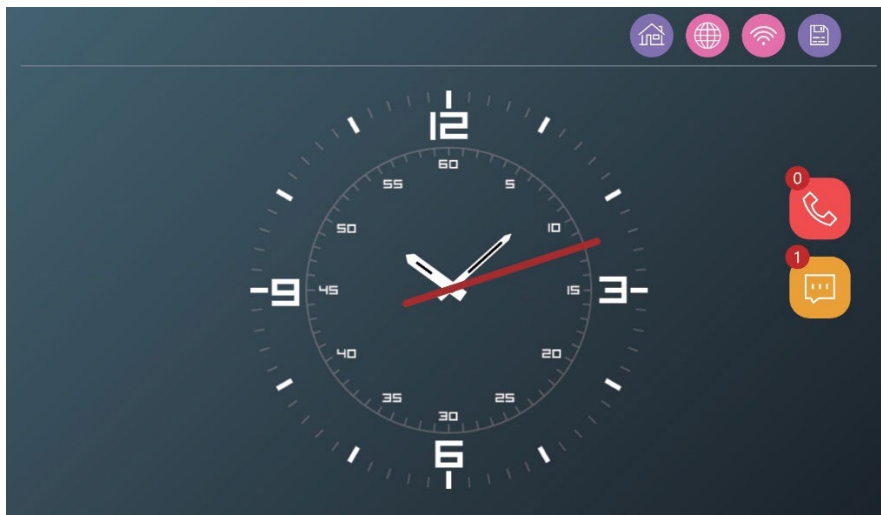
6 - Opens the LOCK1 door opener in the keypad that is calling












7 - Opens the LOCK2 door opener in the keypad that is calling

8 - Exit and turn off the camera

Notification icons

The monitors of these intercom systems display notification icons about the system status.



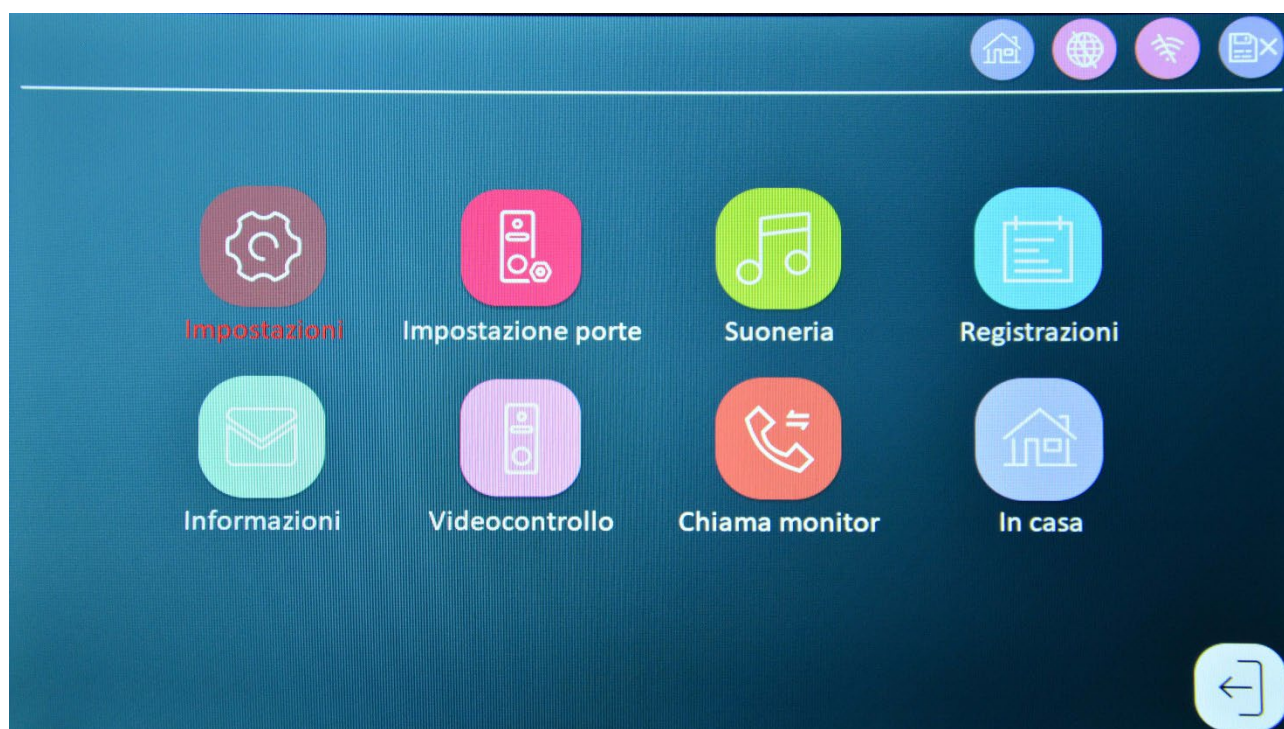
  	<p>This icon shows the current mode you have set the intercom system:</p> <p>AT HOME – Normal operation</p> <p>NOT AT HOME – The visitor is invited to leave a message</p> <p>DO NOT DISTURB – The monitor never rings</p>
 	<p>Tuya App Connection Enabled, Not Enabled</p>
 	<p>Access to the WiFi network done or not done</p>
 	<p>SD card status, present, not present</p>
	<p>Visitor Call Video Memory (number indicates missed calls)</p>
	<p>Messages left by visitors (number indicates unseen messages)</p>

Configuration

Two-wire video intercom systems are the ideal solution for homes with 1 to 4 interiors independent.

This manual explains how to configure the intercom system by acting in the main monitor setup menu. Setup is very important for assign each element its correct function in the system.

The configuration and usage menu is made up of 8 buttons which will be explained below.
for one.



Monitor-Interior Association

The most important setting of the video intercom system is to associate correctly the monitors to the different users which in turn are linked to the buttons of the button panels. To do this, press the first button of the on-screen menu of the first monitor (SETTINGS) which takes you to the general settings. The first section is the Settings of System. The second item is INTERNAL SETTINGS



INTERNAL SETTINGS – Clicking the gear icon opens this window which allows to match monitors to different families.



FAMILY PLAN–The word Piano can also be better understood with the word Family. plan/family represents an independent user within the intercom system, normally a family or an independent home. On each monitor of the system you can select: plan 1,2,3,4 thus assigning the monitor to the family 1,2,3,4. The Button 1 on the keypad always calls floor 1, button 2 calls floor 2 etc. This association is not editable.

INTERNAL–This entry is not currently used and should always be left on 1

DEVICE ID–If more than one monitor is installed within a plan, an ID will be assigned Device 1 to the main monitor, ID 2 to the second monitor, and so on. You can install up to 6 monitor on each floor (device ID 1 to 6). There MUST NOT be two on each floor monitor with the same device ID.

ASSOCIATION EXAMPLE.

Semi-detached villa with 2 families living in two independent apartments

The primary monitor of family 1 is set to Plan 1 and Device ID 1

Family 1's secondary monitor is set to Plan 1 and Device ID 2

The primary monitor of family 2 is set to Plan 2 and Device ID 1

Family 3 Secondary Monitor Sets to Plan 2 and Device ID 2

With this setting, if the call button 1 is pressed, monitors 1 will sound. and 2 of family 1.

CONFIGURATION MANUAL

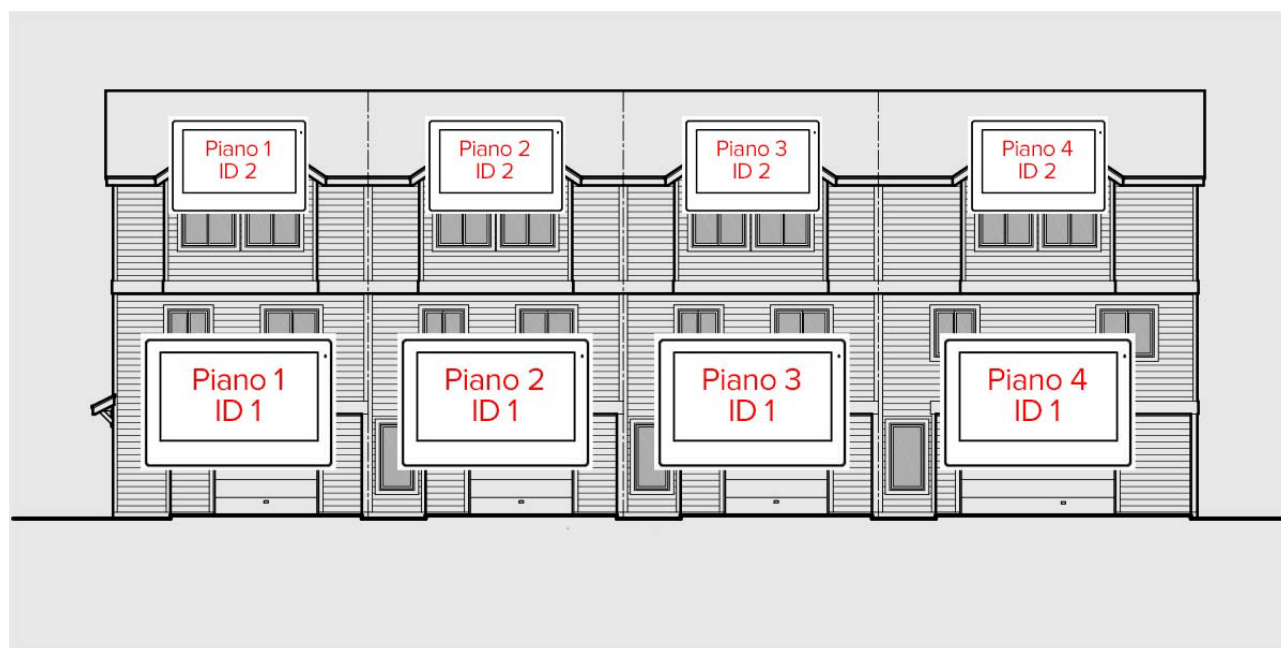
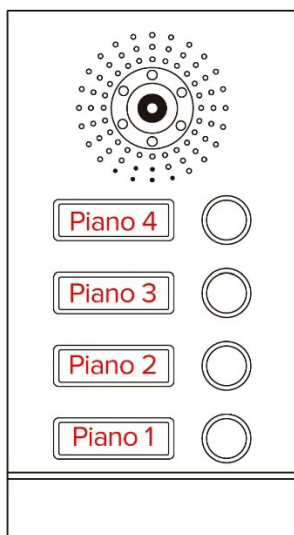
DMC Series 2-wire video intercoms



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Interior Association- push-button panels

In these intercom systems the association between the buttons 1,2,3,4 of the keypads and the floors 1,2,3,4 (families) is fixed. Button 1 on the keypads (the lowest one) always and only calls the floor 1, button 2 calls floor 2, and so on. This association cannot be changed, because this would bring more complexity in the configuration and no real advantage.

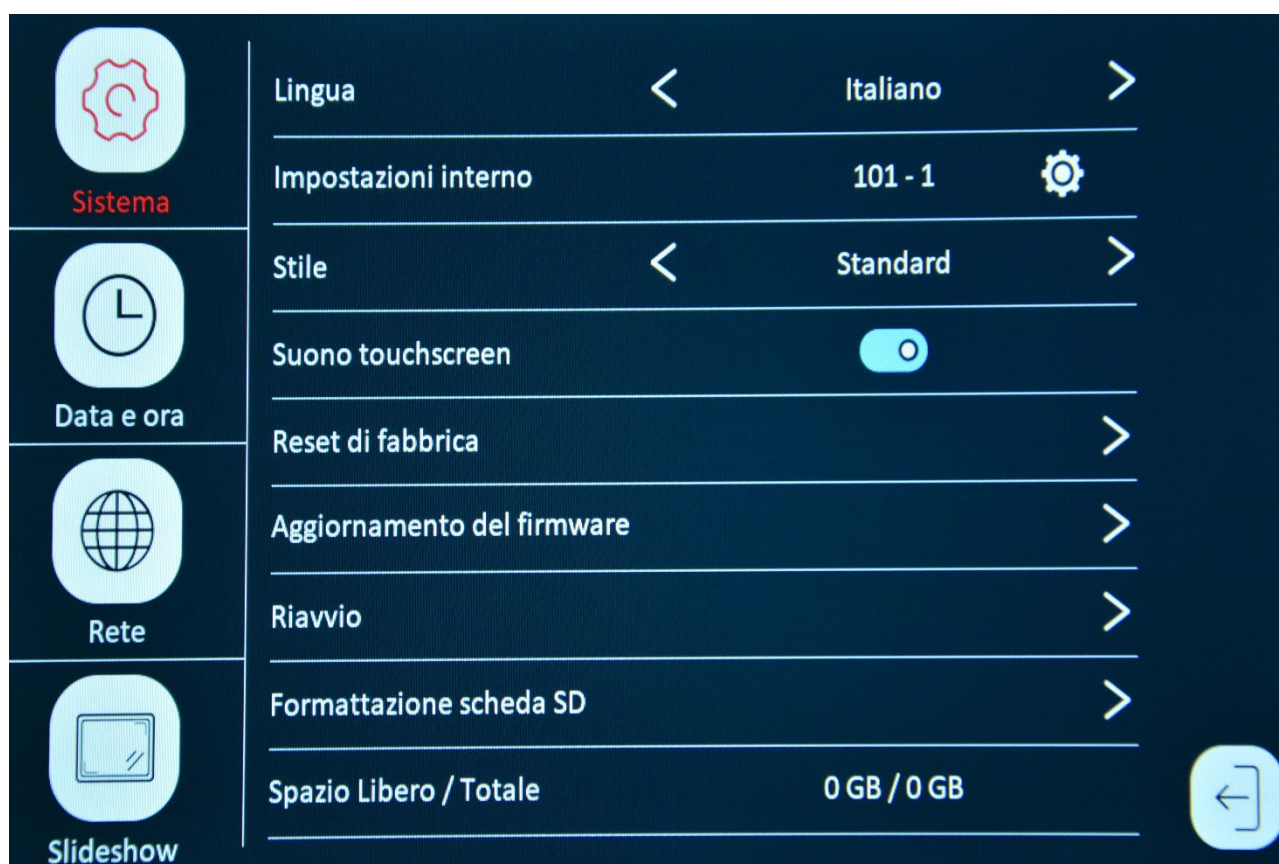


Settings

The first button on the monitors' on-screen menu (SETTINGS) takes you to the settings monitor general. Each monitor can be configured independently.

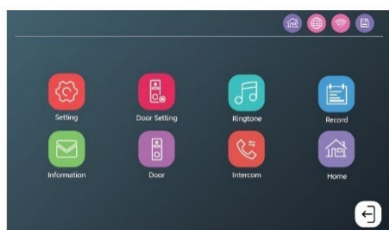


SYSTEM



INTERNAL SETTINGS – See previous chapters

STYLE – Choose the aesthetics of the configuration menu:



STANDARD



WINDOWS



ANDROID

TOUCHSCREEN SOUND – Enables confirmation sound when touching the screen

FACTORY RESET – You can restore the monitor to its factory settings. The reset affects the single monitor, not the other components of the system. If the monitor has been connected to the app Tuya Smartlife, after the reset you will have to delete it from the app and reload it again.

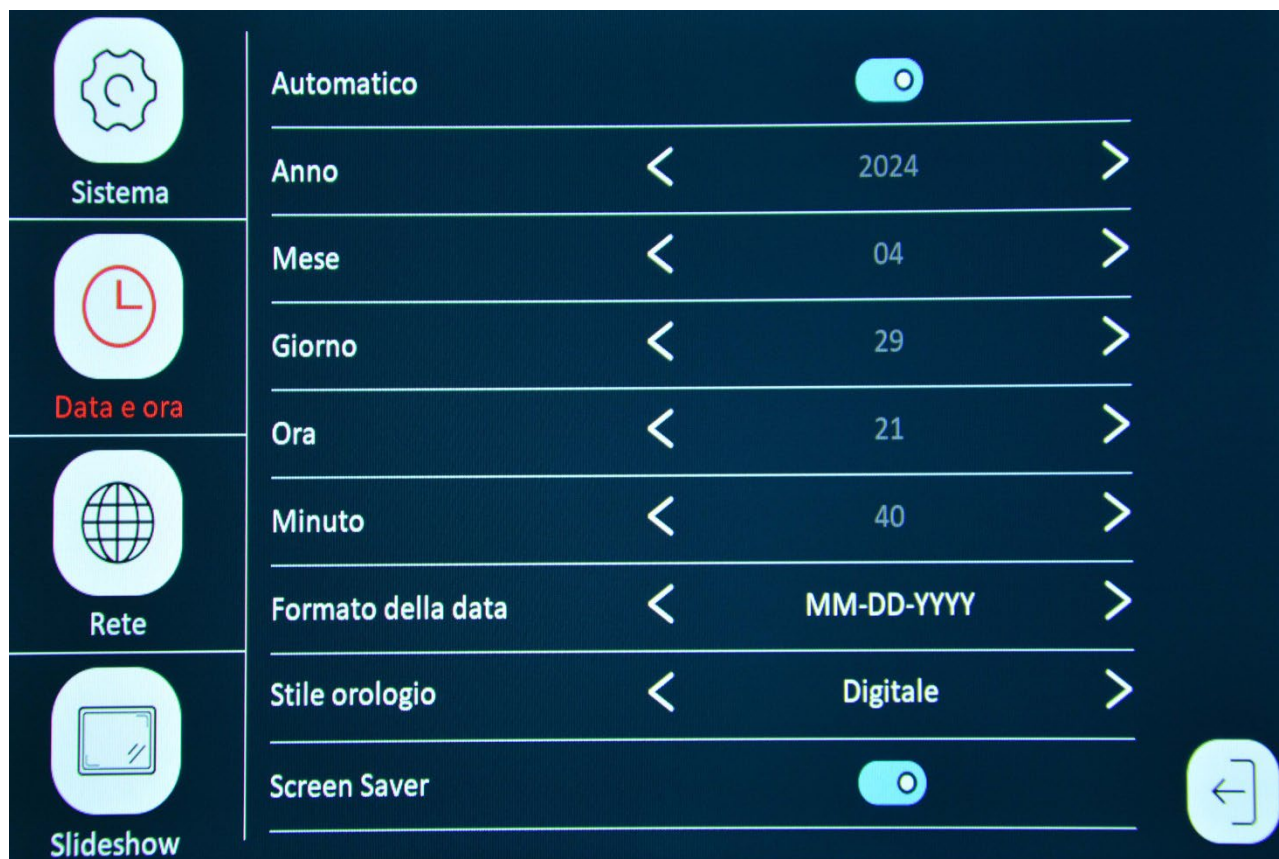
FIRMWARE UPDATE – You can update the firmware, if necessary, on our indication

RESTART – Restarts the monitor

SD CARD FORMATTING – Each monitor has a Micro SD card slot. If you insert a memory you can record video calls. Here you can format the microSD card, operation mandatory when you insert the card for the first time or when you want to delete everything content. You can use microSD cards of any capacity. Before inserting the SD card, It is advisable to format it with the computer in FAT32 (up to 32GB) or in EXFAT (from 64GB to 1TB). Without an SD card the system still works, but it is not possible to record, use motion detection, nor the slideshow on the screen.

SPACE – If the SD card is present and formatted, here you can see the free and total capacity of memory.

DATE AND TIME



AUTOMATIC – If enabled, the date and time are automatically adjusted via the Internet

DATE FORMAT – In Italy we usually use DD-MM-YY

CLOCK STYLE – Change the look of the clock displayed as an overlay on the monitor

SCREEN SAVER – If enabled, the screensaver activates after 10 seconds of monitor inactivity.

The screensaver shows images with the clock and possibly information superimposed weather. If you disable the screensaver and slideshow, after 10 seconds of inactivity the monitor will turn off.

NET

This window is only accessible from the main monitor of each floor (Device ID 1). It does not

It is available in secondary monitors (ID 2,3..)



CODING – This parameter concerns the video encoding used by IP cameras.

external ones to connect to the intercom. You can set the H264 or H265 encoding depending on the encoding used by your cameras. The system does not support other encodings and allows you to connect cameras with maximum resolution 2MP 1080P. In our IP cameras series

RK video encoding and resolution are freely configurable.

WIRED NETWORK SEGMENT – This is the address class that the video intercom uses for its internal network. If it is set to, for example, 0, it means that the primary monitor will assign IP addresses of the type 192.168.0..... to the system elements, such as monitors and button panels.

If your external wifi network, to which you connect the monitor, uses the same address class 192.168.0

It is advisable to set this IP segment to a different value, such as 2 or 3 for example, in so that devices connected to your external network do not conflict with IPs

of the internal network of the intercom causing malfunctions.

You also need to set a different IP segment if you are installing two systems

independent video intercoms connected to the same wifi network, in order to avoid the addresses

IP addresses of one system conflict with those of the other system.

WIFI SEARCH – If you want to be able to manage your system via the Internet with the Tuya SmartLife app

you need to connect the main monitor of each floor (family) to the router wifi. Here you can search

the wifi network, enter the access password and connect. The monitors only support WiFi networks

2.4GHz so it is not possible to connect to 5GHZ networks.

SSID – Shows the name of the wifi network the monitor is connected to

WEATHER – If you enable this function the monitor retrieves weather information through

Internet and displays them as an overlay during standby.

The DMC Series video intercom systems can be controlled with the Tuya app, like all our

equipment intended for home automation. To use the Tuya SmartLife app, do

refer to the app specific manual.

SLIDESHOW



ENABLE – If you enable the slideshow, the monitor will show the photos you have uploaded in sequence in the microSD card when it is in standby. Photos must be uploaded with the computer to the



DigitalFrame folder that the monitor automatically creates on the memory card when you formats the SD card. You can upload photos in JPG format (recorded horizontal) and a maximum resolution of 2526x1576.

INTERVAL – You can choose the duration of each slide

The slideshow automatically activates after 10 seconds of monitor inactivity

Setting up ports

The second button of the on-screen menu allows you to configure the keypads and/or keyboards external parts of the plant.



This operation can only be performed from a primary monitor (with device ID 1) and not from secondary monitors. The configuration of the keypads is the same for all floors.

Remember that the assignment of the keypad number (1,2,3,4) is not programmable but

It happens automatically based on the order in which the first ignition occurs.

In this window you can choose the keypad to configure in the left column.



12V FROM MONITOR – This option is not used at the moment

IP – Shows the network IP address that has been assigned to the keypad

OPENING DURATION – Sets the duration of the lock opening pulse (from 1 to 10 seconds). Check the lock indications. Normally the electric locks activate with pulses from 1 to 3 seconds.

BADGE/PW OPENING – Each keypad can manage 2 locks. Here you choose which locks



open when the badge or password is used directly on the keypad/keyboard
(1,2 or both)

RECORDING TYPE – Defines how to record when a call occurs (Video or
Photo)

LEAVE MESSAGE – You can allow the visitor to record a video message if
no one answers the call or if the AWAY operating mode is active.

You can choose the maximum length of the message.

QUALITY – Defines the quality of the video. The higher the quality, the more space it takes up.
in the recording

BITRATE – Defines the number of frames in the video. A higher bitrate gives sharper images.
smooth but takes up more space in the recording.

Ringtone

The third button in the menu allows you to set the monitor's ringtone.



SOURCE – You can use the device's factory ringtones, or use some files

customized ones that you can load into the folder called RING on the SD card in MP3 format.

RINGTONE – If you use the device source, you can choose between different sounds

VOLUME – Adjusts the ringtone volume

DURATION – Limits the maximum duration of the ringtone following a call

DOOR RINGER – Choose whether to accompany the internal ringer with the ding-dong sound in the keypad

DOOR VOLUME – Adjusts the volume of the speaker in the keypad. This adjustment

It affects all sounds emitted by the keypad, including the voice of the person answering internally, the ding dong of call and the welcome message. The factory setting is medium. In

In a quiet environment it is advisable to use a low volume, for example 2-3.

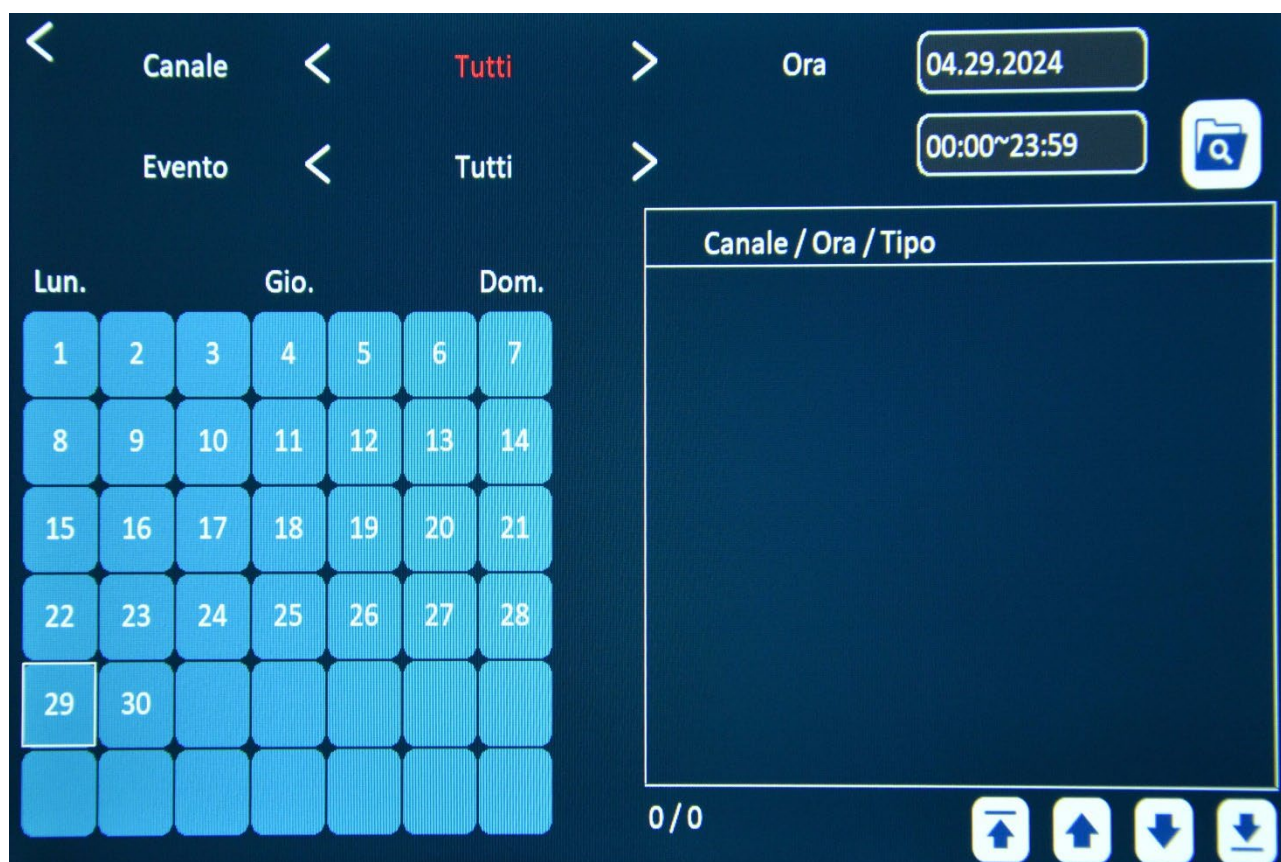
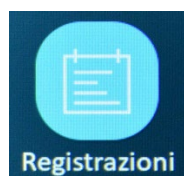
WELCOME MESSAGE – In newer firmware versions it is possible to disable the



welcome message that invites the visitor to come in when the door opens.

Recordings

The fourth button allows you to search and review call recordings, saved in the SD card memory.



The list shows all the recordings in memory. In the window you can filter by date and at the time. You can also filter a specific keypad (CHANNEL) and an event type (CALL (or LEFT MESSAGE)

Tap a file to play it



Information

The fifth button provides information about the system

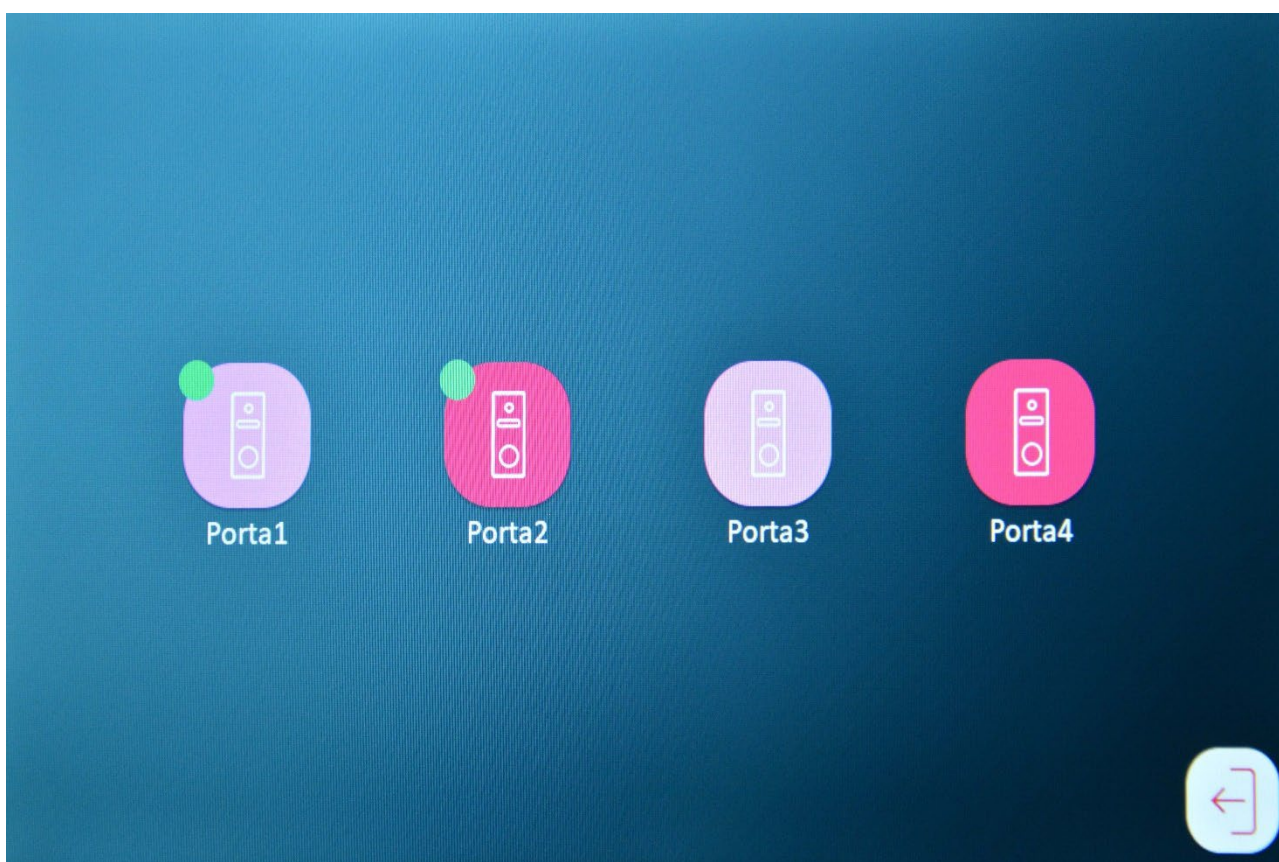
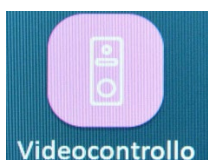


Versione del firmware	DBB-V1.01_Build_20240228
UUID	*16e2f11
WLAN	WLAN Non collegato
Server Tuya	Non collegato
LAN	192.168.0.15

System information. Of particular note is the SERVER TUYA item which certifies whether the monitor has it been linked to an account in the Tuya Smartlife app or not

Video surveillance

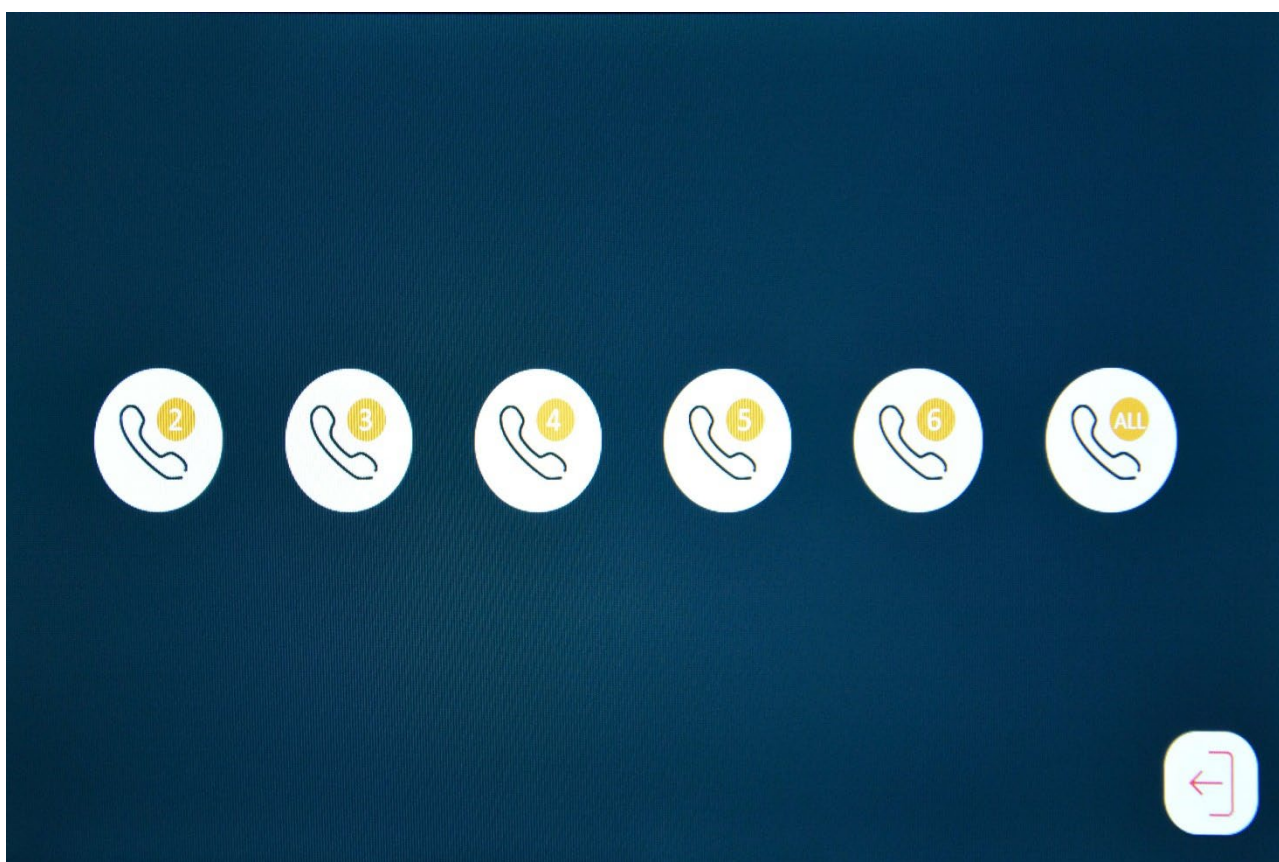
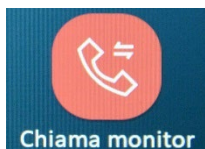
The sixth button allows you to activate communication with a keypad or keyboard manually, in the absence of a call.



Call monitor

The seventh button allows you to make an audio-only call to another monitor.

It is possible to make calls only between monitors that are part of the same plan/family.



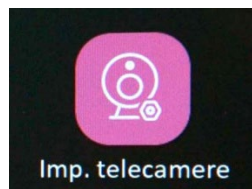
Add IP cameras external

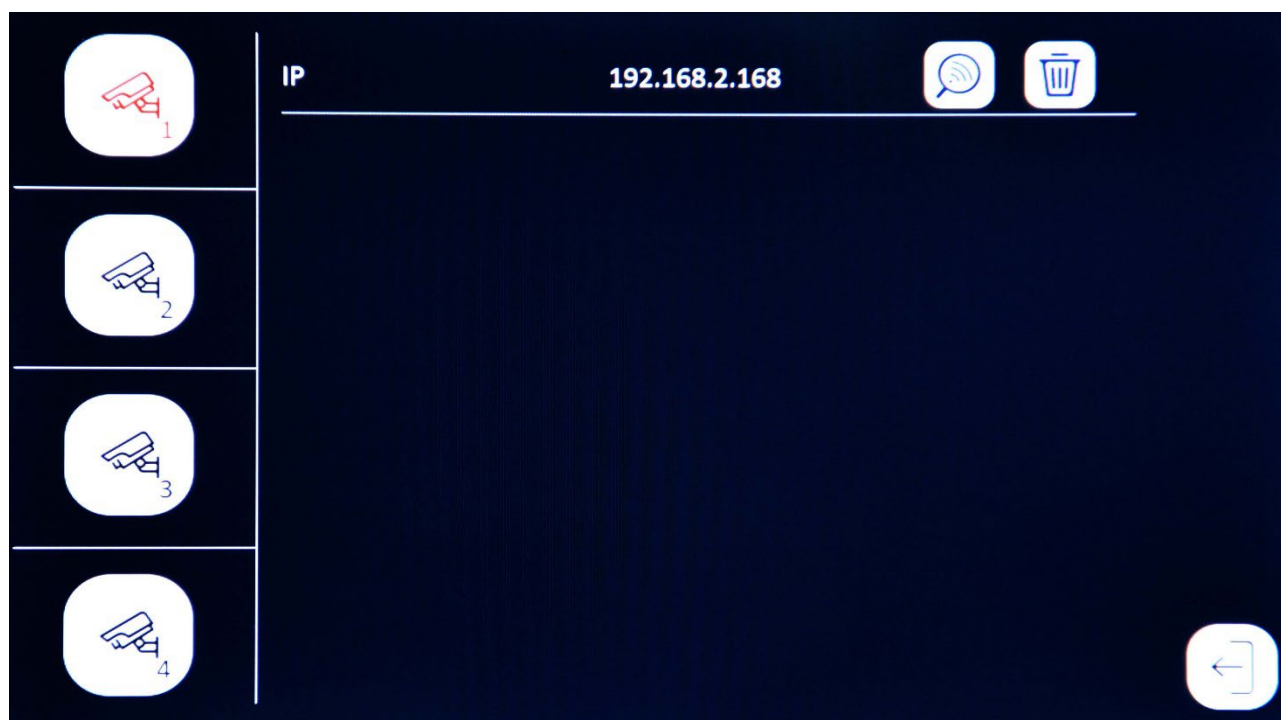
Domoticam video intercoms also allow you to view the image on the screen external Onvif IP cameras, connected to the network to which the monitor connects with its WiFi. You can connect up to 4 cameras and all our RK IP cameras up to 4K are compatible. maximum video resolution of 2MP 1920x1080. If you have higher resolution cameras, such as 5 or 8MP, you need to reduce the video resolution in the camera settings to be able to display in the video intercom.

The video intercom supports cameras with H264 or H265 video encoding. You can set the video encoding to use in the main monitor's network settings, as already described in this manual. In our RK Series IP cameras the video encoding of the camera is can set in configuration.

These cameras are not used as a replacement for the keypad camera, but in addition, to being able to control, for example, the opening of a garage door or the path of the visitor who enter the property. Additional cameras are only visible on the video intercom monitors, not remotely through the app.

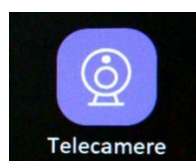
To set up the connection with external cameras, press the CAMERA SETUP button





With the search button you can start the automatic search for all connected IP cameras to the same network to which you connected the monitor. Domoticam detects all Onvif IP cameras of our RK series. At the end of the search, the list of cameras found on the network appears. Select the camera to connect and enter the username and password to access the camera.

To see the external cameras you have connected, when necessary, you must press the button CAMERAS

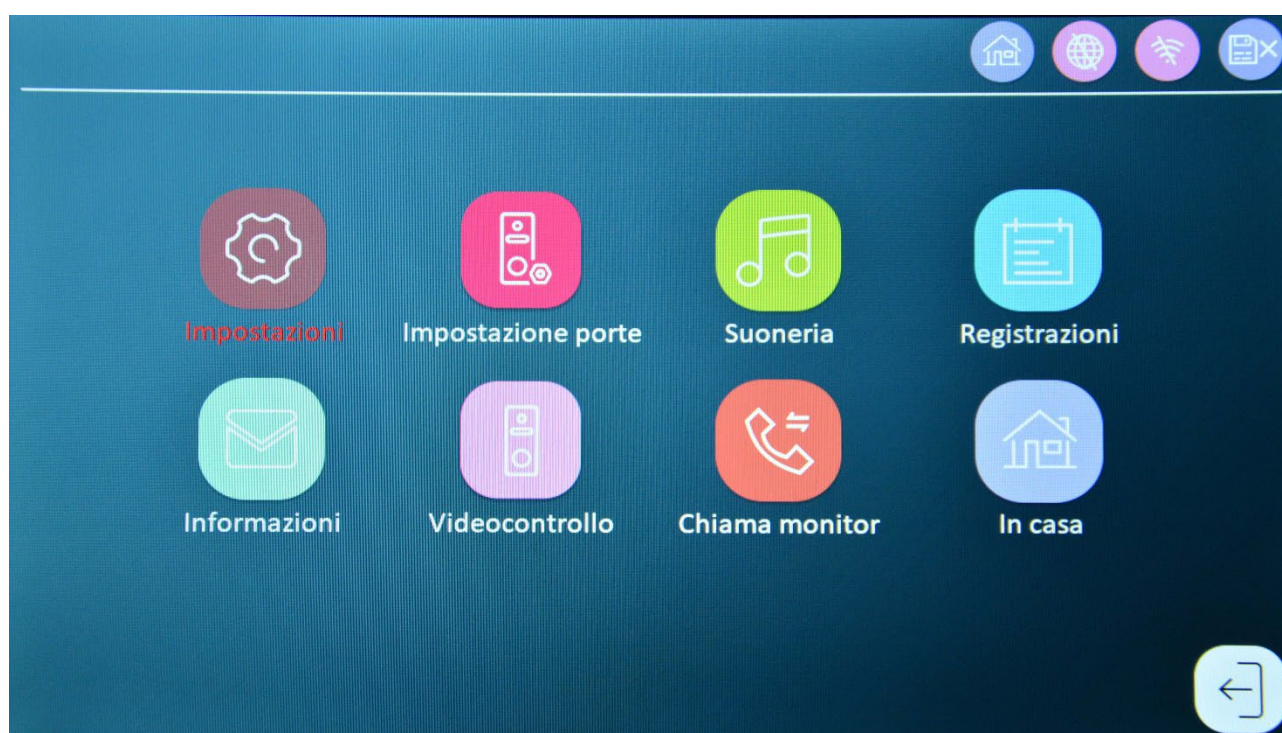
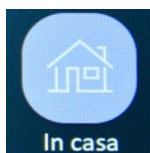




Connected cameras will be marked with a green dot and you can tap the icon to start real-time vision

Select plant status

The last button allows you to choose the operating state of the system that is activated manually as needed.



AT HOME – Normal operation. If the visitor presses button 1 for example, the alarms sound floor monitor 1. The visitor can leave a message if no one answers the call (if enabled in configuration)

NOT AT HOME – In case of a call the visitor is always invited to leave a message

DO NOT DISTURB – In case of call the monitor shows the camera and records the images, but it doesn't ring

The mode set on one monitor affects all monitors in the plan (family).