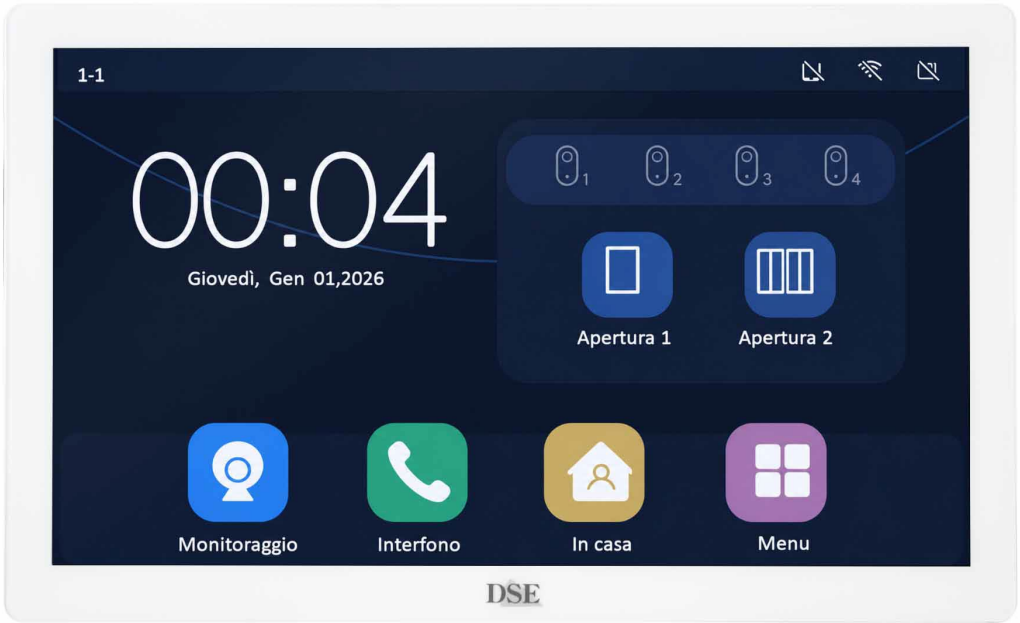
2-Wire Smart Home Video Intercom Systems

DMC-IQ 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-IQ Series video intercom systems and how to configure them. the functions. If you have not yet installed and connected the system components, it is worth reading first the**Installation Manual and wire all elements correctly**
of the plant.

First time monitor setup, guided setup

When you connect a new monitor to the bus for the first time, a setup wizard that allows you to establish the correct function of the monitor inside the intercom system.

ATTENTION
You must connect and configure the main monitor first.
system, selecting the First System Monitor option. This monitor will be the main monitor of the system and will configure the equipment you will connect subsequently. It is recommended to install the main monitor and keypads before Perform this initial setup on the first monitor. Other monitors can be connected even later.

Here are the steps of the setup wizard:





Select the language in which to display the monitor menu (default: Italian)



Choose the application scenario of your system

SINGLE FAMILY – The system serves a single family and uses one-button panels

MULTI-FAMILY – The system serves more than one family and uses multi-button panels

If you choose the single-family scenario, several options on the following pages, which concern the interior divisions will not be available. Additionally, several window options
The following will not be available on additional monitors or primary monitors other than the first.



FIRST SYSTEM MONITOR – Choose YES if you are configuring the first monitor installed in the system that will act as the main monitor. The main monitor defines various general functions of the entire system, not programmable from the other monitors, such as for example, the numbering of the push-button panels and the bus network parameters. The first monitor of the system must be configured first.
FAMILY – Assigns the monitor to family 1,2,3,4,5 which corresponds to buttons 1,2,3,4,5 on the keypad.
MONITOR FUNCTION – Defines the monitor's function within the family. You can Set up: Main monitor 1, or additional monitors 2,3,4. Each family must have at least one primary monitor, while any additional monitors are optional. Check that the family's main monitor has a good wifi signal.



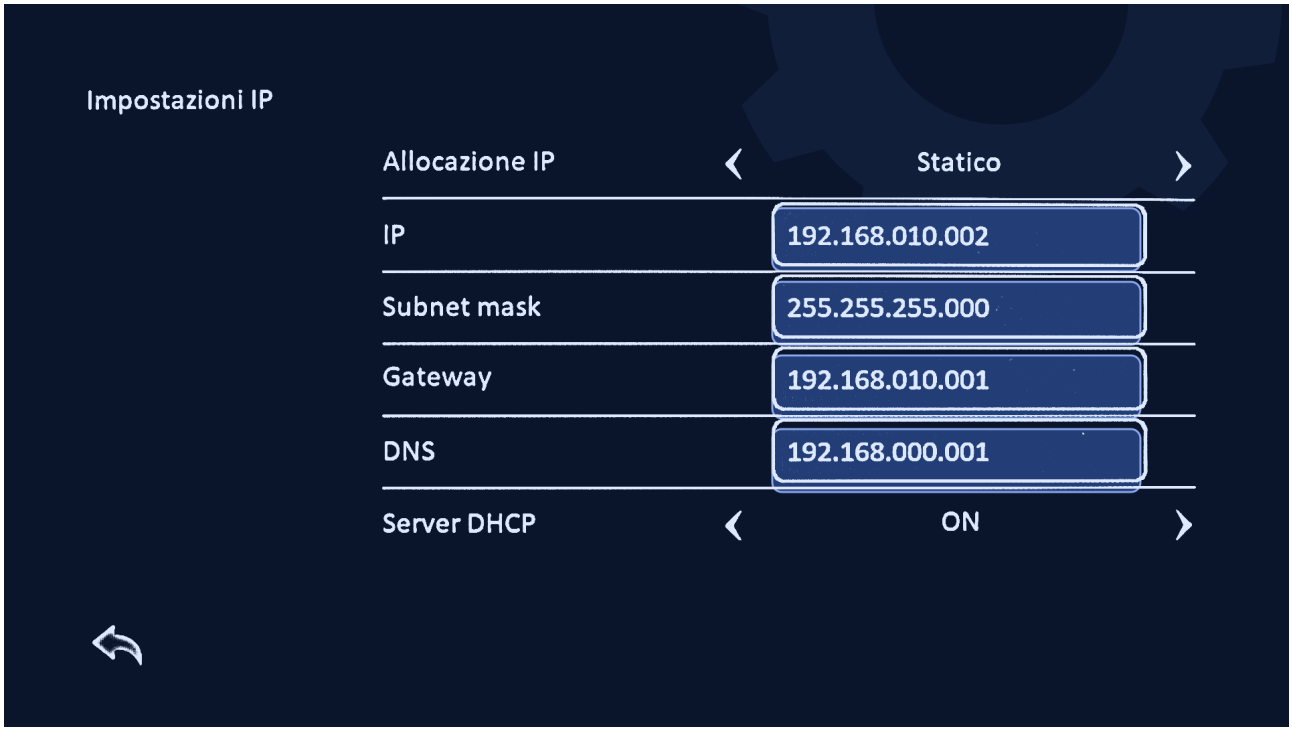
ADMINISTRATOR PASSWORD – If you want to protect the system from changes in the configuration, you can set an administrator password. This password will be necessary for factory parameter reset operations, equipment restarts and keypad settings.

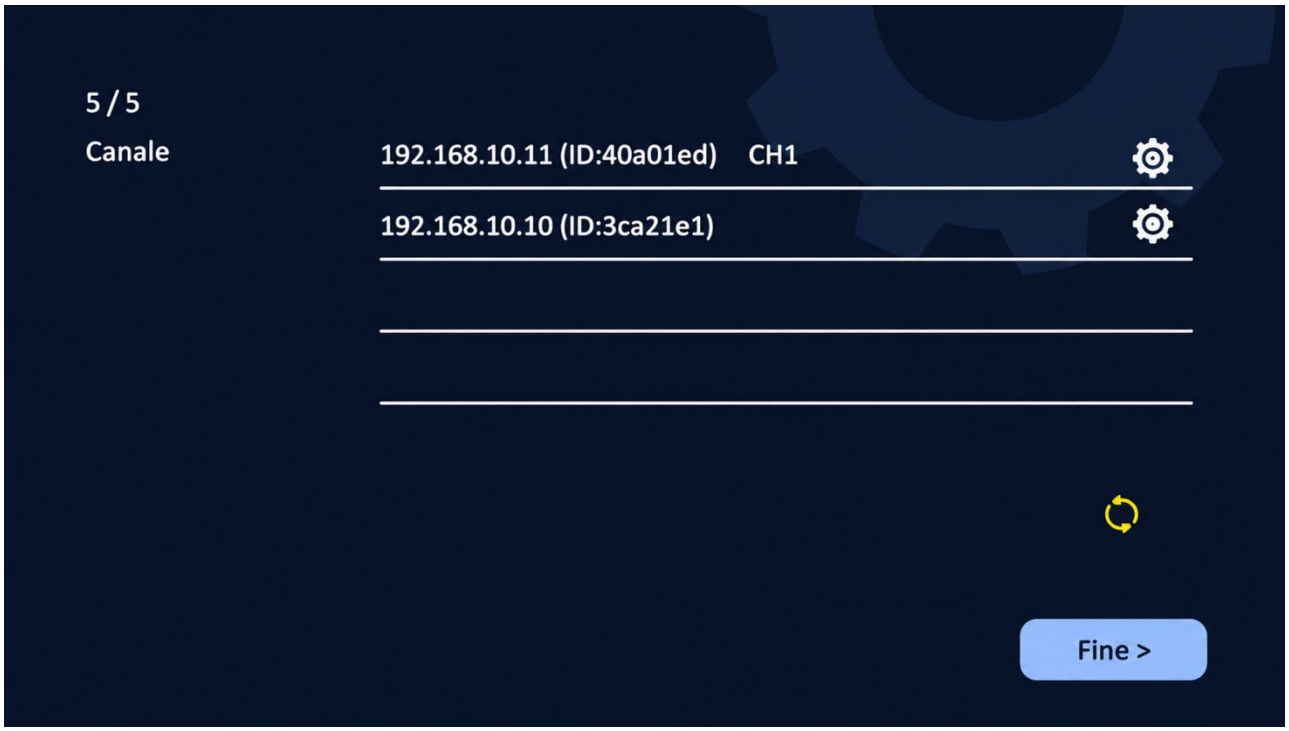


WLAN – If what you are setting up is the main monitor of a family, you can connect it to your home Wi-Fi network by enabling the WLAN selector. The search lens will activate in the line SSID and you can choose the Wi-Fi network to connect to by entering the credentials. In the initial configuration of the system you can also leave this option disabled for First complete the local installation. You can then connect to Wi-Fi in a second moment in network configurations.

LAN – Only in the first main monitor of the system you can set the bus network data of the intercom system. It is not advisable to modify these parameters, unless some

external wifi network, to which you will connect the monitors, do not use the segment 192.168.10.... In this
In this case it is advisable to replace the numbers 192.168.10 in the configuration with a different segment,
like 192.168.11 for example, to avoid conflicts.





In step 5 of the wizard, only when setting up the first monitor,

The IP configuration of the keypads present in the system has been completed. Once completed, the following appears:

the IP addresses of the configured keypads and the LEDs on the keypads stop flashing.

If all the keypads connected to the system do not appear, wait a little while and use the button below to refresh your search.

You can click on each button pad in the list and assign it to port 1,2,3,4.





Press FINISH to finish setting up the first monitor.

You can proceed in the same way with the other monitors in the system, assigning each one to the own function.

For example, you will set the second monitor of Family 1 like this



And you will set up the main monitor of the family 2 like this



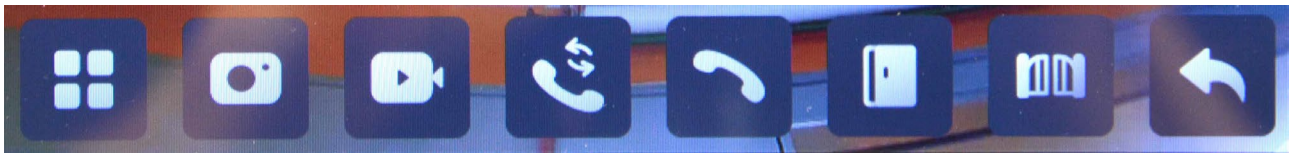
CHANGING SETTINGS

To avoid inadvertent changes to the system configuration, it is not possible to modify of the monitor in the monitor configuration, but you need to reset the factory settings of the monitor and then run a new wizard.

Using the video intercom

HOW TO ANSWER A CALL

For example, if a visitor presses button 1 on a keypad, all monitors will ring.
matched to family 1 and the camera image appears on the monitors together with the following control buttons.



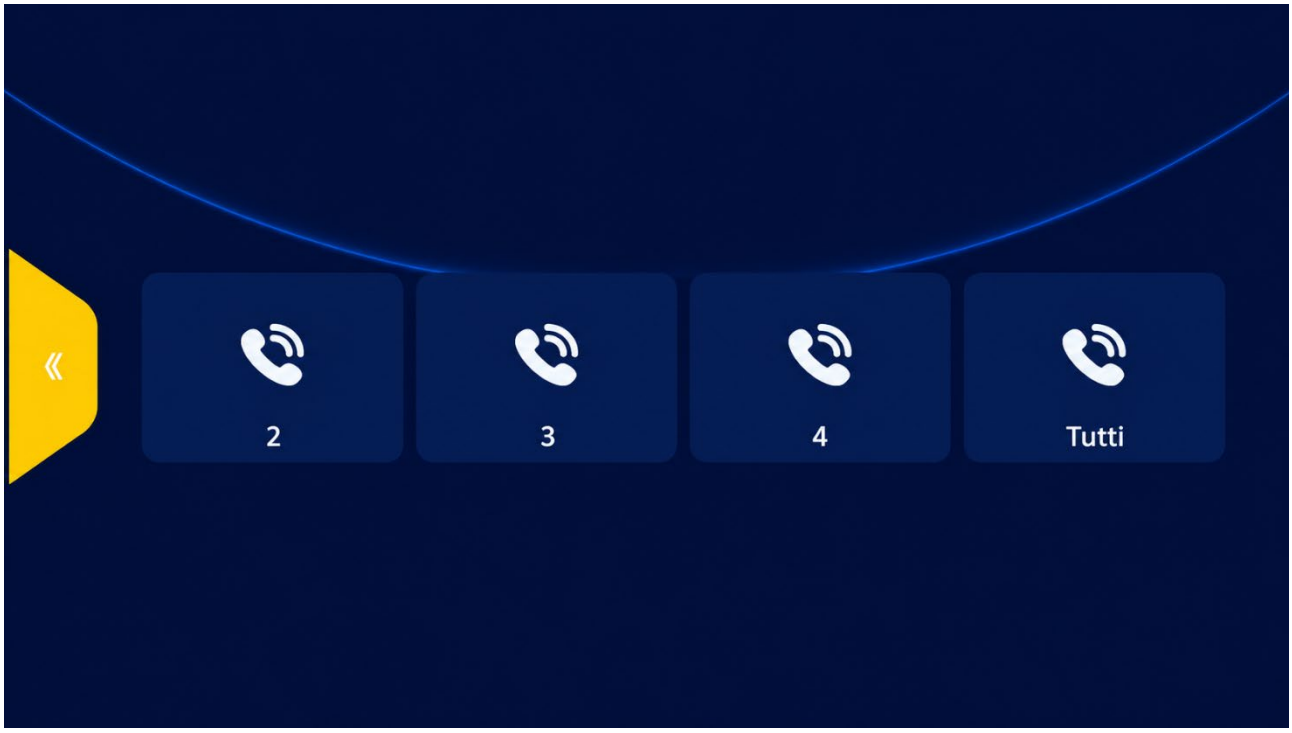
1 **2** **3** **4** **5** **6** **7** **8**

1 – Activate image adjustment
2 – Take a photo
3 – Record video
4 – After answering, it allows you to transfer the call to another monitor in the family
5 – Activate and close audio communication
6 – Opens the LOCK1 door opener in the button panel that is calling
7 – Opens the LOCK2 door opener in the keypad that is calling
8 – Exits and closes communication with the keypad

HOW TO CALL ANOTHER MONITOR

You can make an internal call with the intercom button. You can make calls
internal calls only between monitors of the same family. It is not possible to make internal calls between Monitors from different families. Use the INTERCOM button and choose the monitor you want to call.





HOW TO CONNECT TO AN EXTERNAL KEYPAD OR CAMERA

You can connect to the keypads of your system even if no visitor has made a call. It can be useful for monitoring through the camera or opening the door.

You can also monitor an external camera, if you have configured it in the settings.

Use the MONITORING button and choose the keypad or camera to connect to.





HOW TO SET THE SYSTEM STATUS

On the main screen there is a yellow button that allows you to choose the operating status of the system and which is activated manually as needed. You can select three different system states: Home, Away, Do Not Disturb.



AT HOME **OUT OF HOME** **DO NOT DISTURB**

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 a call the monitor shows the camera and records the images, but it doesn't ring

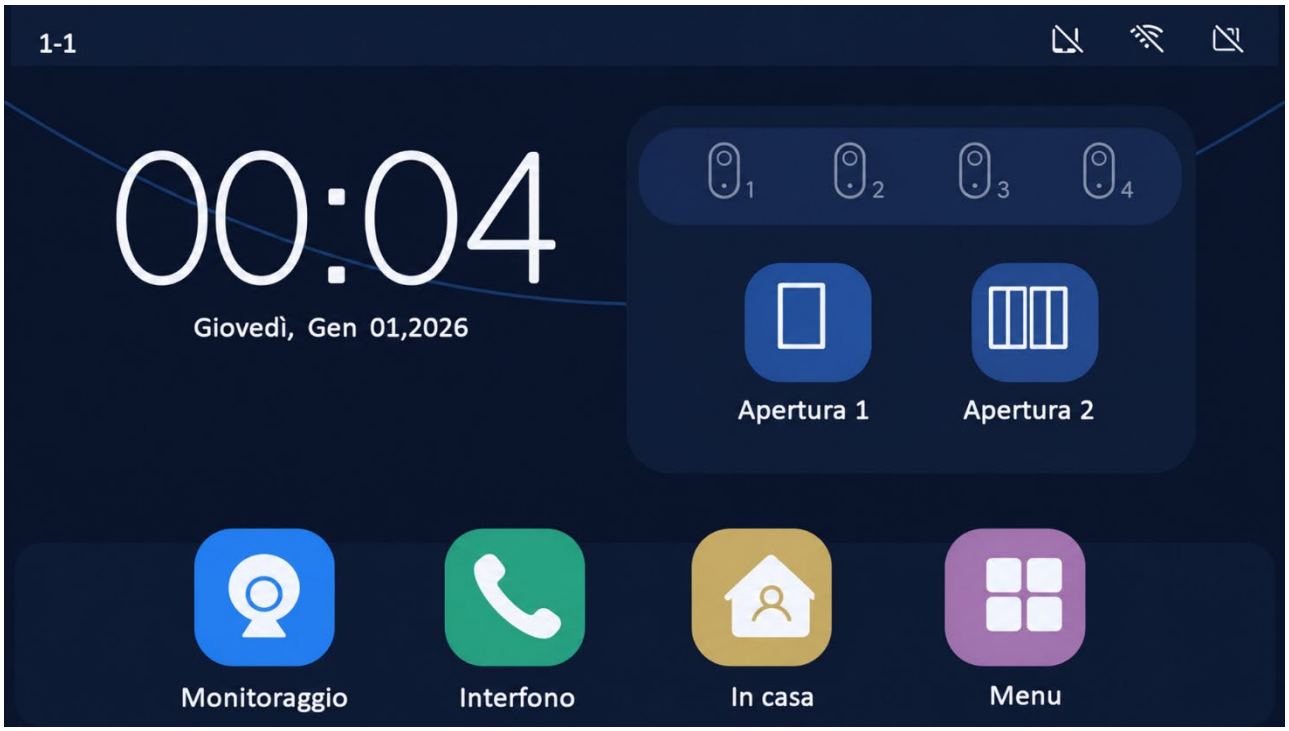
The mode set on one monitor affects all monitors in the household.

NOTE – If your monitors stop playing, before thinking of a fault, check that there is nothing wrong with your monitor.

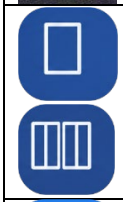
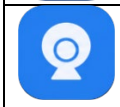
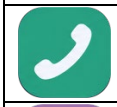
having accidentally entered do not disturb mode.

Status icons

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



	Tuya app connection connected, not connected
	Wi-Fi network access connected or not connected
	SD card status, present, not present

	This icon shows the status of the system's keypads. YELLOW – Online keypad on which the quick opening buttons are active (Opening 1 and Opening 2) WHITE – Online keypad GREY – Keypad offline (not connected)
	This icon shows the current mode you have set your system to. intercom, easy to change with one touch: AT HOME – Normal operation NOT AT HOME – The visitor is asked to leave a message DO NOT DISTURB – The monitor never rings
	Quick opening of door openers 1 and 2 of the main button panel, chosen in system settings
	It allows you to activate the connection with the system's push-button panels, without it being a visitor call has been made. It also allows viewing of the outdoor IP cameras.
	Allows you to call another monitor of the system belonging to the same family.
	Opens the configuration menu

Configuration

The MENU button opens the system options configuration page. The images
The following refer to the main monitors of the system. In the other secondary monitors some functions will not be accessible.

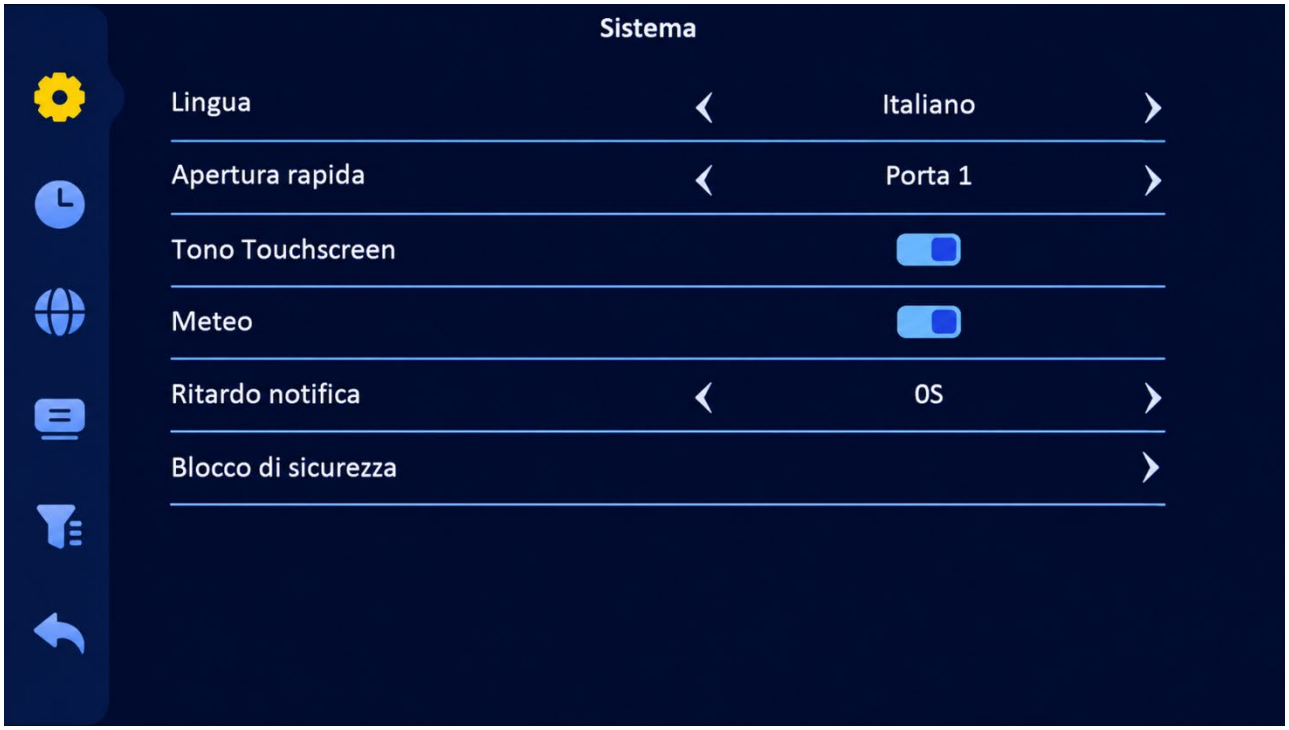


System Settings

System settings are the general adjustments of your monitor.



SYSTEM



LANGUAGE – Sets the menu language. The default is Italian.
QUICK OPENING – Set which keypad the 2 opening buttons will have effect on
quick present on the main page.
TOUCHSCREEN TONE – Enables the confirmation sound when you touch the screen
WEATHER – Shows the weather forecast on the standby screen. This function requires the
wifi connection.
NOTIFICATION DELAY – Set how long the monitor will ring before it goes off.
Call notification sent to Tuya APP.
SECURITY LOCK – If you want to prevent changes to the configuration, you can
set a security password that will be required to change the most important configurations

important.



The default system password is**123456**

You can set the functions you want to protect with this password.

DATE AND TIME



AUTOMATIC – If enabled, the date and time are automatically adjusted via the Internet. This is the Recommended mode if your monitor is connected to the Internet.

DATE FORMAT – In Italy, DD-MM-YY is usually used

SCREENSAVER – 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 the digital frame, after 10 seconds of inactivity the monitor it goes out.

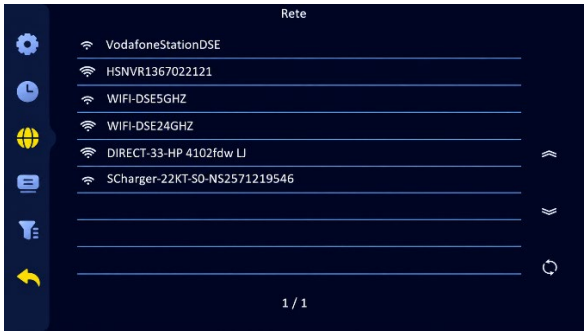
NET

This window summarizes and configures the system's network parameters.



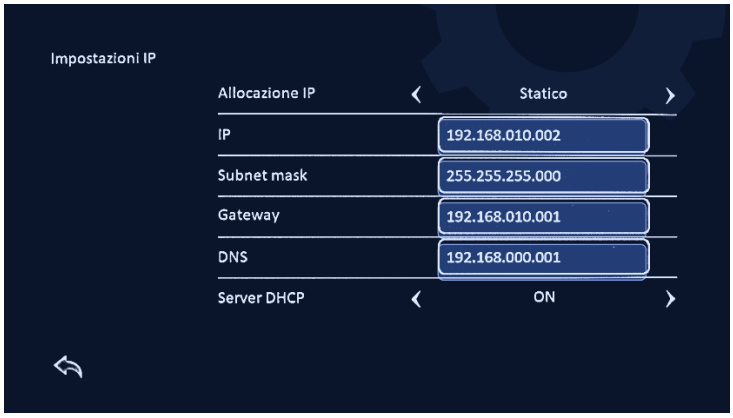
WLAN – If you want to be able to manage your system via the Internet with the Tuya SmartLife app you must Connect the main monitor of each family to the router's WiFi. It is NOT necessary to connect to the Wi-Fi on secondary monitors. Here you can enable the monitor's Wi-Fi connection, search for the network Wi-Fi with the search button, enter the login password and connect. The monitors support 2.4GHz and 5GHZ WiFi networks.





SSID – Shows the name of the Wi-Fi network the monitor is connected to

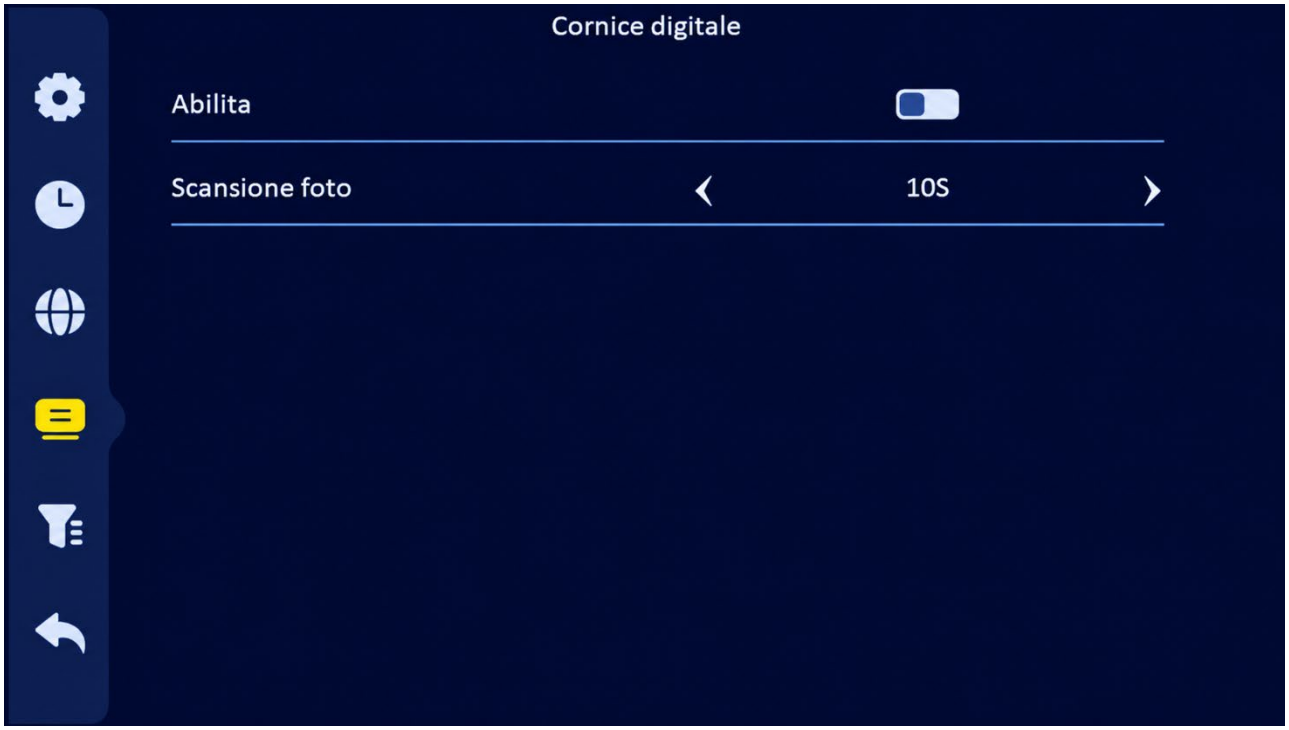
LAN – Displays the network parameters used by the system's internal bus. Main monitor only.
of the system has access to modify these parameters.



In this section it is best not to change anything because you could make the system
unusable. However, there are rare cases where it is necessary to change these parameters. Here
You see that the system uses the 192.168.010 address class for its internal bus. If your
external wifi network, to which you connect the monitor, uses the same address class 192.168.10 you
It is best to set the IP segment to a different value, such as 192.168.011., for example, in
so that devices connected to your external network do not conflict with IPs
of the intercom's internal network, causing malfunctions. You could therefore modify the fields
IP and Gateway by inserting 011 instead of 010 in the third digit of the address.
You also need to set a different IP segment if you are installing two systems
independent video intercoms connected to the same wifi network, so as to avoid the addresses
IP addresses of one system conflict with those of the other system.
DEVICE – Indicates the system option chosen during the first configuration.
FIRMWARE VERSION – Indicates the monitor's firmware version
UUID – This is the monitor's identification code used to connect it to the Tuya APP. By pressing
With the icon you can view the QR Code to use for pairing with the app (see manual
app)
NETWORK STATUS – Indicates the status of the wifi connection.
TUYA SERVER – Indicates the connection status to the Tuya APP

The DMC Series video intercom systems can be controlled with the Tuya app, like all our Home automation equipment. To use the Tuya SmartLife app, follow these steps: refer to the app-specific manual.

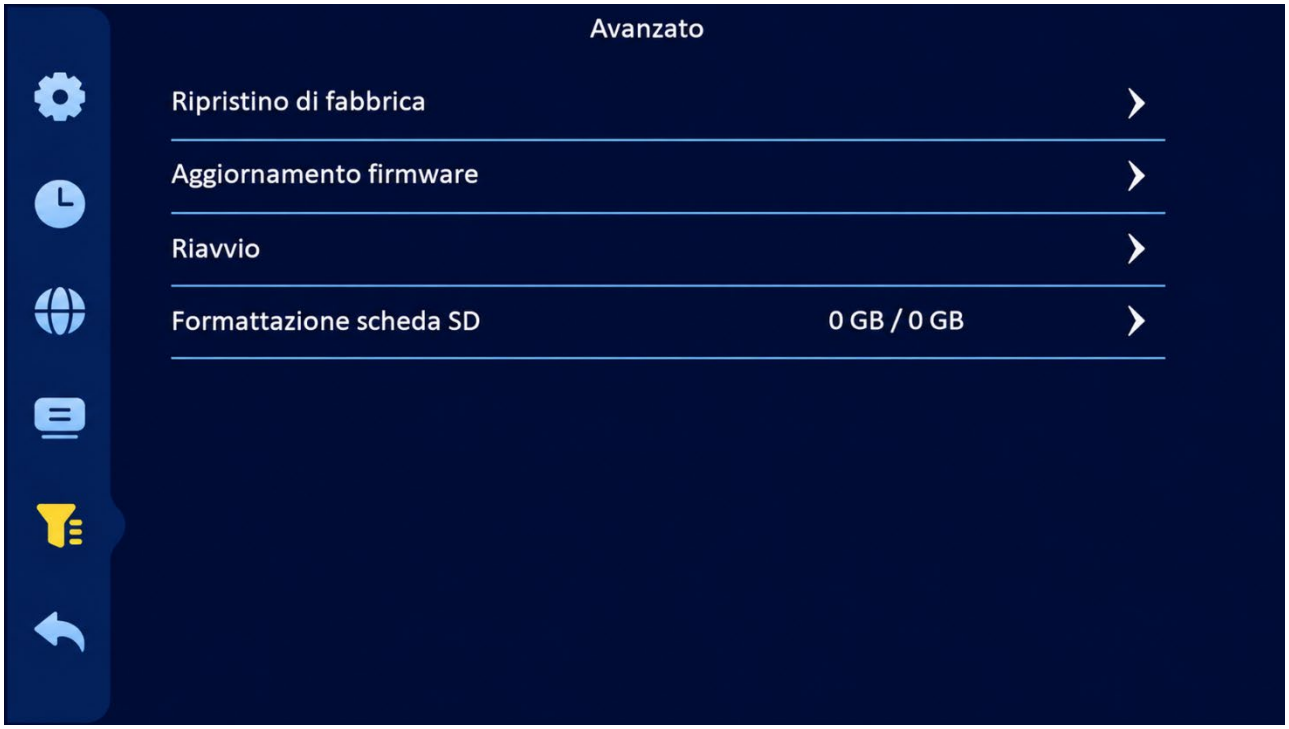
DIGITAL FRAME



ENABLE – If you enable the slideshow, the monitor will show in sequence the photos you have uploaded in the microSD card when in standby. Photos must be uploaded to the folder from the computer. DigitalFrame that the monitor automatically creates on the memory card when you run SD card formatting. Photos in JPG format (horizontal shot) can be uploaded. and a maximum resolution of 1024x600.
INTERVAL – You can choose how long each slide remains during the scan

The slideshow activates automatically after 10 seconds of monitor inactivity

ADVANCED FUNCTIONS



FACTORY RESET – You can reset your monitor to its factory settings.

It concerns the single monitor, not the other components of the system. If the monitor has been connected to the Tuya Smartlife app, 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, only on our indication

RESTART – Restarts the monitor

SD CARD FORMATTING – Each monitor has a Micro SD card slot. If you insert a

You can record video calls in this memory. Here you can format the microSD card, which is an operation mandatory when you insert the card for the first time or when you want to delete the entire content. You can use microSD cards of any capacity. Before inserting the SD card,

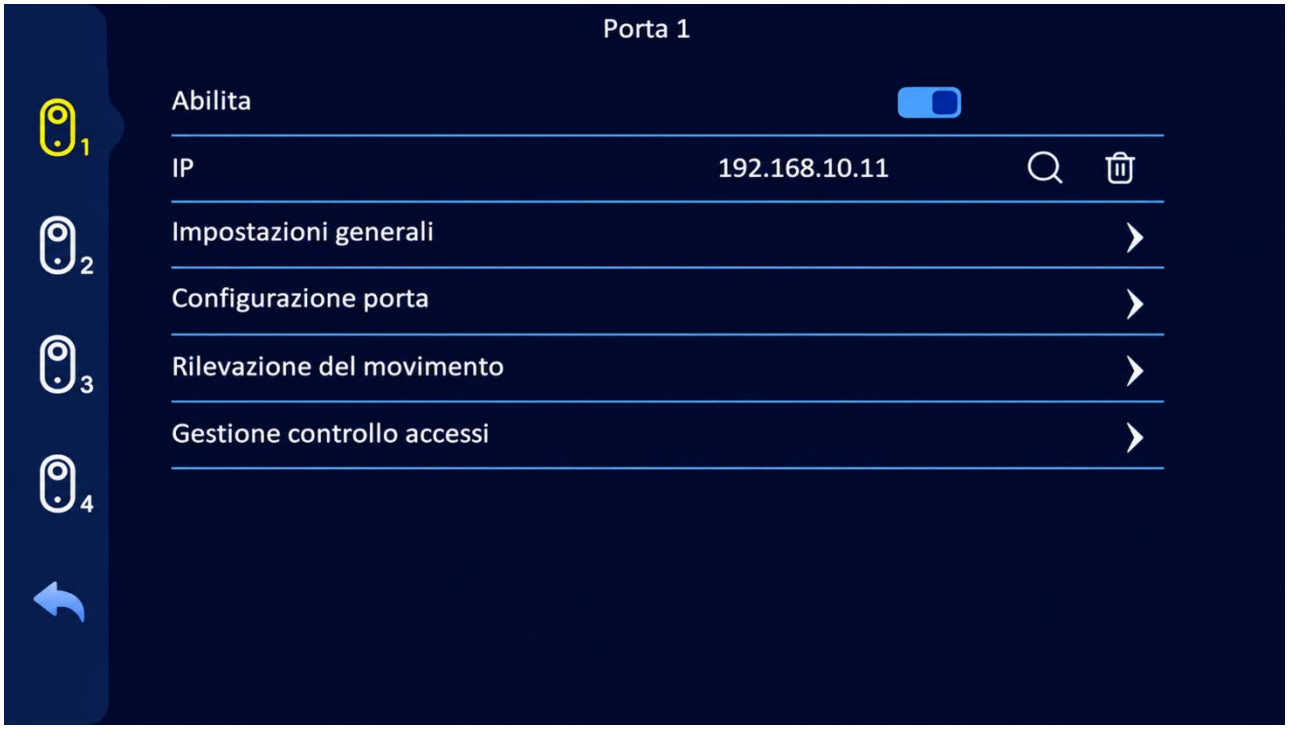
It is advisable to format it with your computer in FAT32 (up to 32GB) or EXFAT (from 64GB to 1TB). Without an SD card the system still works, but it is not possible to record or use motion detection, nor the slideshow on the screen. If the SD card is present and formatted, you can see it here. free and total memory capacity.

Setting up ports

The DOOR SETTINGS menu button allows you to configure the call buttons
of the plant.



This operation can only be performed from a primary monitor and not from secondary monitors.
The configuration of the keypads is unique for all families.
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.



ENABLE – Enables the selected keypad.
IP – Shows the IP address of the keypad.
This window allows access to four subsections: general settings,
door configuration, motion detection, access control management.

GENERAL SETTINGS



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

Photo)

VISITOR MESSAGE – You can allow the visitor to record a video message

if no one answers the call or if the OUT operating mode is active

HOUSE.

MESSAGE DURATION - You can choose the maximum duration of the visitor's message

DETECTION NOTIFICATION – Enable motion detection in the camera

keypad

MOTION RECORDING – Defines how to record to SD card following a

motion detection (video/photo)

MOTION DETECTION ALARM – You can play an alarm sound on the monitor when motion is detected.

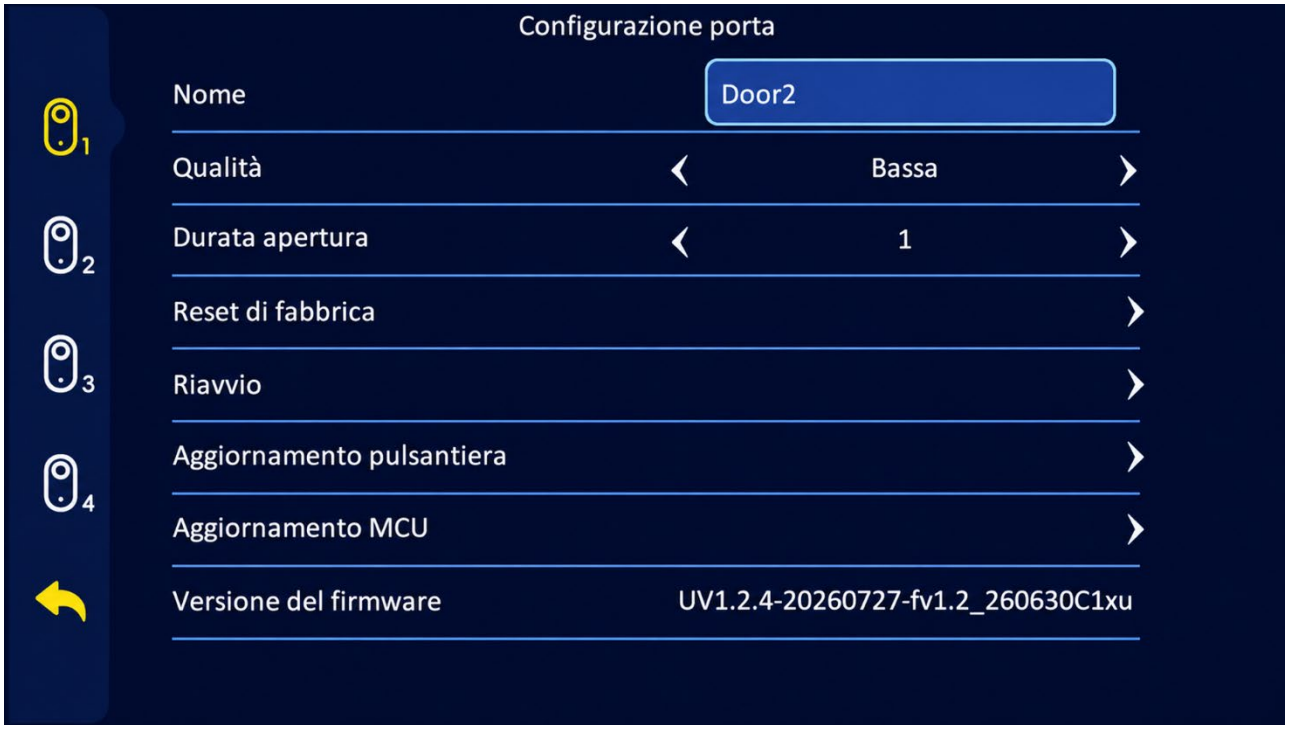
Motion detected in front of the keypad camera. Adjust the volume.

motion alarm.

PUSH NOTIFICATION MOTION ALERT – You can receive a notification on the APP when a motion occurs.

motion detection in front of the keypad.

PORT CONFIGURATION



NAME – You can enter a name for the keypad that makes it easily identifiable

QUALITY – Sets the video quality of the camera. The higher the quality, the lower the video quality.

more space occupied when recording on SD card

OPENING DURATION – Sets the duration of the lock opening pulse (from 1 to 10

seconds). Check the lock indications. Normally, electric locks activate

with pulses from 1 to 3 seconds.

FACTORY RESET – Restores the keypad to its factory settings

RESTART – Performs a reboot of the selected keypad

KEYPAD UPDATE – Updates the keypad firmware. This operation

It should only be done under the instructions of our technical support.

MCU UPDATE – Updates the firmware of the keypad processor. This

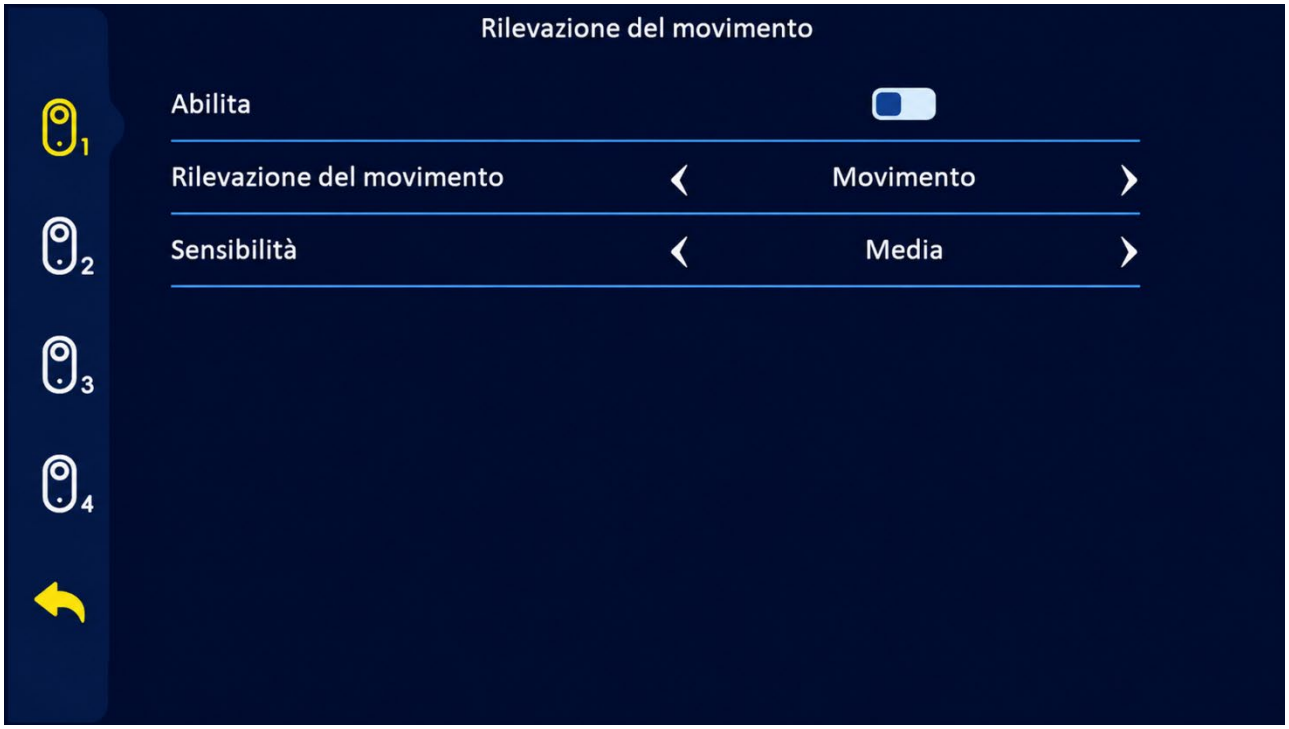
This operation should only be carried out under the instructions of our technical support.

FIRMWARE VERSION – Shows the firmware version installed in the keypad

MOTION DETECTION

Motion detection is very useful to report the presence of people near the

button panel.



ENABLE – Enables motion detection on the keypad camera

MOTION DETECTION – You can choose to detect any motion or people only (human detection). It is advisable to use human detection for avoid false detections.

SENSITIVITY – Adjust the detection sensitivity (3 levels)

ACCESS CONTROL MANAGEMENT

In this section you can set the users authorized to open the door. The methods of configuration are explained in the next chapter

Access control management (badge, face, palm)

Domoticam IQ video intercoms have the access control function via budge,
face recognition and palm line recognition.
Each family can set up to 10 authorized users who can open the door
by presenting your badge, face, or palm.
The configuration of authorized users is carried out from the main monitor of each family.
Press DOOR SETTINGS and ACCESS CONTROL MANAGEMENT







	CHOOSE THE KEYPAD Each keypad has its own independent access configuration. If you have entered, for example, in the access configuration of keypad 1, remember to use this keypad for storing authorised users. You can store the same badges, photos and palms on different keypads. Similarly, a user can be authorized to access one keypad and not authorized on others.
	**USERS** Each family can enter up to 10 users authorized to access, each identified with your badge, face photo and palm. On the left of the screen you can Select the user to configure. Each family has its own user configuration. standalone that configures through its main monitor
	**USER IDENTIFICATION SYSTEMS** The system is designed for various user identification technologies. Some they are prepared, but not used at the moment. ACCESS WITH CODE – Not currently used BADGE ACCESS – Supported. 5 badges supplied with each keypad. FINGERPRINT LOGIN - Not currently used FACE RECOGNITION LOGIN – Supported HAND LINE ACCESS - Supported
	**ADD/DELETE IDENTIFICATION** Press the plus button when you are ready to store an identification system of the user. Press the delete button to delete the badge, photo or palm previously stored.
	**DOOR OPENING 1-2** For each user identification tool you can define the automatic opening of the port 1 or port 2, connected to the keypad.

USERNAME

At the top of the window you can enter the name of the authorized user

CODES

Not used at the moment

BADGE STORAGE

Select the user to configure on the left (1,2..10).

Press the + button in the badge access row (second row)



to add the user's personal badge. The keypad you are configuring will enter

Badge learning mode for 3 minutes. Present the badge in front of the receiver.

keypad you are configuring.

A long beep confirms that the badge has been saved.

FINGERPRINT

Not used at the moment

FACE MEMORIZATION

To use face recognition, you need to insert the SD card into the monitor.

Select the user to configure on the left (1,2..10).

Press the + button in the face recognition login row



and choose PORTA, to add the user's face (you can also browse user photos on the SD

card if you want to use a photo already saved previously on another keypad).

The keypad you are setting up will enter face learning mode for 3 minutes.

The user must position himself approximately 50 cm from the camera of the keypad you are configuring and

Press the call button to take the photo. Alternatively, you can press the button with

the camera that appears on the monitor to take the picture without the user pressing

nothing on the keypad.

A long beep confirms that the photo has been saved and a message appears on the monitor.

success message.



PALM MEMORY

To use palm recognition, you need to insert the SD card into the monitor.

Select the user to configure on the left (1,2..10).

Press the + button in the palm access row



and choose PORTA, to add the photo of the user's palm (you can also explore user photos on the SD card if you want to use a photo already saved previously on another keypad).

The keypad you are configuring will enter palm learning mode for 3 minutes. The user must show the open palm of his hand approximately 10 cm from the camera. keypad you are configuring and press the call button to take the photo. In alternatively you can press the button with the camera that appears on the monitor to take the photo without the user pressing anything on the keypad.

It is important to show the camera the palm area and not the fingers, because the Recognition occurs on the basis of the lines on the palm.

A long beep confirms that the photo has been saved and a message appears on the monitor. success message.



Ringtone

The RINGTONE menu button allows you to set the monitor's ringing sound.





1-2-3-4 – Select the keypad to configure.

PERIOD – You can define different ringtones depending on the time of day. You have to

Three daily periods are available. Select the period you want to configure here.

SCHEDULE – Define the start time and end time of the period.

RINGTONE – You can choose between different ringtone sounds

VOLUME – Adjusts the ringtone volume

DURATION – Limits the maximum duration of the ringtone following a call (5-30 sec.)

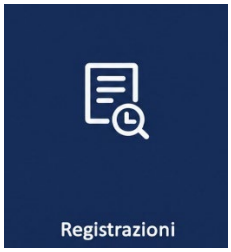
DOOR RINGER – Adjusts the volume of the keypad sound that accompanies the

call. The factory setting is medium. In a quiet environment it is recommended

use a low volume, such as 2-3.

Recordings

The RECORDINGS button allows you to search and review call recordings,
saved to the monitor's 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,
MANUAL RECORDING, VISITOR MESSAGE or MOTION DETECTION)
Tap a file to play it

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 are compatible up to
Maximum video resolution of 5MP. If you have higher resolution cameras, such as 8MP, you must
reduce the video resolution in the camera settings to be able to view them in the
video intercom or connect them using the secondary streaming which is the low-speed video stream
resolution.
The video intercom supports cameras with H264 or H265 video encoding.
These cameras are not used as a replacement for the keypad camera, but in addition, for
being able to control, for example, the opening of a garage door or the visitor's path
enter the property. Additional cameras are only visible on the video intercom monitors,
not remotely through the app.
WARNING – The video intercom is connected to your Wi-Fi network. If the cameras are connected
for a wired network, the two networks, Wi-Fi and wired, must use the same network segment
for the connection with the cameras to be successful.
To set up the connection with external cameras, press the SETTINGS button
CAMERAS





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, a list of cameras found online appears. Select the camera to connect and enter the username and password to access the camera. You can also define which stream to receive from the camera: the main one, or the lighter secondary.

To see the external cameras you have connected, when necessary, you must press the button MONITORING, as seen previously.



Connected cameras will be distinguished by a yellow dot and you can tap the icon to start real-time vision