

USER MANUAL

KIT HOME WIFI 322004

Single-family video intercom kit

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1- Product Description

KIT HOME is a two-wire non-polarized video intercom solution for single-family homes.

1.1 General characteristics

• Non-polarized two-wire system.

• Stainless steel outer plate with high-quality color image camera with auto-detection system of lack of brightness.

- Electronic opening.
- \cdot Compatible with external push button.
- · Monitor call volume adjustment.

 \cdot System expandable to two exterior panels with the possibility of installing a total of 4 identified monitors in the same home.

- \cdot Monitoring function. It is possible to observe the street without the need for a prior call.
- Access control by Mifare RFID reader up to 1000 cards.
- \cdot Possibility of integrating analogue camera by PE 1BM board into the installation

2- Elements of the HOME WIFI KIT video intercom

2.1 PE 1BM Outer Plate



Street panel with high image quality camera and lack of brightness detection system. It has a housing button and Mifare RFID access control system. The PE 1BM plate is integrated into an aluminum protection visor, with an anti-screw loss system to be installed on the surface.

2.2 PFA 2420 Power Supply

Power supply with 2-wire BUS system. In addition to providing the necessary current for the system centrally, it is the intercom module between the PE 1BM board and the MON 43V monitor. Incorporates a short circuit detection locking system in the installation and installation on DIN rail



2.3 MON 43W Monitor



MON 43W monitor with high quality 4.3" color screen, with hands-free system and opening without the need for pre-dialing. The MON 43W has the possibility of external display of the video intercom from the same monitor panel and manageable from the Ek Smart APP.



2.4 Extra accessories

1x Mifare Master Configuration Key

4x Screws and plugs for fastening the PE 1BM fairway plate

1x Allen key

1x Connector

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3- Electrical diagram

3.1 Schematic with a Monitor



3.2 Schematic with four monitors



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4- PE 1BM configuration



4.1 Configuring the Dip Switches



4.1.1 Set ID to PE 1BM entrance plate

In case of installing several entrance panels in the system, these two dip switches must be configured correctly. The first gate station configured should be set to 00, the second should be set to 10, the third set to 01, and the fourth set to 11. If there is only one door station, it must be set to 00.



00	First Gate Station
10	Second Gate Station
01	Third Gate Station
11	Fourth Gate Station

4.1.2 Set the Ringtone (dip switch 3)



0	Standby ringtone on
1	Ringtone waiting off



4.1.3 Door Opener Opening Time and Call Time

For this configuration, dip switches 4 and 5 are used.



00	1 second (Default)
10	5 seconds
01	10 seconds
11	15 seconds

4.1.4 Additional camera

If it is required to use an additional camera in the installation, it is necessary to activate on the dip switch 6 (*Note: only one additional camera can be used per entrance plate*).



0	No additional camera (Default)
1	Connection with additional camera

4.2 Connections



<u>VI+/VI-:</u> Analog Camera Connection

LOCK-/LOCK+: 12V Door Opener Power Output (MAX: 800mA & 3.5A Direct Power)

OPEN/LOCK-: Auxiliary door opener pushbutton

12V/LOCK-: External power connection for the door opener (12V: COM)



4.3 Types of jumper configurations

	Power supply at 12V MAX 800mA (Relay in NO position)			
• • •	Continuous power supply at 12V MAX 800mA (Relay in NC position)			
• • •	Connection to external source (Relay in NC position) IMPORTANT: Maximum current 3.5A			
•••	Connection to external source (Relay in NO position) IMPORTANT: Maximum current 3.5A			

Examples of connection:



12V door opener connection with open contact, auxiliary door opener button and analogue camera



Externally powered door opener connection with open contact and auxiliary door opener button



4.4 Mifare RFID Reader Configuration

Inside your Home KIT, you will find a Mifare RFID Configuration Master Key. To add access keys simply swipe the master key and it will produce a first read BEEP and then issue BEEP's indicating that it is in access card recording mode. Once the card burning mode is activated, pass as many cards as you want to add to your installation.

Once finished, swipe the master card again to exit the mode.

4.4.1 Add Master Card

In case of loss of the master card you have the possibility to add one again. On the back of the PE 1BM entrance plate you will find a button to enable this mode.



Press and hold for 5 seconds until you hear a long BEEP. Swipe the card and you will hear back in BEEP long confirmation.

Note: It is only possible to set up one master key at installation.

4.4.2 Factory Reset

To erase all Mifare RFID access cards from the PE 1BM entrance plate, press and hold the button on the back for 10 seconds.

Important: This factory reset will erase the configured master card included. To reconfigure it, go to section 4.4.1



5- MON 43W Monitor



5.1 Navigation Panel 5.1.1 Main Panel



Three icons are displayed on the home page. Notifications of unanswered calls, messages if you have received a call in your absence and a message has been left (it is necessary to activate the answering machine beforehand. Section 5.5.1). On the top right, it will tell you if the device is properly connected to the internet using WIFI and SD card detection.



5.1.2 Main Menu



Display: To be able to visualize the different analog boards and cameras that are in your installation

Internal call: You can make internal calls from video doorbell to video doorbell.

Log: Record of calls, messages, and alarm notices.

Settings: MON 43W ID settings, outer board, connection and advanced settings.

At home: Work mode configuration system.

At home: The device will ring normally.

Away from home: The device will ring normally.

Do Not Disturb: The device will not make any sound, but the screen will turn on.

Main: Redirect you to the main dashboard

5.2 Visualize





In the Display menu, you can view and manipulate the outer plates without prior marking. You will also be able to see the analogue cameras installed, if there are any in your installation.

5.3 Registration

In the log menu you will be able to see if you have had a call while you were away, unread messages and alerts.

5.4 Settings



5.4.1 System

On this screen you can configure the basic settings of the MON 43W, such as device ID, date and time settings. It also has the language configuration and the automatic opening system by means of hours.



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5.4.2 Automatic opening by opening hours

To set an automatic opening hours, select Auto unlock and change it to **On.** Please indicate the start and end time below.

In the **Week section**, indicate which days you want to set the automatic unlocking, being 1 Monday and 7 Sunday.



5.5 Door Settings



Under Door Settings, you can enable the video message box feature and automatic do not disturb mode settings.

5.5.1 Enable Unanswered Mailbox



To activate the call box, go to **Enable messages** and set it to Power. Set the duration of the message you want to save (Default: 30 seconds)

Note: If the call on the entrance plate is set to a duration shorter than the duration of the message, the message will not be able to respect the duration of this setting.



5.5.2 Sound Settings

In sound settings you can set 3 sound modes. In each mode, you can select the ringtone, volume, and set them by schedule.

Note: If you want to turn on a Do Not Disturb mode to prevent undesirable calls at night, select a mode, set the time you want not to be disturbed, and set the volume to 0.



5.6 Cameras

In this menu you can configure the cameras of your installation (Maximum 2 cameras)

Note: Each camera must be connected to a PE 1BM entrance panel

5.7 Connection

In this menu you can link the device to your Ek Smart account. Select the way you prefer to start the link.

<u>AP Mode</u>

The MON 43W will generate a WIFI point to connect directly to it and be able to configure it.

On screen it will show you the SSID and password to connect

<u>EZ Mode</u>

The EZ mode device will activate Bluetooth and initiate automatic pairing for nearby devices.



5.8 Advanced

In this menu you will have the factory settings, format the SD card, update the device and restart it.

5.9 Mode Selection

The MON43W has three status modes

Q			
Visualizar	Llamada interna	Registro	
Ö		C	
Ajustes	En casa	Principal	

<u>At home</u>

Standard configuration. Standard volume to what is set in the Sound Settings (Step 5.5.2)

<u>Vacation</u>

Standard configuration. Standard volume to what is set in the Sound Settings (Step 5.5.2)

<u>Do not disturb</u>

In this mode, you will deactivate the ringtone of your MON 43W (Smartphone notifications will continue to work).

6- Connect MON 43W with the Ek Smart app

6.1 Download the Ek Smart App

To download the app, go to the Play Store or Apple Store on your mobile device and search for "Ek Smart" or access using the following QR code:



Ek Smart

6.2 Enable Pairing Mode on the MON 43W

To activate the pairing mode you need to activate the Wi-Fi mode of the MON 43W.

1. Go to Settings, then Go to Connection.



2. Select the type of connection you want (EZ Mode, AP Mode)

Selecting AP mode will prompt you for confirmation to restart the device.

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6.3 Add MON 43W to the Ek SMART App

6.3.1 Automatically Add

Step 1: Step 2:



Once it finds the device, it will show you the device on the screen. Press "add" and it will start the configuration mode where it will ask for your WIFI connection and password.

Note: For automatic device detection, you need to have Bluetooth enabled and the granted "near device detection" permissions.



6.3.2 Add Manually

If you want to add the device manually, you must select the Video Doorbell category, model MON 43W and follow the instructions that will appear on your mobile device.

Video of linking the device to the Ek Smart APP

https://youtu.be/r1bv_D4QDQq

7- MON 43W interface in the Ek Smart app

7.1 Main Menu





7.2 Settings menu



8- Wiring and distances section

Cable section	0.25mm2		0.5mm2			1.5mm2 (trunk only)			
Maximum Monitors	32	48	64	32	48	64	32	48	64
Maximum distance from the street to the farthest monitor (meters)	125	125	125	200	200	200	250	250	250
Maximum feeder distance to farthest monitor (meters)	75	50	40	150	100	75	250	250	200

Note: The maximum distance from the power supply to the street panel must be within the range of the limiting distances between the entrance panel, the farthest monitor, and between the feeder to the last monitor.