

# MILO DIGITAL VIDEO PANEL INSTALLER'S MANUAL

**ENGLISH Version** 

Cod. 970134lc V08\_19

This manual corresponds to MEET Digital Video Panel firmware version V02.09 and hardware HW 95770B / HW 95771B.

FERMAX ELECTRÓNICA S.A.U. http://www.fermax.com MILO DIGITAL VIDEO Panel manual available at <u>https://meet.fermax.com/milo-panel/</u>

Copyright Notice Fermax and Fermax MILO panel are trademarks of Fermax Electronica S.A.U. registered in the European Union and other countries. © FERMAX ELECTRÓNICA S.A.U., 2019.

1	Pro	duct Introduction		
	1.1 Overview			
	1.2	Panel	Display Screen	5
2	Fun	ctions I	ntroduction	5
	2.1	Call A	partment	6
	2.	1.1	Block Panel call apartment	6
	2.	1.2	General Entry Panel call apartment	6
	2.2	Call G	Suard Unit	7
	2.	2.1	Block Panel Call Guard Unit	7
	2.	2.1	General Entry Panel Call Guard Unit	7
	2.3	Acces	ss Code	8
	2.4	Face	Recognition	8
	2.5	Mifare	e Reader	8
	2.6	Fire A	larm	8
	2.7	About	•	9
3	Cor	nfigurati	on via Web Server	10
	3.1	Devic	e Information	10
	3.2	Gene	ral Settings	.11
	3.	2.1	General Entrance Panel	.11
	3.	2.2	Block Panel	12
	3.3	Netwo	ork Settings	14
	3.4	Acces	3S	15
	3.5	Face	Recognition	16
	3.6	IP Ca	mera	17
	3.7	SIP S	ettings	17
	3.8	SIP T	runk	19
	3.9	Pinco	de Settings	20
	3.10	Resto	re	20
	3.11	Logou	Jt	21
4	Inst	allation		22
	4.1	Install	ation height	22
	4.2	Install	ation Step Diagram	23
	4.3	Conne	ectors	24
	4.4	Techn	ical Parameters	25

### INDEX

# **1 Product Introduction**

### 1.1 Overview



## 1.2 Panel Display Screen



# **2** Functions Introduction

- Call apartment
- Call concierge
- Call volume settings
- Door opening, relay delay settings
- Connect exit button
- Speech
- Door opened, door forced alarm, and tamper alarm
- Lift control (Only when installed)
- PIN Access Code
- Mifare reader
- Alarm management by access control
- Face Recognition for release lock
- Fire Alarm for lock release

### 2.1 Call Apartment

### 2.1.1 Block Panel call apartment

Visitors need to enter apartment number followed by "B" to confirm. For example, if the resident lives in apartment 201, the visitor should enter: 201 and press "B".



### 2.1.2 General Entry Panel call apartment

Visitors need to enter block number followed by a 4 digits apartment number followed by "B" to confirm. For example, if the resident lives in block 10 apartment 101, the visitor shall enter: 10-0101 and press "B".



### 2.2 Call Guard Unit

### 2.2.1 Block Panel Call Guard Unit

The visitor or resident can call the guard unit by entering the number assigned to it (9901 by default) followed by "B" to confirm. This call can be made from all block entry panels.



### 2.2.1 General Entry Panel Call Guard Unit

The visitor or resident can call the guard unit by entering the number assigned to it (9901 by default) followed by "B" to confirm. This call can be made from all general entry panels.



### 2.3 Access Code

Press keys "A0" to access PIN code function, entering the access code followed by "B" to confirm.

If the access code is correct the door will open.

You can enable or disable the function at web of the panel.

The access code to be defined at web of the panel. Maximum access code 6 digits.



### 2.4 Face Recognition

Pressing key "A" twice the camera of the panel will start to read the face information. If the face data is authorized, the door will open and release the lock.

The face data is to be added through the MEET management software.

Maximum face data 6000.

This option shall be activated from the panel webserver.

### 2.5 Mifare Reader

Resident can pass their authorized Mifare card through the panel reader, and then the door will open and release the lock.

The Mifare card data is to be added and managed through MEET management software, Maximum 100,000 Mifare cards.

### 2.6 Fire Alarm

When a fire alarm occurs in a block, all the panels in this block will display a "Fire Alarm" prompt and automatically release all locks in this block to facilitate the safe evacuation of residents. Doors will keep unblocked while the fire alarms is active.

## 2.7 About

Enter code 9999 followed by "B" to confirm, The ABOUT information will show.



You can get information about the device name, firmware version, device info, serial no, IP address and MAC address.

01/01/2018 08:09		
FERMAX MEET PANEL		
FIRMWARE: V 02.09H		
DEVICE: BLOCK PANEL 001-01		
SERIAL NO.: 77FA-007D-C649		
MAC: BC:F8:11:0A:6C:AF		
IP: 10.1.0.1		
COPYRIGHT © FERMAX ELECTRONICA S.A.U		
www.fermax.com		
ABOUT		

# **3 Configuration via Web Server**

The panel has an integrated web server, which allows to configure the parameters. This web server is accessed via the panel's IP address.

Use preferably Chrome web browser.

As a first step, username and password is reqested.

DEFAULT VALUES: IP: 10.1.0.1 Username: admin Password: 123456

### 3.1 Device Information

You can get information about the device name, firmware version, device info, serial no, IP address and MAC address

DISPOSITIVO	
GENERAL	
CONFIG.RED	
ACC	FIRMWARE: V02.09H
RECON. FACIAL	DEVICE:G.E. PANEL 01 SERIAL NO.:77FA-007D-C649
CAMARAS IP	MAC:BC:F8:11:0A:6C:AF IP:192.168.1.156
SIP	COPYRIGHT © FERMAX ELECTRONICA S.A.U
SIP TRUNK	www.iemidx.com
SIP CALL	
AVANZADO	
CÓDIGO PIN	
RESTAURAR	
CERRAR SESIÓN	

### 3.2 General Settings

Configures the panel type: General entrance panel or block panel.

### 3.2.1 General Entrance Panel

**DEVICE NO.**: General entrance panel number, between 1 and 9000.

**TYPE**: G.E.PANEL. The panel can communicate with all devices (monitors or concierges) of the installation.

**LANGUAGE**: select the desired language in the dropdown options. Default option ENGLISH. Refresh the webpage after change the language.

**INFORMATION:** 9901 CONCIERGE, Prompt information to be displayed on the panel, between 9901-9998, default option 9901. It is possible to modify the number according to the main concierge that each panel will call.

PANEL VOLUME: Select the desired value between 1 and 5. Default option 4).

The conversation volume is common for uplink and downlink.

**DOOR OPEN VOICE SYNTH:** The door open voice synth. can be enabled or disabled. The default is enabled.

**VIDEO RESOLUTION**: In order to fit the different types of monitor. The default value 640×480 is to be used the most usually.

### SIP DIVERT MODE:

PARALLEL CALL: When the panel calls the resident, the monitor and the call divert APP ring at the same time. Once one terminal answers the call the other one stops ringing.

SEQUENTIAL CALL: When the panel calls the resident, the monitor will ring about 30s if no answer, the call divert APP will start to ring

*This feature may not be available in this version. Will always works in PARALLEL CALL mode.* **DATE FORMAT**: Date format.

DATE: Setting the date of panel.

**TIME**: Setting the time of panel.

TIME ZONE: Setting the time zone of panel.

**DST**: Daylight saving time option. Will increase the time by 1h when selected. The daylight saving option is not automatic.

If the project has no management software nor internet connection the installer can set date, time and time zone manually.

If the project has management software, the date and time of panel will synchronize automatically with the management software. If the panel has access to internet, the date and time of the panel will synchronize with internet time server.

Date and time can't be saved after power loss, but the time zone and date/time format can be saved.

#### GENERAL SETTINGS

DEVICE		
GENERAL		
NETWORK	DEVICE NO .:	1
ACCESS	TYPE:	G.E. PANEL
FACE RECOG	LANGUAGE:	ENGLISH •
	INFORMATION:	9901 GUARD UNIT
IP CAMERA	PANEL VOLUME:	4 *
SIP	DOOR OPEN VOICE:	
SIP TRUNK	VIDEO RESOLUTION:	640x480 •
	SIP DIVERT MODE:	PARALLEL CALL
SIP CALL		SAVE
ADVANCED		SAVE
PINCODE		
RESTORE	DATE FORMAT:	DD/MM/YYYY
RESTORE	DATE:	21 / 03 / 2019
	TIME:	04 : 08 : 04
LOG OUT	TIME ZONE:	GMT+01:00 •
	DST:	

SAVE



### 3.2.2 Block Panel

DEVICE

DEVICE NO. Block number, between 1 and 999 (default 1).

**TYPE**: Select BLOCK PANEL. Between 01-99 (default 1).

**LANGUAGE**: select the desired language in the dropdown options. (Default option ENGLISH). Refresh the webpage after change the language.

**INFORMATION:** 9901 CONCIERGE, Prompt information to be displayed on the panel, between 9901-9998, (default option 9901). It is possible to modify the number according to the concierge that each panel will call.

PANEL VOLUME: Select the desired value between 1 and 5, default option 4.

The conversation volume is common for uplink and downlink.

**DOOR OPEN VOICE SYNTH:** The door open voice synth. can be enabled or disabled. The default is enabled.

VIDEO RESOLUTION: In order to fit the different types of monitor. The default value 640×480

is to be used the most usually.

#### SIP DIVERT MODE:

PARALLEL CALL: When the panel calls the resident, the monitor and the call divert APP ring at the same time. Once one terminal answers the call the other one stops ringing.

SEQUENTIAL CALL: When the panel calls the resident, the monitor will ring about 30s if no answer, the call divert APP will start to ring

This feature may not be available in this version. Will always works in PARALLEL CALL mode.

DATE FORMAT: Date format.

DATE: Setting the date of panel.

TIME: Setting the time of panel.

TIME ZONE: Setting the time zone of panel.

**DST**: Daylight saving time option. Will increase the time by 1h when selected. The daylight saving option is not automatic.

If the project has no management software nor internet connection the installer can set date, time and time zone manually.

If the project has management software, the date and time of panel will synchronize automatically with the management software. If the panel has access to internet, the date and time of the panel will synchronize with internet time server.

Date and time can't be saved after power loss, but the time zone and date/time format can be saved.

DEVICE		GENERAL SETTING
GENERAL		
NETWORK	BLOCK:	1
ACCESS	DEVICE NO .:	1
FACE RECOG.	TYPE:	
IP CAMERA	INFORMATION:	9901 GUARD UNIT
SIP	PANEL VOLUME:	4
	DOOR OPEN VOICE:	
SIP CALL	SIP DIVERT MODE	640x480 V
ADVANCED	on bivert mobe.	SAVE
PINCODE		UNVE .
RESTORE	DATE FORMAT	DD/MM/YYYY V
	DATE:	21 / 03 / 2019
LOG OUT	TIME:	04 : 08 : 04
	TIME ZONE:	GMT+01:00 v
	DST:	
		0.115
		SAVE

### 3.3 Network Settings

MEET allows the installer to define the IP range according to the project needs and make the network management easier. MEET IP assignations network mode is static mode. This ensure that each device has a unique IP address in same installation. The devices (digital panel, monitor and guard unit) will show IP conflict if there same IP is used on the same LAN.

**IP**: IP address of the panel (default option 10.1.0.1).

MASK: Subnet mask of the panel (default option 255.0.0.0).

**GATEWAY**: Default gateway of the panel (default option 10.254.0.1).

**DNS**: DNS of the panel (default option 8.8.8.8).

**SOFTWARE IP**: IP address of PC where MEET management software is installed. (default option 10.0.0.200).

**SW. PIN**: The pin code is to be used when the panel is registered in MEET management software.

DEVICE			NETWORK SETTINGS
GENERAL			
NETWORK	IP:	10.1.0.1	
ACCESS	MASK:	255.0.0.0	
	GATEWAY:	10.254.0.1	
FACE RECOG.	DNS:	8.8.8.8	
IP CAMERA	SOFTWARE IP:	10.0.200	
SIP	SW. PIN:	•••••	
SIP TRUNK		SAVE	
SIP CALL			
ADVANCED			
PINCODE			
RESTORE			
LOG OUT			

### 3.4 Access

**DOOR RELAY TIME**: Time for lock-release relay remains active (option 1-9 s).

**DOOR DELAY TIME**: Is the time lasted between the moment in that the open door order has been sent and the moment in that the realy is activated. Open door relay is useful when the door is quite far from the panel. (option 0-9 s)

**DOOR ALARM:** An alarm will trigger if the door keeps opened after the programmed DOOR ALARM time. Options: disable, 30s. 60s. 120s, 180s and 250s.

**DOOR FORCED ALARM**: An alarm will trigger when an abnormal way to open the door has been detected, for example because there has not been any previous open the door command. **EXT. UNLOCK:** Activates or deactivates the additional relay performance (\*)

**Relay 1-4. DOOR RELAY TIME:** Time that the corresponding additional door relay keeps active (1-9 s optional).

**Relay 1-4 OPEN DOOR REALY:** Delayed time lasted between the unlock order and the activation of the corresponding relay. This parameter is useful when the door is not close the panel (0-9 s optional).

**ADMIN CARD.**: Wiegand CODE of the ADMIN card, that will later be useful for programing another user cards.

Default value (0000) causes that the first card presented on the reader becomes into the ADMIN card, so if there is still no intention of create an ADMIN card it is mandatory to change this value for any other (for example 1234).

**DISARM BY CARD**: When an already programmed user card is presented to the reader, and it has been previously assigned to a monitor, the alarm system of the corresponding apartment wich change to HOME mode.

GUEST CODE: Not available in this version.

WIEGAND: Protocol used for Wiegand transmission (BURST or 26 BITS)

FACILITY: Not available in this version.

ACCESS PIN: Enable or disable the access by means of a PIN code.

Up to 8 different PIN code for each panel.

Length of the PIN between 4 and 6 digits.

(\*) REMARKS: The additional relay module F01491 (4 relays module) shall be connected to the port RS485 in the panel N<sup> $\circ$ </sup> of the BLOCK.



### 3.5 Face Recognition

**FACE RECOGNITION**: Enable or disabled face recognition function. **SIMILARITY**: High, medium and low options. Default is LOW. The face data must be added through MEET management software.

DEVICE			FACE RECOGNITION
GENERAL			
NETWORK	FACE RECOGNITION:		
ACCESS	SIMILARITY:	LOW V	
FACE RECOG.		SAVE	
IP CAMERA			
SIP			
SIP TRUNK			
SIP CALL			
ADVANCED			
PINCODE			
RESTORE			
LOG OUT			

### 3.6 IP Camera

The monitor can switch to IP CCTV camera video during a conversation. This function allows to configure IP CCTV cameras using RTSP protocol to be displayed as an auxiliary camera to provide different view angles from the door or related areas.

NUMBER OF CAMS: IP camera Number. Up to 4 different cameras.

CAMERA 1: IP camera name.

URL: <u>rtsp://user:password@ip address of ip camera.</u>

User and password: for cameras that require a username and password for connection, these fields are optional.

Depending on the brand/model of the camera, it is possible that the format of this URL may be different. See data sheet of the corresponding camera.

DEVICE		1	P CAMERA SETTING
GENERAL			
NETWORK	NUMBER OF CAMS:	4 <b>v</b>	
ACCESS	CAMERA 1:	1	
	URL:	rtsp://admin:12345@10.10.10.10	
FACE RECOG.	CAMERA 2:	2	
IP CAMERA	URL:	rtsp://admin:12345@10.10.10.11	
SIP	CAMERA 3:	3	
	URL:	rtsp://admin:12345@10.10.10.12	
SIF INUMA	CAMERA 4:	4	
SIP CALL	URL:	rtsp://admin:12345@10.10.10.13	
ADVANCED			
PINCODE		SAVE	
RESTORE			
LOG OUT			

### 3.7 SIP Settings

**ENABLE SIP**: Enable or disable sip function.

SIP SERVER: SIP server IP address.

**DOMAIN**: Sip server domain.

OUTBOUND: Some servers are used when NAT is active on the router.

STUN IP: Audio and video NAT traversing public network server IP.

STUN PORT: The port of audio and video NAT traversing public network server.

H.264: Video coding parameters.

**SIP USER**: The username of sip account.

**SIP PASS**: The password of sip account.

**CONVERSATION**: Conversation duration, 120s, 300s, 600s, 1200s and 1800s optional. **RING TIME**: Ring time, 35s, 45s, 60s, 90s and 120s optional. **REMARK:** When the panel is used as a SIP device, SIP function has to be enabled and all SIP parameters corresponding to the used SIP server shall be configured.

DEVICE			SIP SETTING
GENERAL			
NETWORK	ENABLE SIP:		
ACCESS	SIP SERVER:	sip:192.168.12.40	
EACE RECOG	DOMAIN:	192.168.12.40	
TAGE RECOG.	OUTBOUND:	sip:	
IP CAMERA	STUN IP:	192.168.12.40	
SIP	STUN PORT:	5060	
	H.264:	102	
SIF IKONK	SIP USER:	100	
SIP CALL	SIP PASS:		
ADVANCED	CONVERSATION:	120s •	
PINCODE	RING TIME:	35s <b>v</b>	
RESTORE		SAVE	
LOG OUT			

### 3.8 SIP Trunk

When there is a VoIP gateway installed on the system or a sip server has a PSTN line. The panel call can be diverted to user's mobile phone or land line telephone through a voice gateway.

**ENABLE SIP TRUNK**: Enable or disable SIP trunk function.

URL: sip: sip account @ wan IP: 5062

DEVICE			SIP TRUNK SETTINGS
GENERAL			
NETWORK	ENABLE SIP TRUNK:		
ACCESS	URL:	sip:100@192.168.12.100	
FACE RECOG.		SAVE	
IP CAMERA			
SIP			
SIP TRUNK			
SIP CALL			
ADVANCED			
PINCODE			
RESTORE			
LOG OUT			

## 3.9 Pincode Settings

DEVICE			PINCODE SETTINGS
GENERAL			
NETWORK	CURRENT PIN:		
ACCESS	NEW PIN:		
FACE RECOG.	CONFIRM PIN.		
IP CAMERA		SAVE	
SIP			
SIP TRUNK			
SIP CALL			
ADVANCED			
PINCODE			
RESTORE			
LOG OUT			

This allows to change the pin code of the web server login.

### 3.10 Restore

**RESTORE FACTORY SETTINGS:** All the settings are restored to the factory settings. The IP address will be changed to the default IP: 10.1.0.1 **REBOOT DEVICE:** The panel will be restarted and will keep all the previous settings.

DEVICE	RESTORE
GENERAL	
NETWORK	RESTORE FACTORY SETTINGS
ACCESS	OK REBOOT DEVICE
FACE RECOG.	ОК
IP CAMERA	
SIP	
SIP TRUNK	
SIP CALL	
ADVANCED	
PINCODE	
RESTORE	
LOG OUT	

## 3.11 Logout

Log out the web server.

DEVICE	LOG OUT
GENERAL	
NETWORK	DO YOU CONFIRM TO LOG OUT?
ACCESS	
FACE RECOG.	OK
IP CAMERA	
SIP	
SIP TRUNK	
SIP CALL	
ADVANCED	
PINCODE	
RESTORE	
LOG OUT	

# **4** Installation

## 4.1 Installation height



### 4.2 Installation Step Diagram



1. Flush box install.





 The upper part of the panel is stuck in, then move the panel to the flush box.



4. Move the slider of the panel and fix the two screws. When installing, pay attention to the reservation of the 2.2 cm space around the door to move the slide cover.

### 4.3 Connectors

R. 145 Network	POWER 1 2 3 +12V — NA	OUTPUT   1 2 3 4 5   NC NC C C NO
	EX.PROXIMITY	
	1 2 3 4	
	+5V — WD0 WD1	
	Exit Button / Fire /Door Ser 1 2 3 4 EXIT — F DS	nsor RS485 1 2 485+ 485-

- 10/100Mbps RJ45 Port.
- +, —: 12Vdc Power Input.
- **C, NO, NC:** Relay contacts for release lock, the double terminals are the same connection.
- +5V, -, WD0, WD1: Wigand-26 protocol output or input.
- **EXIT,** —: Exit button.
- F, —: Fire alarm. Need connected Block Device Nº 1.
- —, **DS**: Door-open sensor.
- 485+, 485-: To lift control gateway, F01491 (4 relay module).

### 4.4 Technical Parameters

### Dimensions

Panel (mm): 154(W) ×379(H) ×50(D) Flush box (mm): 142(W) ×357(H) ×58(D)

Power supply: 12Vdc Standby current: 250mA Working current: 500mA

Technical specifications of the display: -Size: 4.3 inch -Format: 4:3 -Resolution: 480\*272

Camera pixel: 1.2 megapixels 90° visual angle: Horiziontal 72°, Vertical 54° Minimum illumination: 0.5Lux

Maximum conversation time: 120s Door relay time: 1-9s Door delay time: 0-9s IC cards: 100,000 Face data: 6000

Operating temperature: -10~70°C Relative humidity: 20%~80%, without condensation

### RADIO FREQUENCY MODULE. EC DECLARATION OF CONFORMITY:

FERMAX ELECTRÓNICA, S.A.U. declares that this product complies with the requirements in the RED 2014/53/EU Directive "Radio frequency equipment". <u>https://www.fermax.com/intl/en/pro/documents/technical-documentation/DT-13-declarations-of-conformity.html</u> Radio frequency module:

Frequency: 13.56MHz / Maximum Power: 3,90 dBm, equivalent to 2,45mW.