

RSS IP Lite M4, M7 and MW7 IP 4" and 7" Colour TFT Monitors

Installer Manual



IP-M7



IP-MW7



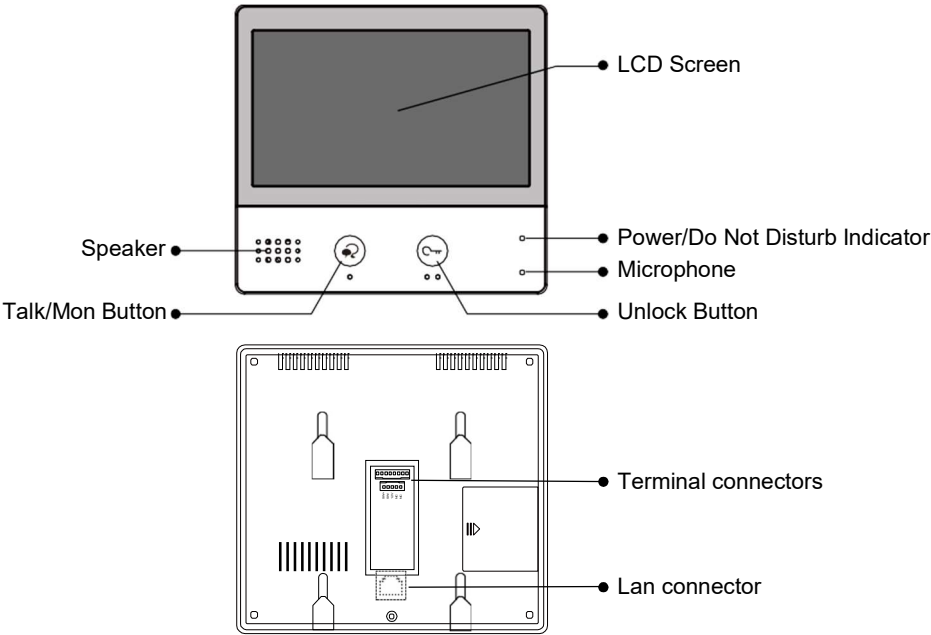
IP-M4

- Please read this manual carefully before using the product, and keep it for future reference.
- We reserve the right to modify the specification of the product in this manual at any time without notice.

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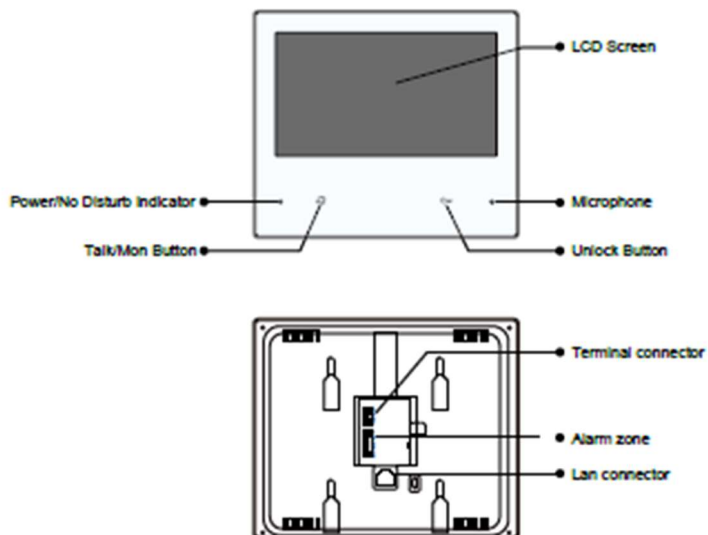
1. Parts and Functions IP-M7



Key functions

Speaker	Audio from the Entrance Panel.
Talk/Mon button	Tap to communicate hands free with callers. Tap to view the Entrance Panel video in standby mode (shortcut to monitor function)
LCD screen	Used to display video images.
Power/DND indicator	Shows the status of the system. Green – Standby Red – Do Not Disturb Red Flashing – Missed Call Blue – Incoming call
Microphone	Audio to the Entrance Panel
Unlock button	Tap to release the door currently in view.

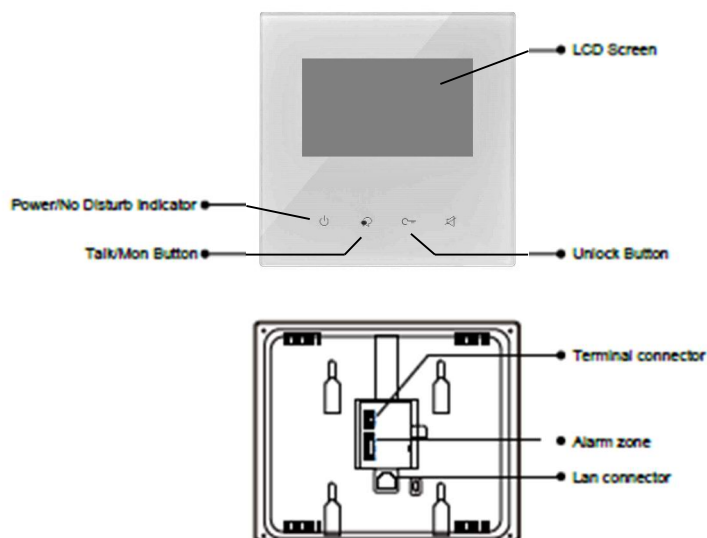
1. Parts and Functions IP-MW7



Key functions

Power/No Disturb indicator	Show the power status of the system. Show the no disturb status.
Talk/Mon button	Press to communicate hands free with visitor; Press to view the outdoor condition in standby mode.
LCD screen	Display the visitors' image.
Microphone	Transmit audio from one station to other stations.
Unlock button	Press to release the door.
Terminal connector	SW+,SW-: Extra door bell call button connection port. P+,P-: Use to connect 24V local power supply (HDR-30-24).
Alarm zone	
Lan connector	Use to connect the indoor station to the network.

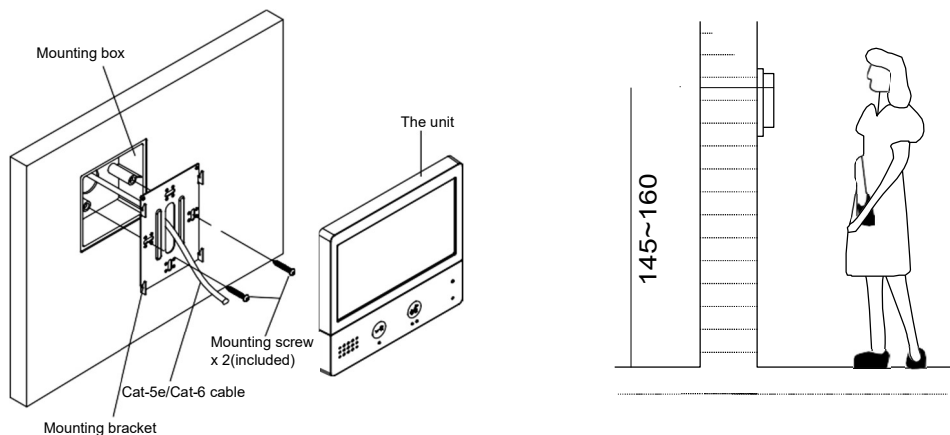
1. Parts and Functions IP-M4



Key functions

Power/No Disturb indicator	Show the power status of the system. Show the no disturb status.
Talk/Mon button	Press to communicate hands free with visitor; Press to view the outdoor condition in standby mode.
LCD screen	Display the visitors' image.
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Alarm zone	
Lan connector	Use to connect the indoor station to the network.

2. Mounting



The installation height is recommended as 145~160cm.

1. Use screws to fasten the mounting bracket to the wall with mounting box.
2. The fixing centres suit a standard single socket outlet back box.
3. Connect the cat-5e or cat-6 cables to the unit.
4. Mount the unit to the mounting bracket, make sure the unit is correctly attached to the mounting bracket.

Important Information

By default the monitor has two functions 'Enabled'

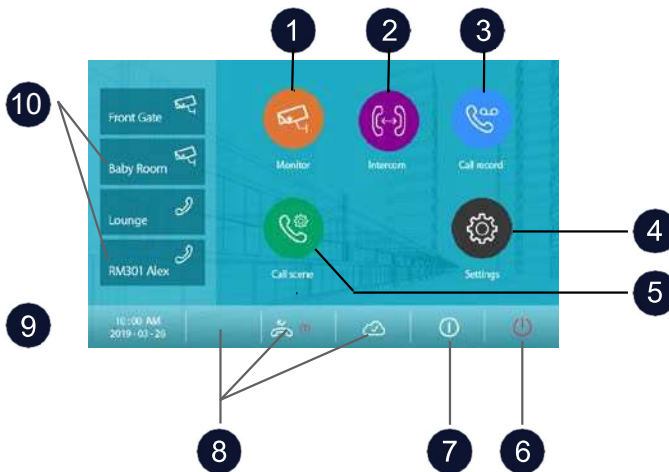
- 1 **Self Start (Monitor function)** this enables the camera in the door entry panel(s) to be turned ON remotely by the monitor.
- 2 **Intercommunication between dwellings**, this enables one dwelling to call another via a 'Names List'

If these functions are NOT required they must be disabled in Installer Settings when the monitor is installed and configured. See sections 6 and 7 for the functionality and section 13 for enabling and disabling the functions.

3. Home Screen IP-M4 and IP-M7

The Home Screen is your starting point for using all the applications on your monitor.

Tap the **Unlock** button, or tap anywhere on the screen in standby mode, the Home Screen will appear as shown below



- 1 Monitor icon**
Allows you to monitor the Entrance Panel and cameras.(if enabled by the installer)
- 2 Intercom icon**
Allows you to call other Monitors/Handsets
(If enabled by the installer)
- 3 Call Record icon**
Allows you to view the call record.
- 4 Setting icon**
Use to change the Monitors settings.
- 5 Call Scene icon**
Allows you to activate the functions of Do Not Disturb/Divert
- 6 Close icon**
Touch to turn off the screen.
- 7 About icon**
Allows you to view the information about device.
- 8 Status bar**
Displays icons that indicate the Monitors Status (see status bar icons on page4)
- 9 Date and time**
Allows you to set date and time for device.
- 10 Shortcut Buttons**
Tap to enter the corresponding items directly.

3. Home Screen IP-MW4



- 1 Intercom icon**
Allows you to call other indoor station.

- 6 Close icon**
Touch to turn off the screen.

- 2 Call Record icon**
Allows you to view the call record.

- 7 About icon**
Allows you to view the information about device.

- 3 Monitor icon**
Allows you to monitor the door stations, cameras.









- 8 Status bar**
Displays icons that indicate the indoor station's status(see 4. Status bar icons(page4)).

- 4 Setting icon**
Use to change the indoor station's settings.




- 5 Call Scene icon**
Allows you to activate the functions of No disturb, Divert.

- 10 Shortcut windows**
Touch to enter the corresponding items directly.

4. Status Bar Icons





Icon	Description	
	Missed call	Indicates 1 or more missed calls. Tap to review the missed call.
	Do Not Disturb	Indicates the device is in “Do Not Disturb” mode.
	Divert call	Indicates the device is in “Divert call” mode.
	Device online	Indicates the device is online, but not connected to the internet.
	Cloud server connected	Indicates the device is connected to the cloud server.
	Cloud server not connected	Indicates the device is not connected to the cloud server.
	Cloud server anomaly	Indicates the device cloud server connection is abnormal.
	mute	Indicates the device is in “Mute” mode.

Other status icons

Icon	Description	
	Recording	Indicates the device is recording
	Talking	Indicates the device is in “talk” status.
	Unlock	The currently viewed door is open.

5. Answering a Call

When you receive a call, the Monitor will ring (unless it is in “Do not disturb” mode) The callers’ image will be displayed on the screen.

1. Tap the  icon or  **TALK/MON** button to speak to the caller.
 - Speak within about 50 cm of the microphone.
 - Begin communicating hands free with the visitor for up to 90 seconds.
2. When finished, tap the  icon or  **TALK/MON** button again to finish the call.

During a call the following functions are available:

- Door release
- Manual recording of Audio and Video

Notes:

1.Receiving a call while talking with an Entrance Panel

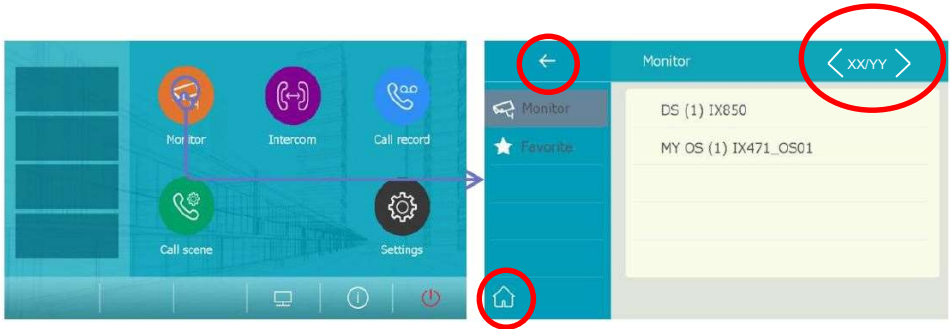
- Only one call can take place at a time.
- Conclude the current communication and then answer any other calls.

2.Receiving a call while talking with other monitors

- Calls from Entrance Panels will interrupt internal calls.
- The video image from the Entrance Panel will be displayed on the screen, all standard features will be available.

6. Monitoring

This section can be used to monitor video from Entrance Panels and any configured additional cameras if the function has been enabled by the installer.



1. From the Home Screen, tap the **"Monitor"** icon.
2. The Monitor screen shown above will be presented
 - This allows you to select Entrance Panel camera(s) or IP camera(s) (if the system has been configured for multi Entrance Panels and/or IP cameras)
3. Tap the desired video source (If the function is disabled no video image will appear)
4. When finished, tap ← button (back button) on panel.

* During monitoring, images can be viewed, but audio cannot be heard.

Available functions during monitoring:

- Door release
- Manual recording

Note: If monitors or cameras have been setup as 'Shortcuts' tap the appropriate shortcut icon to view the video images from the monitor or camera identified in the 'Shortcut'

Please note that whilst accessing menus the following symbols may appear on the display as identified on the screen shot above:

 Returns to the Home screen

← Returns to the previous menu

<XX/YY> Indicates Screen xx of yy Tap left or right arrow to access previous or next.

7. Making Calls

You can call other residences, common area phones, concierge (if installed) and other monitors within your dwelling.

Namelist Call

1. From the main menu, tap the **"Intercom"** icon.
 - A list of available items is displayed.
2. Tap **"Namelist"**.
 - A list of names is displayed (if the system has been configured with names)
3. Tap the desired name.
 - This will initiate a call to the device selected.

Internal Calls

If you have monitors installed in different rooms in your residence, you can call other monitors and use the system as an intercom.


1. From the main menu, tap the **"Intercom"** icon.
 - A list of available items is displayed.
2. Tap **"Inner call"**.
 - A list of Master and Slave monitors is displayed.
3. Tap the desired device to call.
 - This will initiate an internal call.
 - # Please note: calling to other dwellings can be enabled or disabled in Installer Settings #

Calling Concierge station (if it is configured)

1. From the main menu, tap the **"Intercom"** icon.
 - A list of available items is displayed.
2. Tap **"Guard station"**.
 - This will call the Concierge directly if this facility is available.

8. View Call Record

The monitor records information about calls you have answered, missed, and made, and saves it in the call record. See the following steps to view the call record.

1. From the main menu, tap **"Call record"** icon.
2. Tap the desired button.
 - **Missed**: Displays calls you received but did not answer.
 - **Incoming**: Displays calls you answered.
 - **Outgoing**: Displays calls you made.
 - **Playback**: Displays pictures/videos you received / made.
3. Browse the call record as needed.
4. When finished, tap ← to return to the previous menu.(or tap  to return to the home screen)

Play pictures/videos

You can record camera images/videos manually while talking to a visitor or monitoring camera images/videos. See the following steps to play the pictures/videos.

1. From the main menu, tap **"Call record"** icon.
2. Tap the desired button.
3. Tap the desired call record.
 - Displays the images/videos
4. When finished, tap ← to return.

Controlling pictures/videos playback

The following controls are available by tapping the screen while viewing an image or video.



Plays the image/video.



Plays the next image/video.



Plays the previous image/video.



Delete image/video.



Delete confirm.

Limitations


Up to 120 records can be saved, up to 120 images can be saved. Subsequent records/images/videos will overwrite the oldest items.

9. Do Not Disturb Mode

During a certain period, if you do not want to be disturbed, you can set the Do Not Disturb mode.

1. From the Home Screen, tap "**Call scene**"
2. Tap the desired mode.
 - **No Disturb 8H**: This sets the monitor to Do No Disturb mode for 8 hours, after the 8 hours have expired the monitor will exit "Do Not Disturb" mode
 - **No Disturb Always**: This sets the Monitor to Do Not Disturb mode until it is manually turned off.

Note:

The Power/Do Not Disturb indicator turns from green to red, to indicate that the do not disturb function has been activated. The status bar on the Home Screen will show the  icon.

10. Divert Calls

The call from the Entrance Panel can be diverted to your smart phone, please note that this function should be supported by a SIP network (See notes below)

1. From the home screen, tap the **"Call scene"** icon.
2. Tap the desired function.
 - **Divert call if no answer:** If nobody answers the call within 30s the call from the entrance panel will be diverted to the smart phone. In this mode the monitor will always turn on and show the image from the entrance panel, if the monitor answers the call during this time the diverted call to the smart phone will be terminated.
 - ***Divert call always:** When the monitor is called with this option selected, the call is diverted directly to the smart phone. In this mode, the monitor will shut off the screen after diverting successfully.

*This function will perform immediately if selected and the status bar on the main menu interface will show "☎" icon.

Note:

To divert calls to a smart phone via a Sip server there are specific requirements.






For a single dwelling with one or more monitors the Door Entry IP network needs to have a wired connection to the dwellings private internet connection. (Door Entry IP network connected to private Internet Router via an Ethernet cable)

For multiple dwellings connected to the same Door Entry IP network there will need to be a wired connection from the Door Entry IP network to a public internet connection which is shared amongst ALL of the dwellings connected to the Door Entry IP network. (Door Entry IP network connected to the public Internet Router via an Ethernet cable)

11. Changing the Monitor's Settings

1. From the main menu, tap the **"Setting"** icon.
- A list of available setting categories is displayed.
2. Only **Call Tune** can be accessed by the User, Tap **Call Tune**
3. Tap the desired setting category.
4. Change the settings as desired.
5. Tap ← / 🏠 to save the new setting.

List of settings

 Call Tune >	Ring volume - Ring timing - DS ring - CDS ring - OS ring - Message ring - Doorbell ring - Intercom ring - Innercall ring - Alarm ring
 General >	Date and time - Language - Monitor timing - Shortcut setting - SD card
 Installer >	IP address - Call_Nbr - Parameter - Upgrade - Onsite tools – Intercom function – Monitor door
 Manager >	Sipconfig - Private unlock code - Common unlock code - Card manager - Back and restore
 Ext.Unit	Auto setup wizard - IM extensions - Outdoor Stations - IPC camera - Enter OS binding

Settings in **Red** above will require the Installer or Manager password for access. Contact Raytel Security Systems for the default passwords.

The  **Call Tune** Sub menu is as follows:

Ring volume: adjusts the ringtone volume.

Ring timing: adjusts the ringtone time.

DS ring: enables selection of the call tone from door entrance panel(s) (Block Panels)

CDS ring: enables selection of the call tone from common door entrance panel(s) (Perimeter Panel)

OS ring: Enables selection of the call tone from outer entrance panel unique to the dwelling.

Message ring: Enables selection of the call tone when a message is received.


DoorBell ring: Enables the selection of the call tone from the doorbell (if configured)

Intercom ring: Enables the selection of the call tone from the monitor of another dwelling.


Innercall ring: Enables the selection of the call tone from another monitor within the dwelling.

Alarm ring: Enables the selection of the call tone when an alarm is initiated (if configured).

Example: "DS ring" (Entrance Panel Call) setting

1. From the Home Screen, tap the **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Tap "Call Tune", and then tap "DS ring".
 - A list of available tunes is displayed.
3. Tap the desired tune. (The tune will play after a few seconds)
4. Tap ← /  to save the new setting.

12. General Settings

The  **General** settings menu is as follows (as each sub-menu item is selected the Manager password will be requested)

Date and time: Sets the date and time

Language: Sets the language

Monitor timing: Sets the conversation time in 30 Second steps

Shortcut setting: Sets the shortcuts (up to 4)

SD Card: Functions associated with an SD card if fitted

Example: "Date and time" setting

1. From the Home Screen, tap the **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Tap "General", and then tap "Date and time" item.

Enter the Manager Password

- The Date and time setting interface is displayed.
3. Tap and change the settings as desired.
 4. Tap ← / ↗ to save the new setting.

Date mode: 2 display options: month/date/year and date/month/year

Time mode: 2 display options: HOUR_12 and HOUR_24.

Date: Tap to set the date.

Time: Tap to set the time.

Internet time: Tap and the monitor will synchronize the system time (when an internet connection has been configured via a SIP server)

Example: "Language" setting

1. From the Home Screen, tap the **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Tap "General", and then tap "Language" item.

Enter the Manager Password

- The Language interface is displayed.

3. Tap and change the settings as desired.
4. Tap ← / 🏠 to save the new setting.


Example: "Shortcut setting"

1. From the Home Screen, tap the **"Setting"** icon.
 - A list of available setting categories is displayed.
2. Tap "General", and then tap "Shortcut setting" item.

Enter the Manager Password

- The Shortcut setting interface is displayed.
3. Tap the type of function for which you want to add/remove a quick action.
 4. Tap ← / 🏠 to save the new setting.

13. Installer Settings

The  **Installer** settings menu is as follows (when the sub menu is selected the installer password will be requested)

Screen 1 of 2

IP Address: Enables the setting of the monitor IP address

Call Nbr: Enables the configuration of the system

Parameter: Enables access to additional settings

Upgrade: Enables access to system firmware updates

Onsite Tools: Enables access to a suite of tools for commissioning and fault finding

Screen 2 of 2

Intercom Function: Enables the intercom function to be toggled on or off

Monitor Door: Enables the 'Self Start' function to be toggled on or off

Within all of the Installer Settings menus the current values for each setting will be shown in **RED** to the right of the setting description.

On the first installer screen the following can be accessed:

IP Address

From the Installer Screen tap **IP Address**

The **IP Address** Screen will show all of the current IP settings for the monitor. If **IP Assigned** is set to DHCP&AUTO all other parameters shown are for information only.

By tapping **IP Assigned** the IP addressing method can be changed, we would recommend leaving this as DHCP&AUTO if a custom configuration is required STATIC can be selected, however we would only recommend this when advised by Raytel Technical OR if you have sufficient network knowledge to manually set the IP addressing for the whole installation.

Call_Nbr

From the Installer Screen, tap **Call_Nbr** (Screen 1 below)

Input password if required (Screen 2 below)



Then tap **Device_Addr** (Screen 3 above)

By default the Device Address is **(VS) Single Family** which is for a single dwelling with 1 or more Entrance Panels and 1 or more monitors.

In Screen 4 above the options are:

(VS) Single Family: This option is for a single dwelling with 1 or more Entrance Panels and 1 or more Monitors, this defines a standalone system.

(SS) Standalone Apartment: This option is for multiple dwellings in a standalone building. There may be more than one Entrance Panel and there may be more than one monitor per dwelling. Tap to select and then input the dwelling number **RM_Nbr** (up to 4 digits can be used)

eg: Tap **(SS) Standalone Apartment** and input 0001 for dwelling 1 in a standalone building.

(NS) Networked System: This option is for numbering dwellings in a multi block complex system. Tap to select and input the dwelling number and Block reference **RM_Nbr** Input the 8 digit number (this must be an 8-digit input) defining the dwelling number and it's block number, the first 4digits are the building/block number and the last 4digits are the dwelling number.

eg: Tap **(NS) Networked System** and input 00010003 for the 1st building 3rd dwelling, or 00030005 for the 3rd building 5th dwelling.

In this configuration there can be Perimeter Entrance Panels capable of calling all dwellings in all blocks, there can be Block Entrance Panels which can call the dwellings in the individual blocks and there can be one or more monitors in each dwelling.

Please note a 'Device Addr' must be set, the default is (VS) Single family.

Restore Call_Nbr default: This setting does not need to be accessed for initial setup.

Update Call_Nbr from RES: This setting does not need to be accessed for initial setup

Once **Device Addr** has been set tap ← to return to screen 3.

In screen 3 tap and set the following parameters:

MS_NBR:

Master and slave number, 01 is the Master monitor, 02~32 are slave monitors associated to the master monitor and will call at the same time as the master monitor.

Name:

The “Name” Entered here will sync to the Entrance Panel calling list automatically. This is the name allocated to the device: In a single dwelling the name may reflect rooms in the dwelling, in a block of dwellings the name would reflect the dwelling name.

Global_Nbr:

This is an extra call number (if required) for a common Entrance Panel calling to this monitor in complex systems.

Local_Nbr:

This is an extra call number (if required) for an additional Entrance Panel in the same building calling to this monitor in complex systems.

Tap ← to return to screen 3 after each setting.

Parameter

Within all of the Parameter Settings menus the current values for each setting will be shown in **RED** to the right of the setting description.

##Do not change any of the device settings reported in the **Parameter settings** menus unless Raytel Security Systems Technical Support have confirmed this action ##

From the Installer Screen, tap the **Parameter** icon

Input password if required

The following buttons will be available:

Network Settings: Tapping Network Settings will provide the list of settings shown below, existing settings will be shown in **RED** to the right of the setting description.

IP Policy

Static IP addr

Static IP subnet

Static IP gateway

MAC address

AutoIP segment

AutoIP Subnet address

AutoIP Gateway

Call Settings: Tapping Call Settings will provide the list of settings shown below, existing settings will be shown in **RED** to the right of the setting description.

Device_Addr

Global_Nbr

Local_Nbr

Name

SIP Server

SIP Port

SIP local account

SIP local PWD

Lock&Pwd: Tapping Lock& Pwd will provide the list of settings shown below, existing settings will be shown in **RED** to the right of the setting description.

Installer PWD	Default xxxxxxxx can be changed as required
Manager PWD	Default yyyyyyyy can be changed as required
Auto close after unlock	

Hardware setting: Tapping Hardware Settings will provide the list of settings shown below, existing settings will be shown in **RED** to the right of the setting description.

Mic volume
SPK volume

Others: Tapping Others will provide the list of settings shown below, existing settings will be shown in **RED** to the right of the setting description.

Brightness
List display smart address
List Call_Nbr if available
List display name only
Upgrade server
Upgrade code
Upgrade source
Reboot timing if network error
Z port Mode

Upgrade

Only use the Upgrade function when advised to do so by Raytel Security Systems Technical support. Firmware 'upgrades' should only be installed when advised by Raytel Security Systems technical support.

On Site Tools

From the Installer Screen, tap the **On Site Tools** icon
Input password if required.

When selected this provides a suite of diagnostic and setup tools for the network and the devices connected. See page 24 for details.

On the second Installer screen the following functions can be accessed.


Intercom Function

Enables the intercom function to be toggled on or off

Monitor Door

Enables the 'Self Start' function to be toggled on or off

14. Manager Settings

The  **Manager** settings menu is as follows (when the sub menu is tapped the manager password will be requested)

Sipconfig: Enables access to the following settings (existing settings will be shown in **RED** to the right of the setting description – Do not change any of these settings without guidance from Raytel Security Systems – Technical Support)

SIP enable

Divert account

Divert PWD

SIP Server

Re register

Use default

Remote mon code

Remote call code

Local account

Local PWD

SIP port

Private unlock code: Enables the lock code associated to the monitor/dwelling to be identified and changed remotely on Entrance Panels if required.

Common unlock code: Shows common unlock codes allocated to Entrance Panels(s) where this function is available.

Card Manager: Shows cards/tokens associated with the monitor/dwelling


Back and restore: enables

Backup

Restore from Backup

Restore factory settings

15. Ext. Unit Settings

The  **Ext Unit** settings menu is as follows (when the items are tapped the installer password will be requested)

Auto setup wizard: Enables an automatic setup process.

IM Extensions: Shows the number of monitors configured as slaves to the Master device.

Outdoor stations: Shows the number of Entrance Panels visible to the monitor.

IPC camera: Shows the number of IP cameras visible to the monitor.

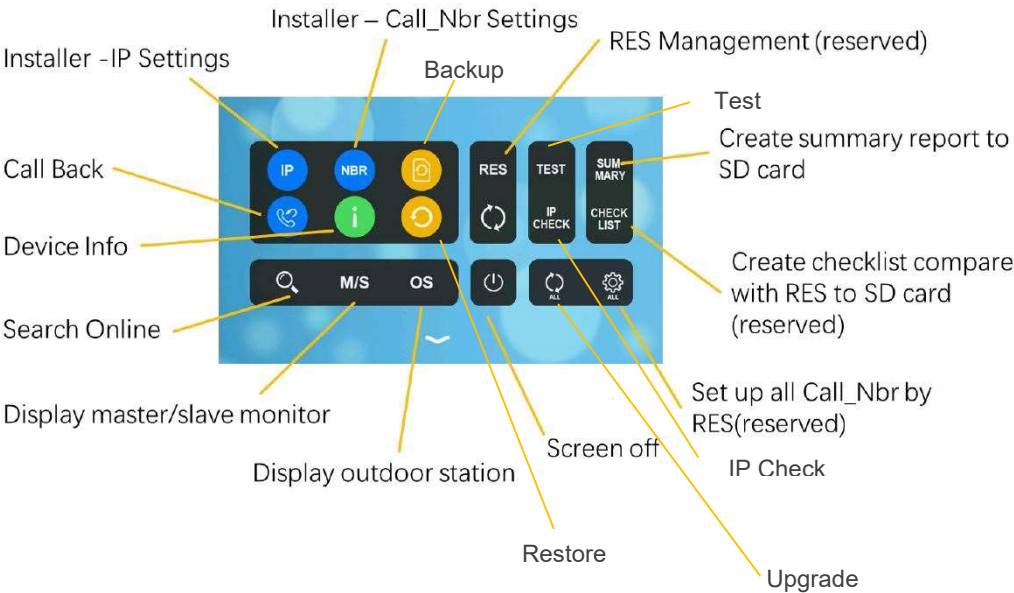
Enter OS binding: Enables a single button Entrance Panel (IP-P1) to be linked to the monitor or monitors for call purposes (See IP-P1 Installation manual for further details)


Note: Other settings are related to the system type. Please make settings according to the functions provided by your system.

16. On Site Tools

From the Installer Screen, tap the **On Site Tools** icon
Input password if required

The screen below will be displayed.



Tap the  button to return to the Home screen.
See the next page for functions.

Functions are as follows:

Installer – IP Settings. = Section 13 – IP Address

Installer – Call_Nbr Settings. = Section 13 Call_Nbr

Backup – = Section 14 – Backup – New backup

RES Management (reserved) **

Test – = Auto test tools, which can be used to monitor and test the installation.

Create summary report to SD card – SD card required **

Create checklist compare with RES to SD card – SD card required **

Set up Call_Nbr by RES – Reserved function **

IP Check = Section 13 – Installer – IP Address - Address check

Upgrade – Firmware upgrade **

Screen off – This restarts the monitor.

Restore – Restore from backup **

Display outdoor station = Section 15 Settings – Ext Unit – Outdoor Stations

Display master/slave monitor = Section 15 Settings – Ext Unit – IM Extensions

Search Online – This provides a facility to identify all IP Lite devices currently on line.

Device Info – Provides information on the device.

Call Back – This sets up an auto call back for testing purposes.

** These functions should only be used when advised by Raytel Security Systems technical support.

17. Specification

- Power Source: Power-over-Ethernet (IEEE 802.3af Class 0)
- LAN Interface: 10 BASE-T / 100 BASE-TX Ethernet (RJ-45)
- Monitor screen: 7 Inch digital colour TFT
- Display Resolutions: 800*480 resolution
- Wire Type: Cat-5e or Cat-6
- Wiring Distance: 100m (Approx. 330') Maximum
- Operating temperature: -10 to +50 (oC)
- Dimension: 161(H)×174(W)×22(D)mm

18. Precautions

- 1) The monitor should be protected from vibration, and should not be knocked or dropped.
- 2) Only clean the monitor with a soft cotton cloth, please do not use any organic or chemical cleaning agents. If necessary, please use a little pure water or dilute soapy water to remove dust.
- 3) Image distortion may occur if the video monitor is mounted too close to magnetic field e. g. Microwaves, TV, computer etc.
- 4) Please keep the monitor free from moisture, high temperatures, dust, etc in order to avoid damage.
- 5) The correct adaptor (RJ45) should be used for connection to the PoE switch.
- 6) There are no serviceable parts in the monitor and it should not be opened by untrained personnel.

The design and specifications can be changed without notice to the user. The copyright of this manual is reserved.