

1 by Multi Video Intercom System Installation Guide



Panasonic

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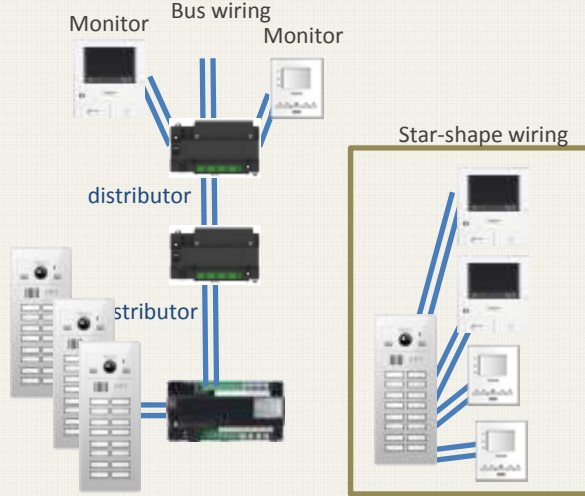

5. Appendix

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1. Specifications

1. Specifications

1-1. Comparison

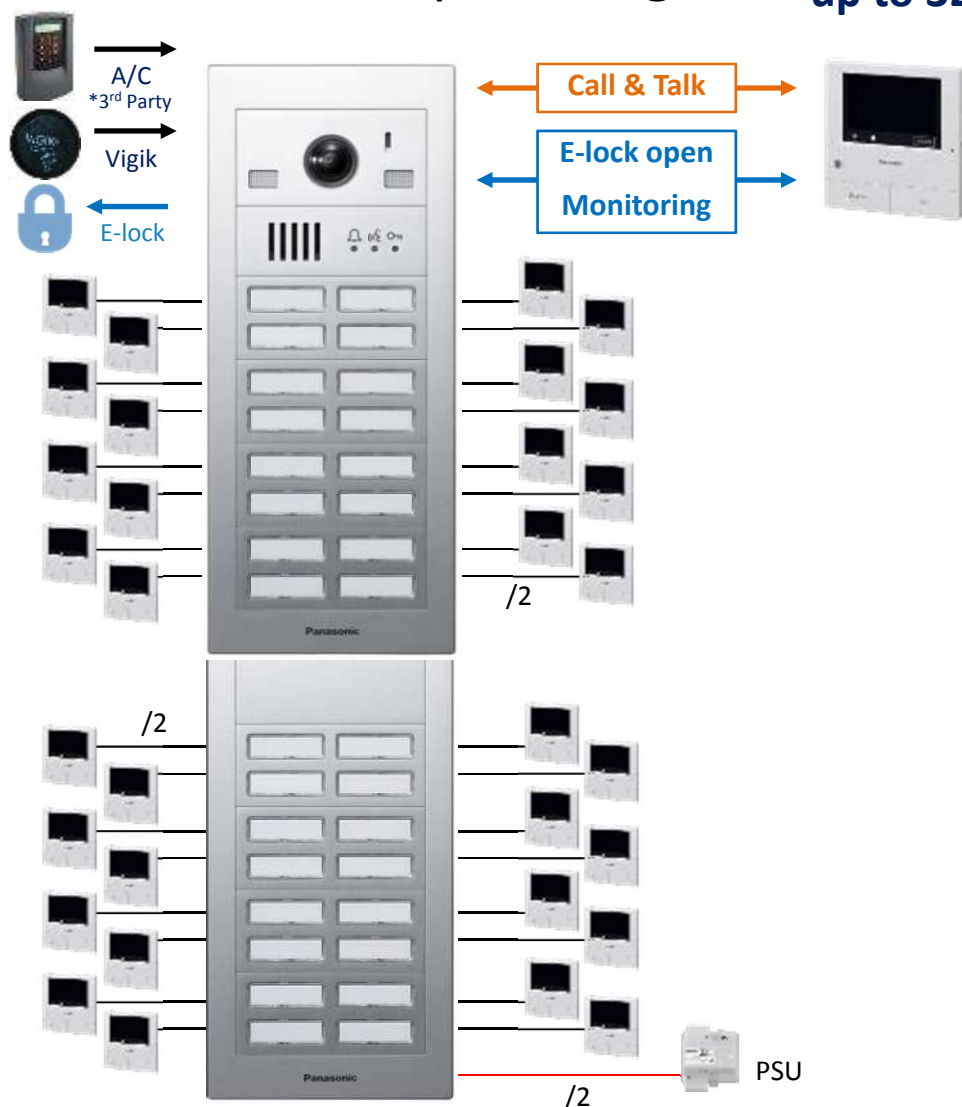
Item		VL-VM Series (1 by Multi)	VL-V900 series (Analog)
System diagram Example			
General	Expandability	32	560 (Enhanced System : 2240)
	Power Source	DC 24V	DC 24V
	IP / IK rating	IP55 / IK08	IP55 / IK07
	Operating environment	- 15 deg. To 55 deg. Celsius	- 10 deg. To 55deg. Celsius
	Surface material	Metal (Machine cut aluminum)	Stainless steel (partially ABS and PC)
Camera Unit	Image sensor	Approx. 1M pixels C-MOS sensor	Approx. 1M pixels C-MOS sensor
	Camera angle	H. 170 degrees V. 110 degrees	H. 170 degrees V. 115 degrees
	Lighting method	White color LED	White color LED
	Minimum illuminance	1 lx	1 lx
Calling I/F	Calling Method	Direct Call Button Name plate access from front side	Call by input Key Room Number or selecting List of Phone book
	Back lighting	White color LED	White color LED

*Some Power Supply Units (PSUs) are abbreviated in figures. The configuration of PSUs depends on system requirement and specification of devices selected in each system.

1-2. System Overview

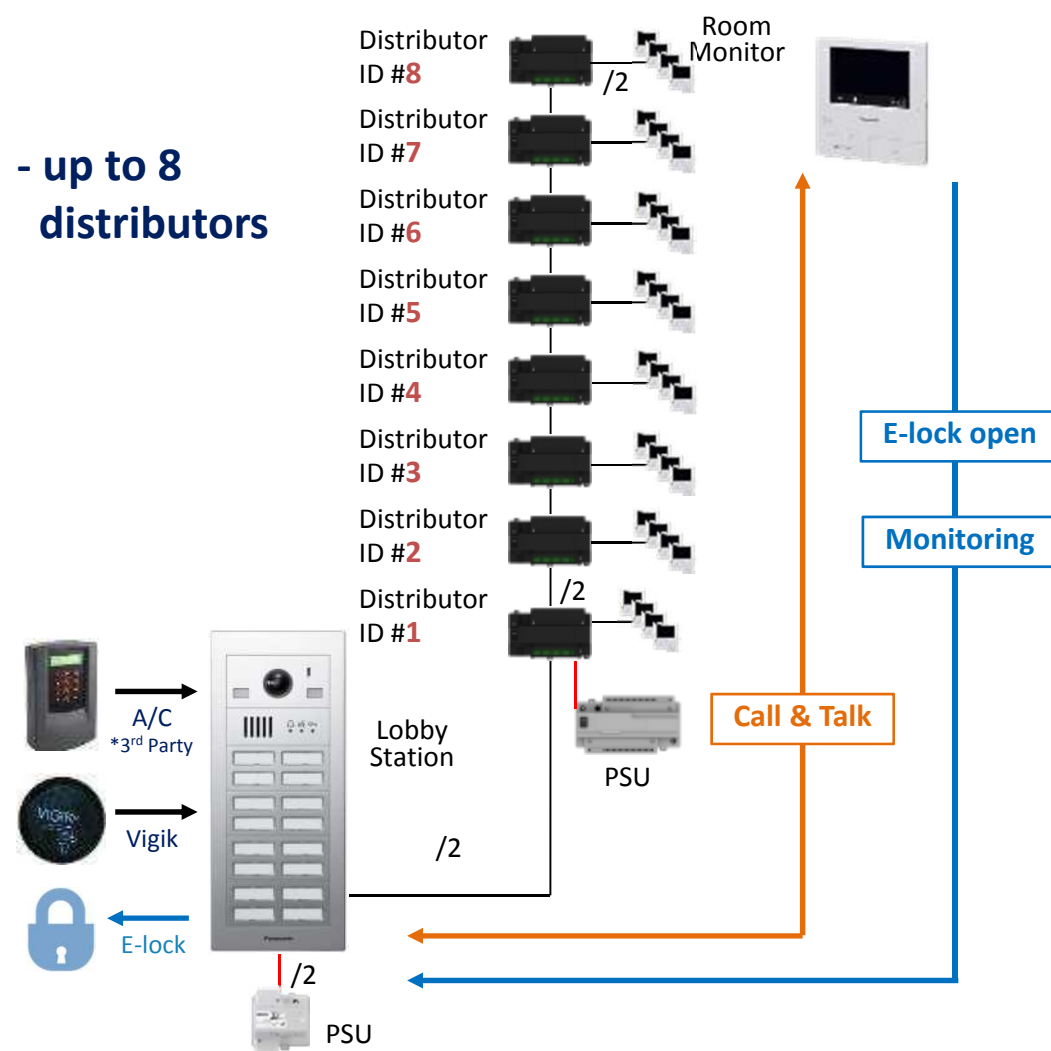
Star shape wiring

- up to 32 room monitors



Bus wiring

- up to 8 distributors



Panasonic system is only available for both wiring topology.

1-3. Product Line-up

Product Image



Camera Module
VL-VM101



1-Button Module
VL-VM301



2-Button Module
VL-VM302



Blank Panel
VL-VM901



3-Button Module
VL-VM303



4-Button Module
VL-VM304



Vigik Panel
VL-VM902

*Vigik module is sold by 3rd party.



Surface Mount Cover
(Smaller Type)
VL-VM502



Surface Mount Cover
(Large Type)
VL-VM503



Back Box (Small Type)
VL-VM602



Back Box (Large Type)
VL-VM603



Extension Cable
VL-VM801



Distributor
VL-VM701



High Power Type PSU
VL-PS2410




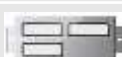











PSU
VL-PS240



Room Monitor
VL-MWD501/VL-MVN511/VL-MV10EX

1-4. Module Line-up

Model No.	Module	Image	Size	Description
VL-VM101EX	Camera module		Full module size	Central unit with a camera , speaker and microphone. *Camera = 1M pixels
VL-VM301EX	1-button module		Half module size	Call button with backlight
VL-VM302EX	2-buttons module			
VL-VM303EX	3-buttons module			
VL-VM304EX	4-buttons module			
VL-VM502EX	Surface Mount Cover (Small Type)		-	Cover for surface mount
VL-VM503EX	Surface Mount Cover (Large Type)			
VL-VM602EX	Back Box (Small Type)		-	Flush mount box
VL-VM603EX	Back Box (Large Type)			
VL-VM901EX	Blank Panel		Half module size	Panel for unfilled space.
VL-VM902EX	Vigik Panel		Half module size	
VL-VM801	Extension Cable		-	Cable for extension
VL-VM701EX	Distributer		-	Distribution box for room monitor
VL-PS2410	High Power Type PSU		-	High-power type PSU
VL-PS240	PSU		-	Standard type PSU

1-5. Lobby Station-1



Role of the Lobby Station

Door entry panel for the public entrance of housing complexes.
Direct button to call resident.

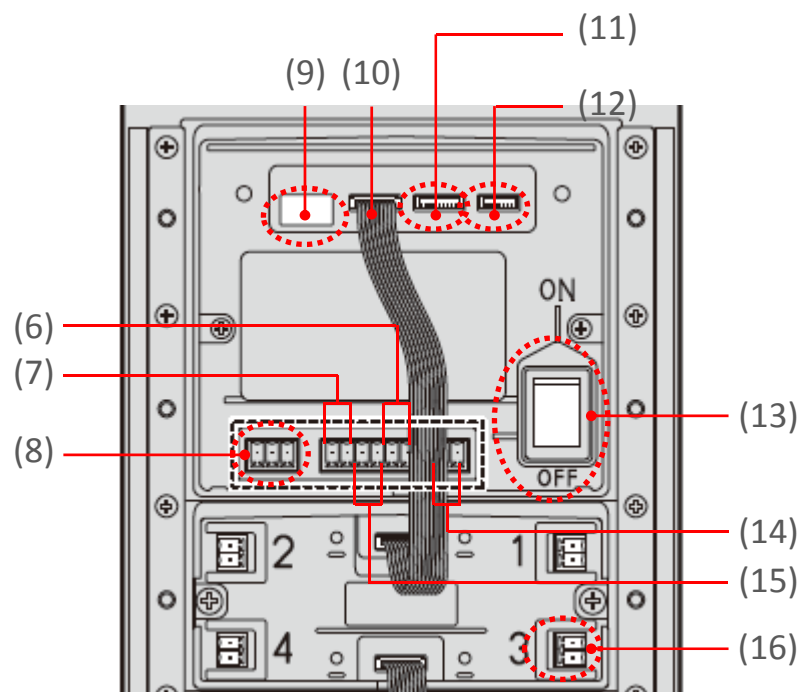
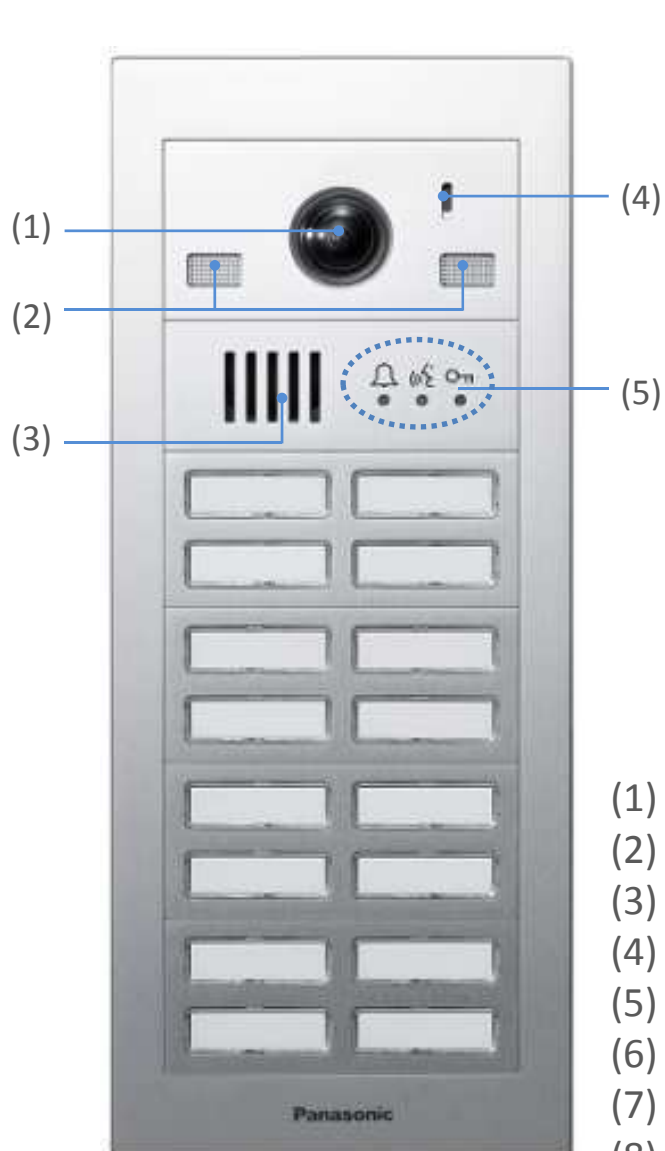
Features

- 1M pixels camera
- **Wide angle camera (Horizontally=approx.170°, Vertically=approx.110°)**
- White key backlit with illuminance sensor.
- **Front accessible name plate (Inaccessible type is also available)**
- White coloured LED※ lights for night colour vision with illuminance sensor
(※The life of a Key backlight LED : 23 years)
- Status Indicators (Calling/Talking/Door Opening)
- Audio guidance for DDA. (Door opening=EN, FR, DE, ES, IT, NL, AR, FA)
- **IP55/IK08 (Aluminum panel)**

Connectable devices

- Electric locks (3rd party)
- Access control (3rd party)

1-6. Lobby Station-2



- | | |
|---|--|
| (1) Camera lens | (9) Dip switch for setting |
| (2) Light (for night vision) | (10) Connector cable for module connection |
| (3) Speaker | (11) Connector for DDA module (TBD) |
| (4) Mic | (12) Connector for 12key module (TBD) |
| (5) Status indicator (Calling/Talking/Door opening) | (13) Power switch |
| (6) Terminal for bus wiring | (14) Terminal for DC in |
| (7) Vigik module input | (15) K-IN |
| (8) K-OUT for NC/NO | (16) Terminal for star shape wiring |

1-7. Distributor : VL-VM701

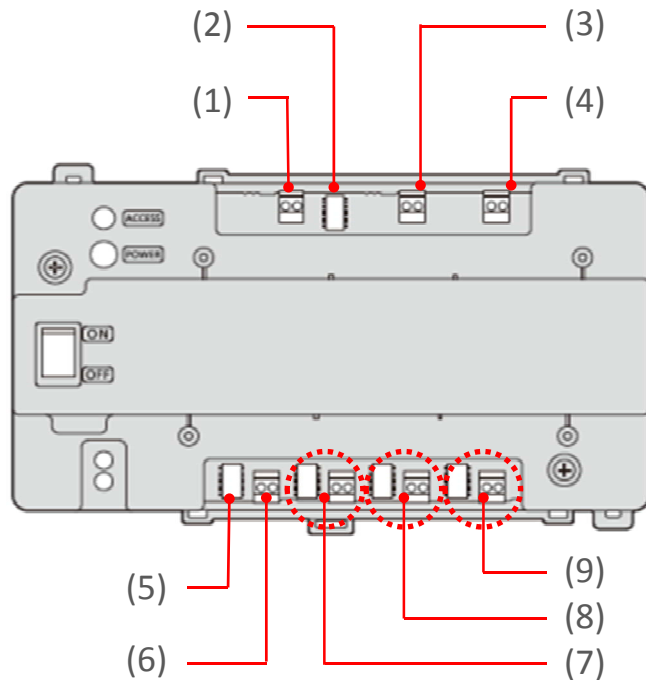


Role of the Distributor

Distribution box for the room monitor in “Bus Wiring”.
This unit is not necessary for “Star-Shape Wiring”.

Features

- Up to 4 room monitors can be connected per a distributor.
- Powered by PSU(PS240 or PS2410),
or bus-powered by previous distributor.



- (1) Terminal for DC in
- (2) DIP SW for distributor ID
- (3) Terminal for bus wiring input
- (4) Terminal for bus wiring output
- (5) DIP SW for Line1 Room No.
- (6) Terminal for Line1
- (7) Terminal & DIP SW for Line2
- (8) Terminal & DIP SW for Line3
- (9) Terminal & DIP SW for Line4

1-8. High Power Type PSU : VL-PS2410



Role of the High Power Type PSU

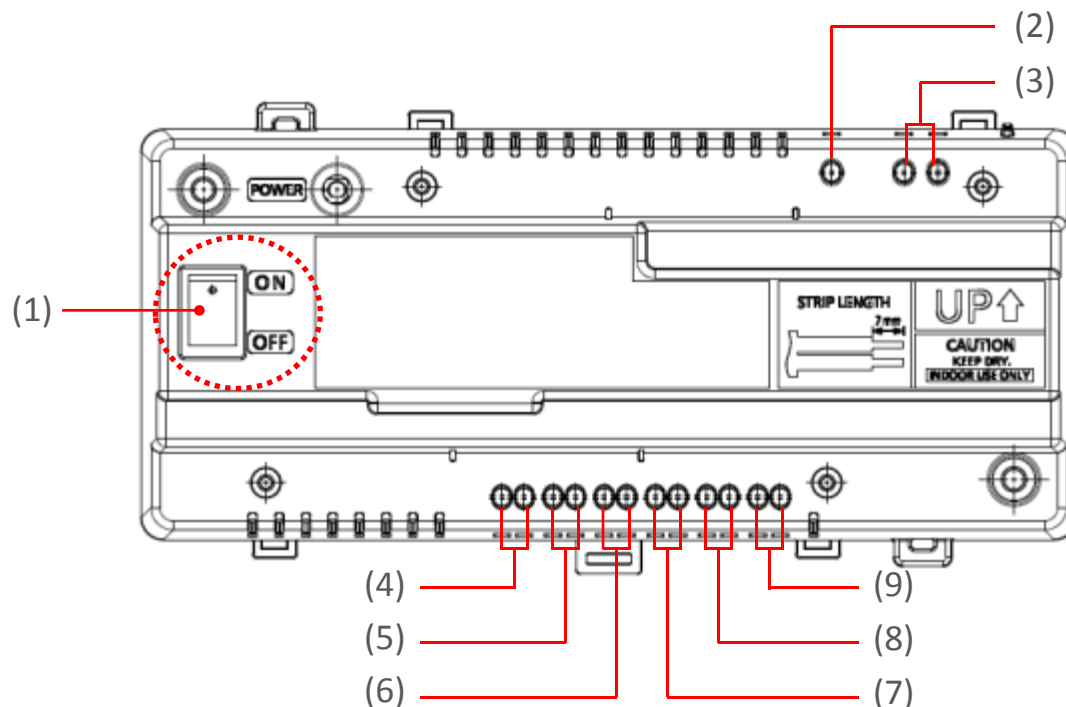
High power type PSU which is suitable for apartment system.

Input : 220-240 VAC.

Output : 24 VDC. / 2.5A

Features

- Up to 6 outputs. Total output current < 2.5A
- Mountable on a DIN rail or attach to a wall directly.



- (1) Power Switch
- (2) Terminal for Ground
- (3) Terminal for AC input
- (4) Terminal for DC output 1
- (5) Terminal for DC output 2
- (6) Terminal for DC output 3
- (7) Terminal for DC output 4
- (8) Terminal for DC output 5
- (9) Terminal for DC output 6

2. Features

2-1. Stylish Design

Stylish Lobby Station

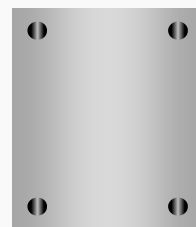


- Hairline Finish
- Compact Design
- Big Button
- LED Indicator

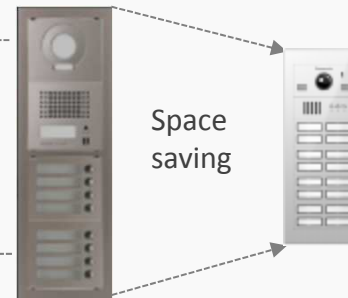
2-2. Compact Design

【Back Ground of smaller lobby size】

In the retro-fit market, the newly installed lobby station must be smaller than existing one.



Panel size



Space
saving

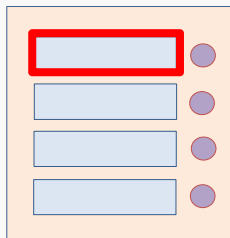
Possible

Installers prefer small lobby
wall print.

Impossible to fix

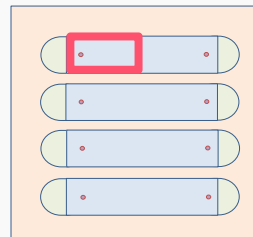
【Problem of the smaller lobby station】

Name Plate is big.
But there are only 4 buttons.



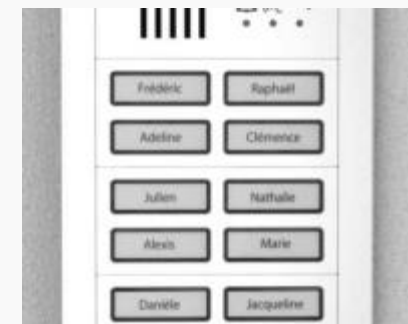
A company

There are 8 buttons.
But button and name
plate is small.



F company (8 button type)

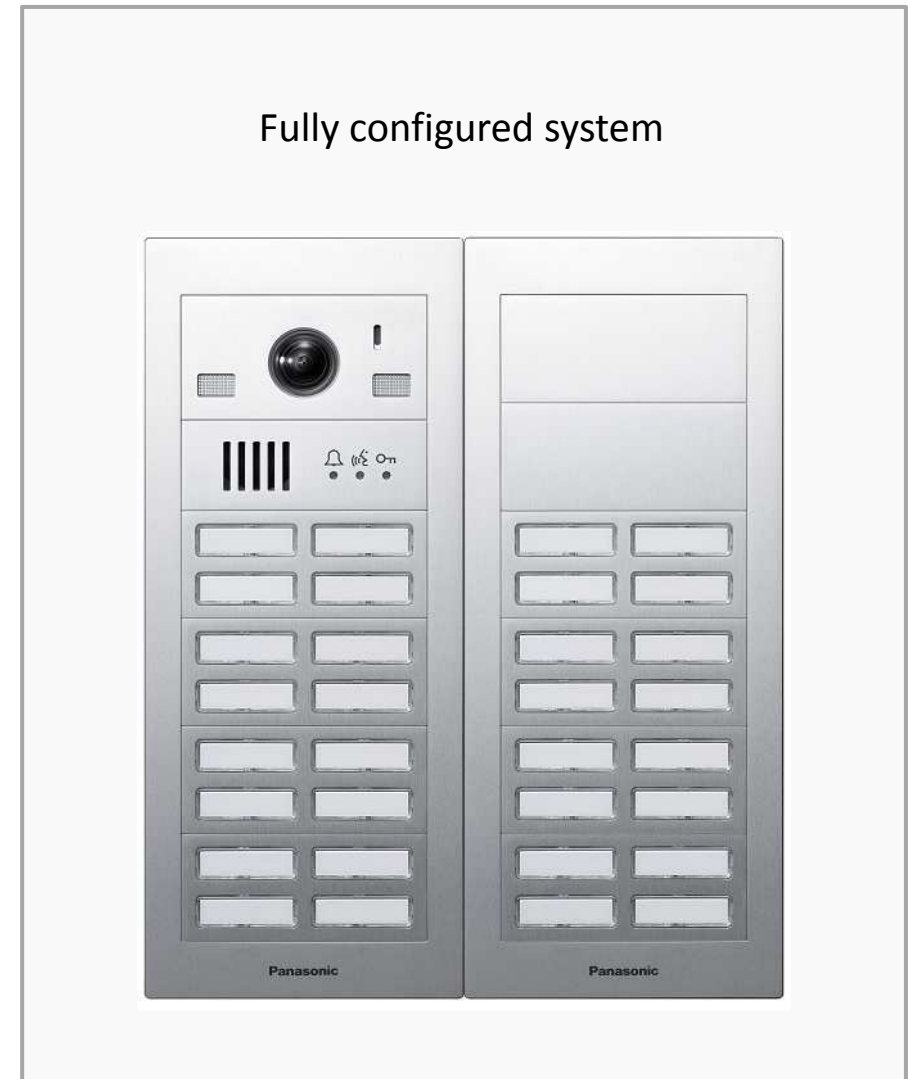
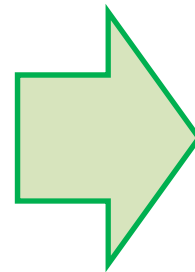
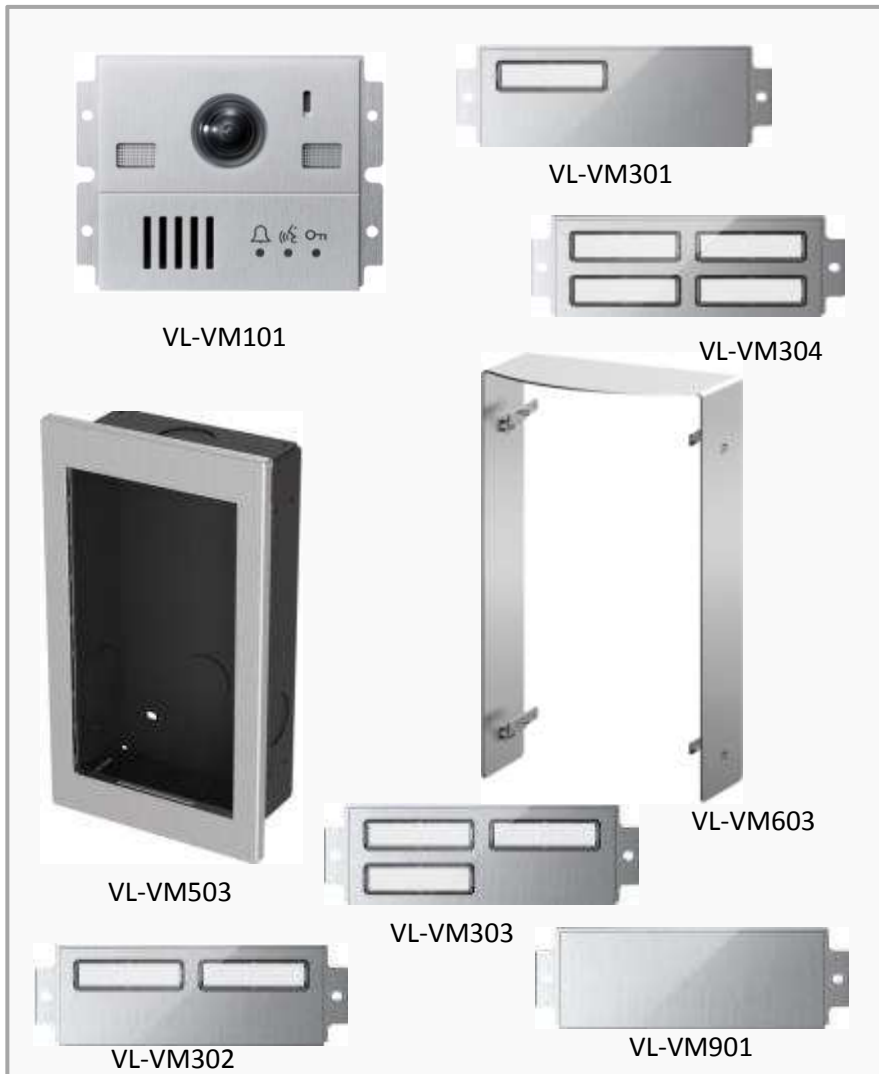
Big buttons combined with
front accessible name plates



Panasonic

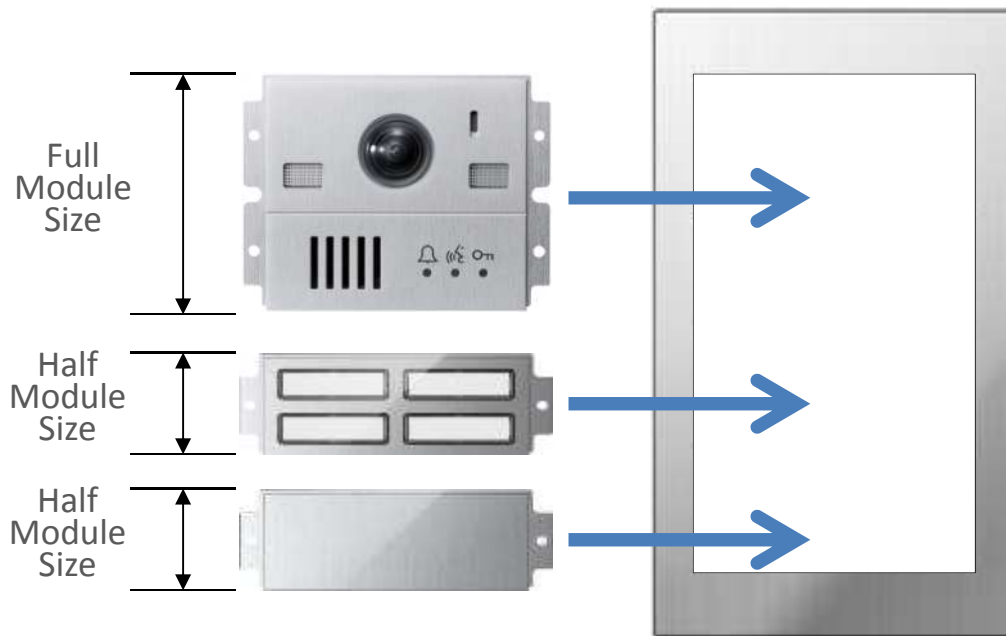
2-3. Customization with Each Module -1

It is possible to select according to the customer requirement.



2-4. Customization with Each Module -2

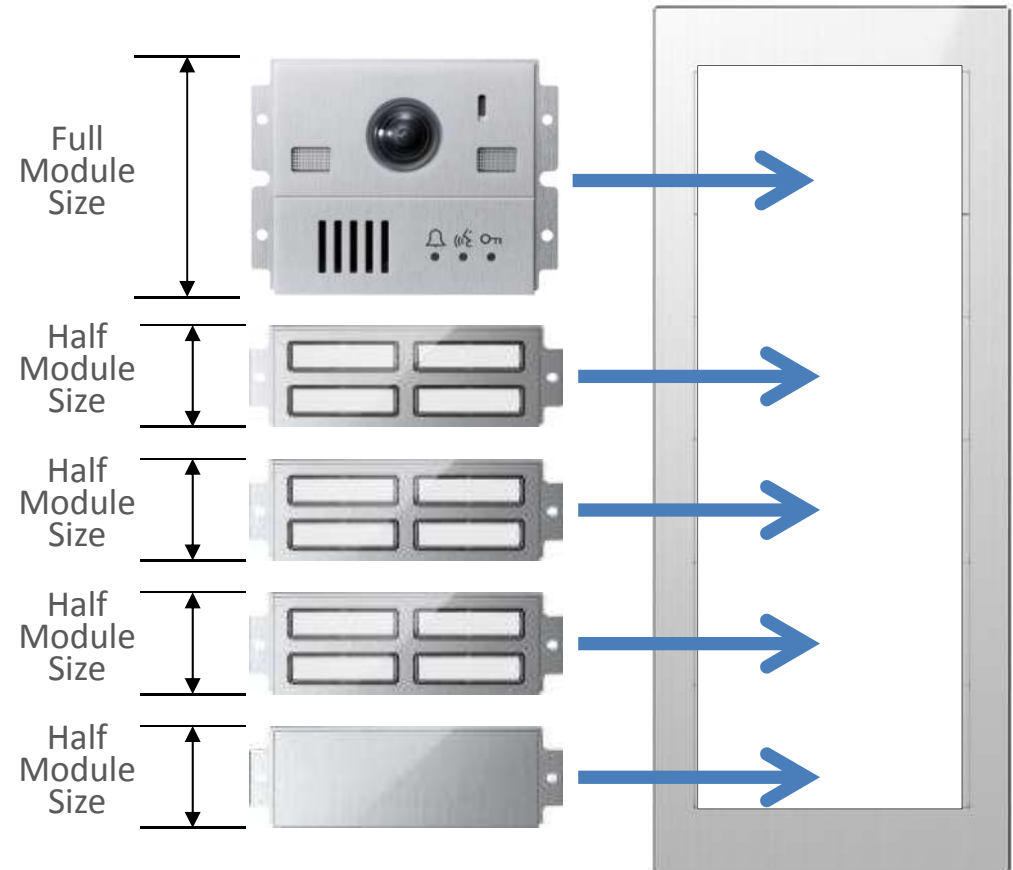
Small size Back Box (VM602)



Small size Back Box configuration example

- Camera Module (VM101/full) : 1 pc.
- 4-button module (VM304/half) : 1 pcs.
- Blank Panel (VM901/half) : 1 pc.

Large size Back Box (VM603)

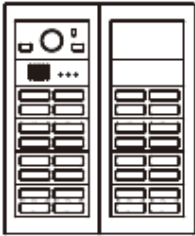










Large size Back Box configuration example

- Camera Module (VM101/full) : 1 pc.
- 4-button module (VM304/half) : 3 pcs.
- Blank Panel (VM901/half) : 1 pc

2-5. Customization with Each Module -3

It is possible to select according to the customer requirement.

									
(Unit: pcs)									
Number of call buttons	32	28	16	13	24	16	8	7	6
VL-VM101	1	1	1	1	1	1	1	1	1
VL-VM301				1					
VL-VM302									1
VL-VM303								1	
VL-VM304	8	7	4	3	6	4	2	1	1
VL-VM901	2	3				2			
VL-VM502/VM503	VL-VM503: (2) *1		VL-VM503: (1) *1		VL-VM502: (2) *1		VL-VM502: (1) *1		
VL-VM602/VM603	VL-VM603: 2		VL-VM603: 1		VL-VM602: 2		VL-VM602: 1		
VL-VM801	1	1			1	1			

*1 When the flush mount installation method is used, a Surface Mount Cover cannot be installed.

2-6. Easy Accessible Name Plate

【Back Ground】

Building managers can not change the name plate by themselves.



■ Factor

To change the name plates, have to remove the panel and access to rear side.

Manager

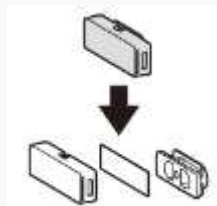
Not comfortable to ask installers just to change name plates.

Installer

Just changing name plates does not generate profit.

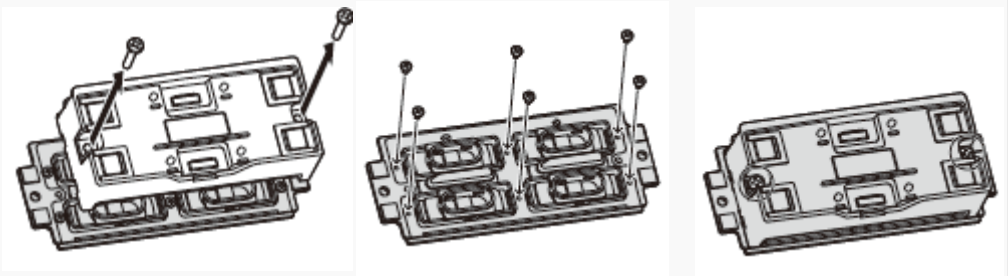
【Change the name plate】

Adopt the front accessible name plates



【Prohibit to remove】

Using the screw, it prohibit to remove the name plate.

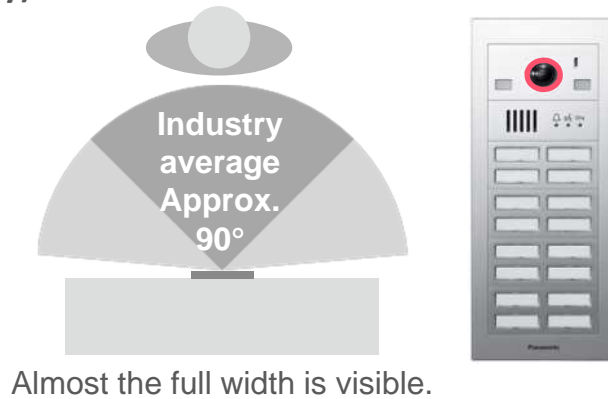


2-7. Camera Angle

The wide-angle camera gives a wide view of the front porch area.

■ Left/right angle comparison image
(Horizontally)

Approx. 170°



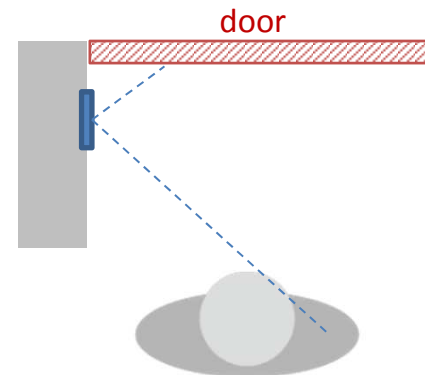
■ Upper/lower angle comparison image
(Vertically)

Approx. 110°

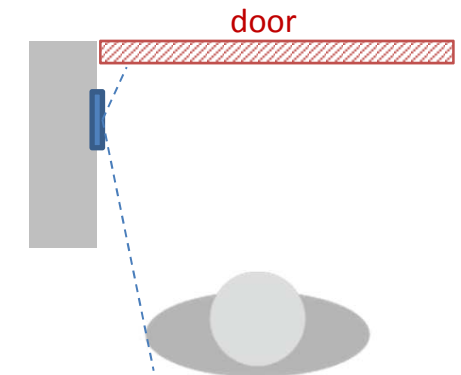


If lobby station installed vertically toward the door, it is difficult to catch the visitor by standard angle camera.

■ Standard angle



■ Wide angle

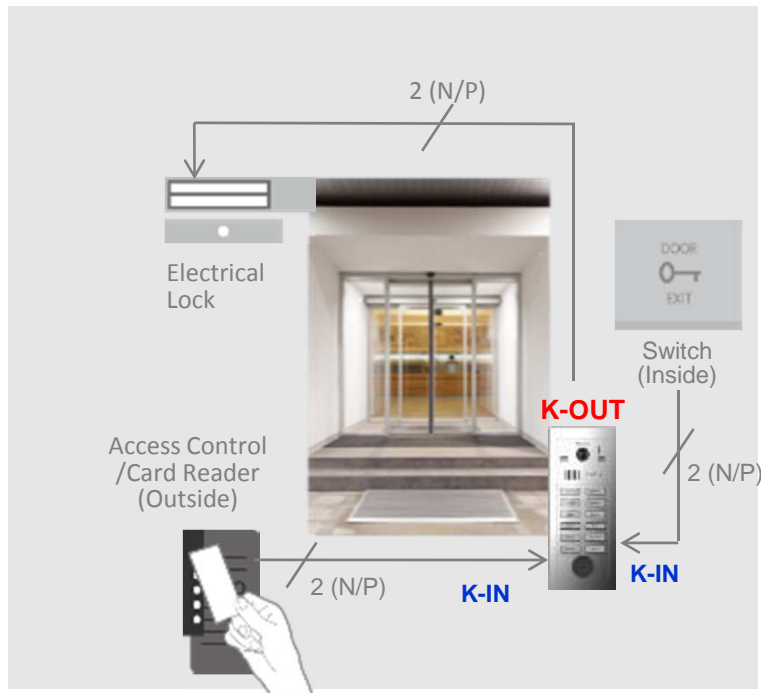


The wide image taken with the wide-angle lens enables easy, complete confirmation.

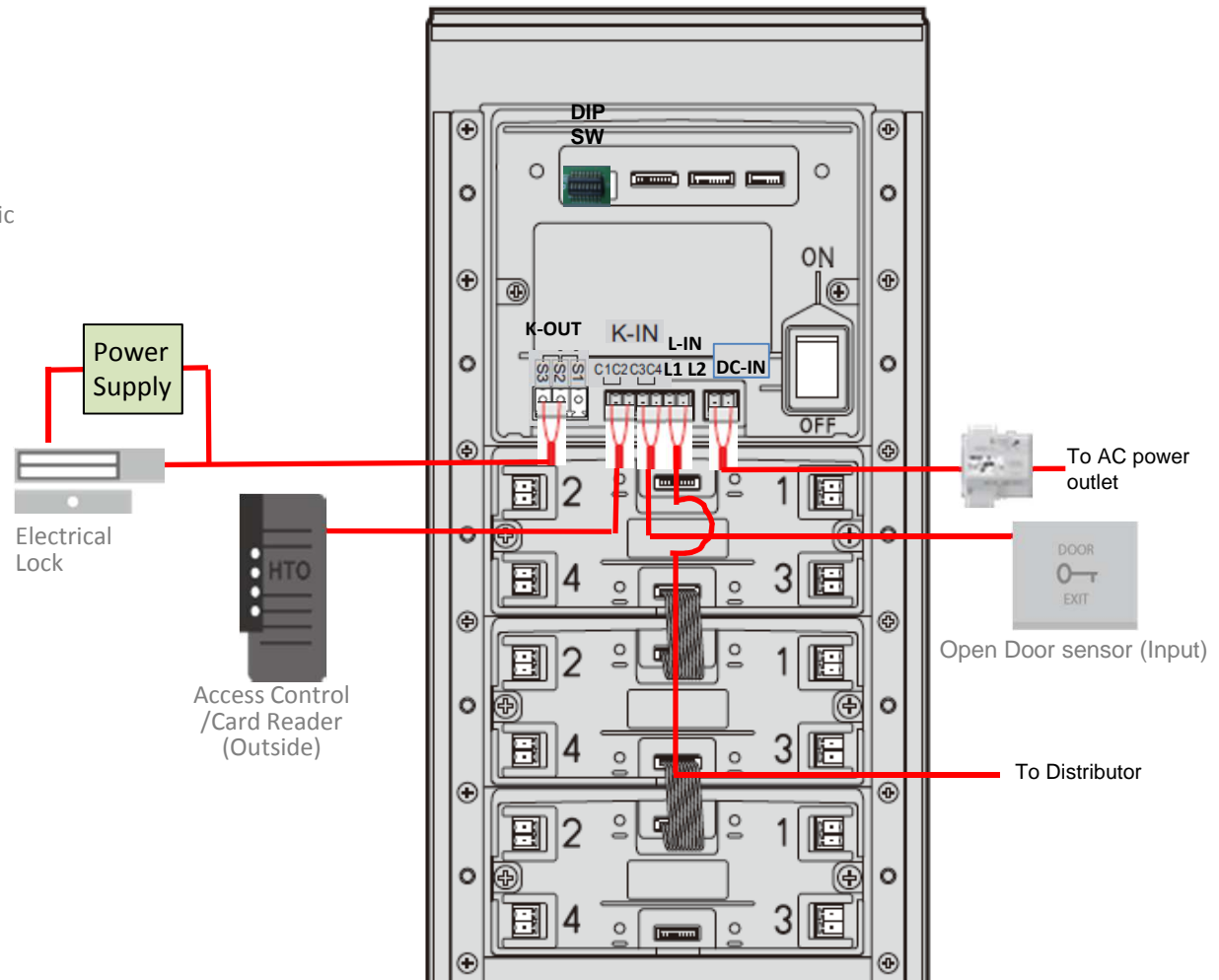
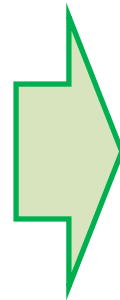
2-8. E-lock & Access Control

■ Wiring schematic (VL-VM101)

(Access Control, E-lock & Lobby Station)



Wiring Schematic



K-OUT

S1 and S2: Normally-Open (Active Close)

S2 and S3: Normally-Close (Active Open)

K-IN

C1 and C2: Access Controller(input)

C3 and C4: Open Door sensor(input)

It is possible to integrate with Access Control and E-lock.

3. Monitor Line Up

3-1. VL-MWD501 Series

- Answer visitors in anywhere at home by wireless sub monitor.
- Safety and convenient by picture recording function into SD card.

Sales point

1. DECT wireless sub monitor

- Answer visitors in anywhere at home
- Support additional sub monitors up to 6

2. Super wide angle camera

- Wide view with horizontal 170 degree
- Easy and smooth zoom

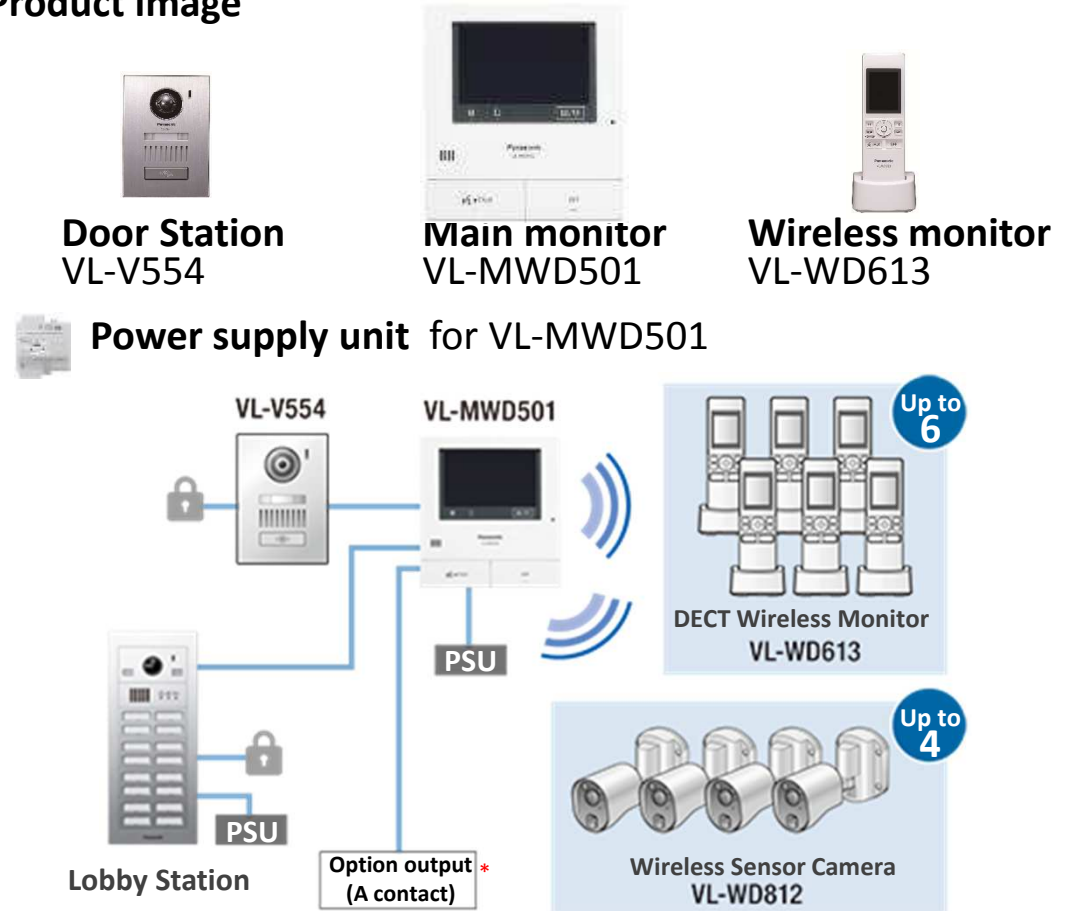
3. Picture recording function into SD card

- Much memory capacity of SD card
- Auto picture recording even in your absence

Other feature

- Clear view LED light in night time
- Support E-lock connection from door camera
- Support extend of wireless range by DECT repeater

Product image



PSU : Power Supply Unit

* Devices that can be connected to the option output: doorbell light, door chime, rotating light, etc.

3-2. VL-MVN511 Series

■ Enhance our product line-up with unique intercom system with smart phone connect

Sales point

1. Smart phone connectivity

- Easy setup
- Easy install with Wi-Fi connection.

2. Picture recording function

- Up to 50 pictures recordable

3. LED Lighting Door station

- Can see visitors in color even at night by LED is turned on.

Other feature

- Option Connectivity
- Door station
- Lobby Door station
- Repeater
- Digital PBX

Product image



Door Station
VL-V555



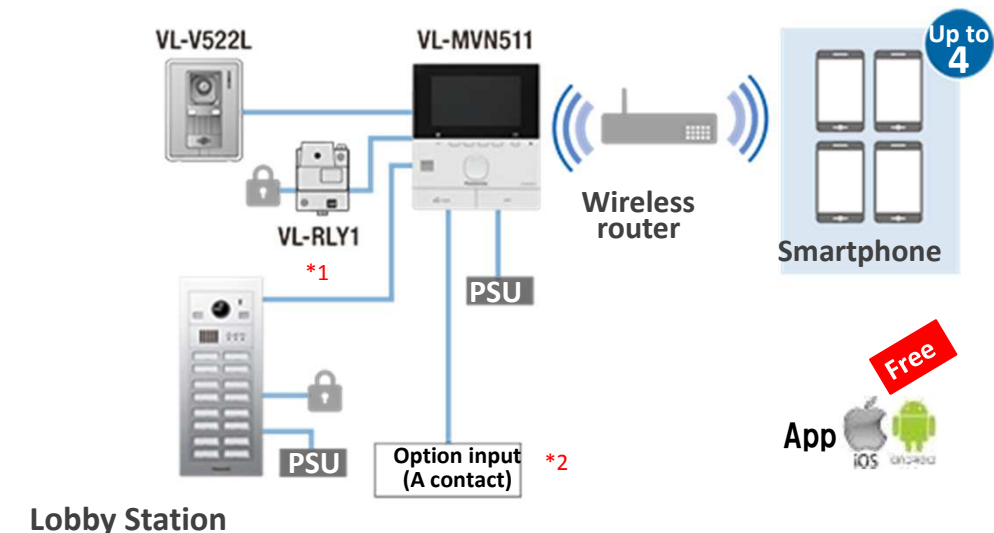
Main Monitor
VL-MVN511



Power supply unit for VL-MWD511



Relay unit VL-RLY1



PSU : Power Supply Unit

*1 Relay Box (VL-RLY1) is NOT included with a single unit Monitor (VL-MVN511).

*2 Option inputs can be used to connect 2 sensors.

3-5. VL-MV10EX1/EX2(French Model)

- Price conscious monitor which reduce the system price.
- Bus power supply makes installation easier.

Sales point

1. Simple feature and affordable price

- Contribute to reduce system price.

2. No external Power Supply Unit

- Power is provided by the bus line or a lobby station (Easy to install)

3. Hearing aid connectivity (only for MV10EX2)

- Comply with the French regulation

Other feature

- Status indicators (LED)
- 3.5 inch LCD display
- Door Bell (3rd Party)

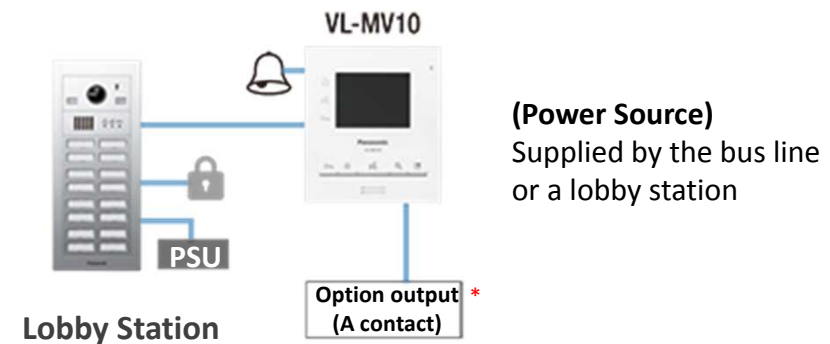
Product image



Main Monitor
VL-MV10EX1






Main Monitor
VL-MV10EX2
(French Model)



PSU : Power Supply Unit

* Devices that can be connected to the option output: doorbell light, door chime, rotating light, etc.

3-4. Function Table

	 VL-MWD501	 VL-MVN511	 VL-MV10EX1/EX2
Power source	Power supply unit VL-PS240/or 241	Power supply unit VL-PS240/or 241	Bus power (No PSU required.)
Display	5-inch WVGA wide colour / Touch panel	5-inch WQVGA wide colour	3.5-inch colour
Frequency range	1.88 GHz – 1.90 GHz	Wi-Fi: (IEEE 802.11 b/g/n2.4 GHz)	-
Installation method	Wall mount (mounting bracket supplied)	Wall mount (mounting bracket supplied)	Wall mount (mounting bracket supplied)
Picture recording	Y (Up to 400 images) Up to 50 visitors 8 shots per visitor	Y (Up to 400 images) Up to 50 visitors 8 shots per visitor	-
Voice changer	Y	Y	-
Wireless monitor	Y (Up to 6)	-	-
Repeater	Y (Up to 2)	-	-
Smartphone connect	-	Y (Up to 4)	-
E-mail notification	-	Y (Up to 4) *1	-
Wireless sensor camera	Y (Up to 4) VL-WD812	-	-
Intercom call	Y *2	-	-
Door unit	Door Station VL-V554, VL-V554U VL-V555, VL-V522L	Door Station VL-V554, VL-V554U VL-V555, VL-V522L	Doorbell (3 rd Party)
Display language	EN, FR, DE, ES, IT, NL	EN, FR, DE, ES, IT, NL	Nil (pictogram)

*1 The main monitor must be connected to a Wi-Fi router that is connected to the Internet in order to use email feature.

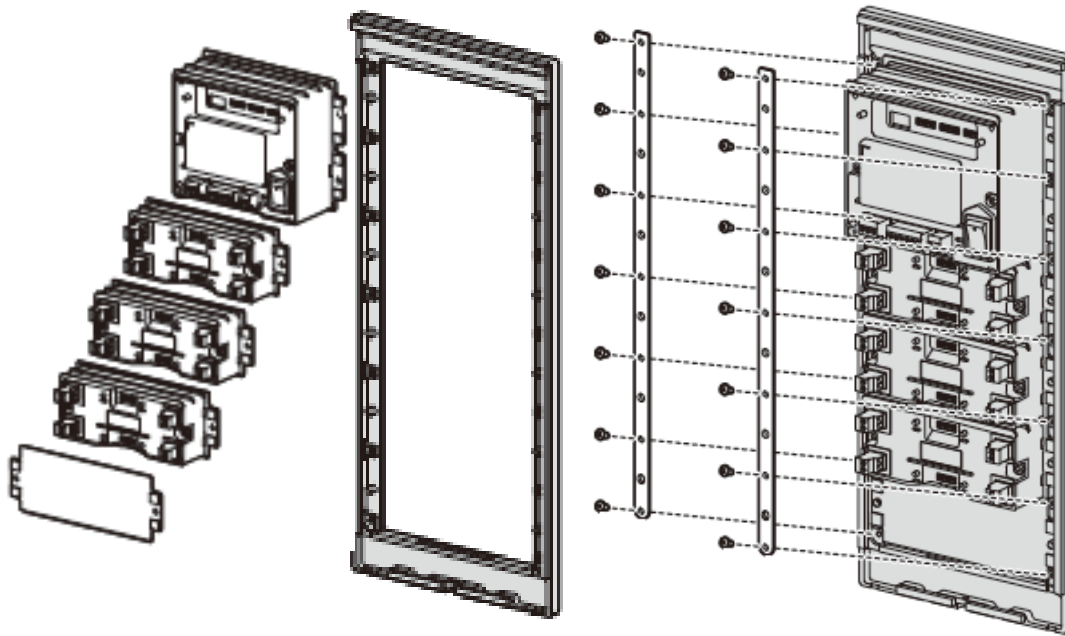
*2 Multiple wireless monitors are required.

4. Installation

4-1. Lobby Station Assembly-1

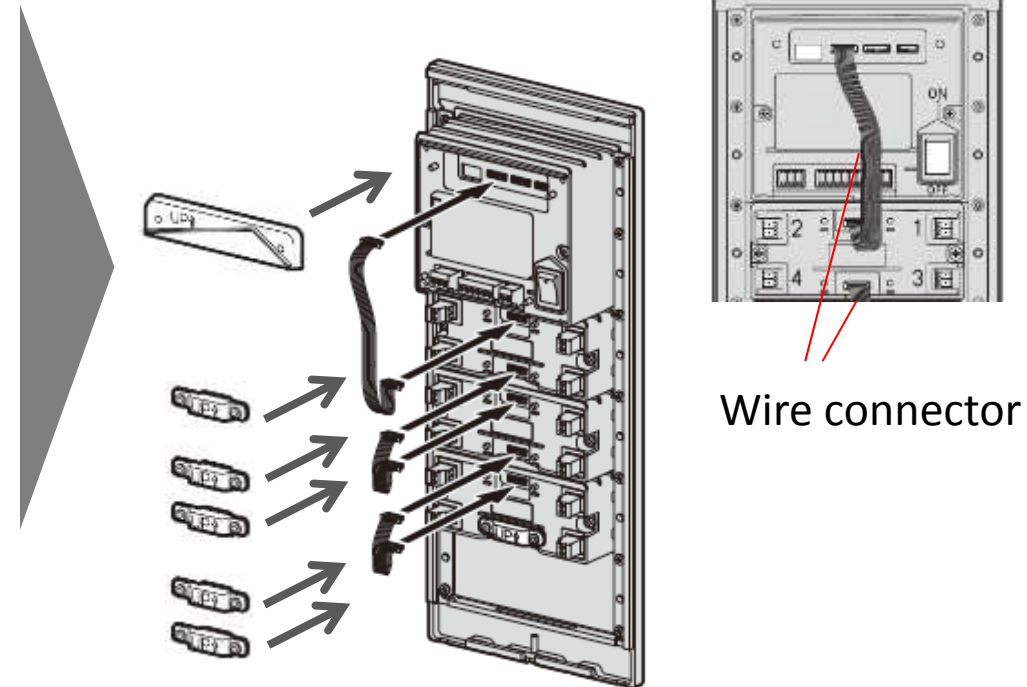
Step-1

Attach the every modules to the frame.



Step-2

Connect each modules by wire connector.
Put the module cable cover on each.



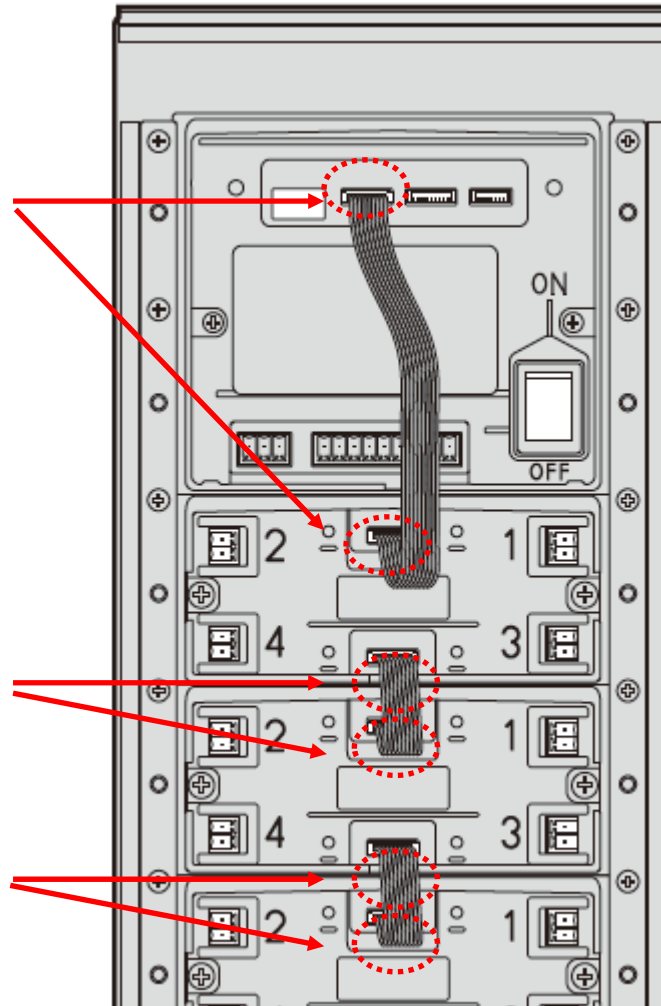
*Need to attach upper side module first

4-2. Lobby Station Assembly-2

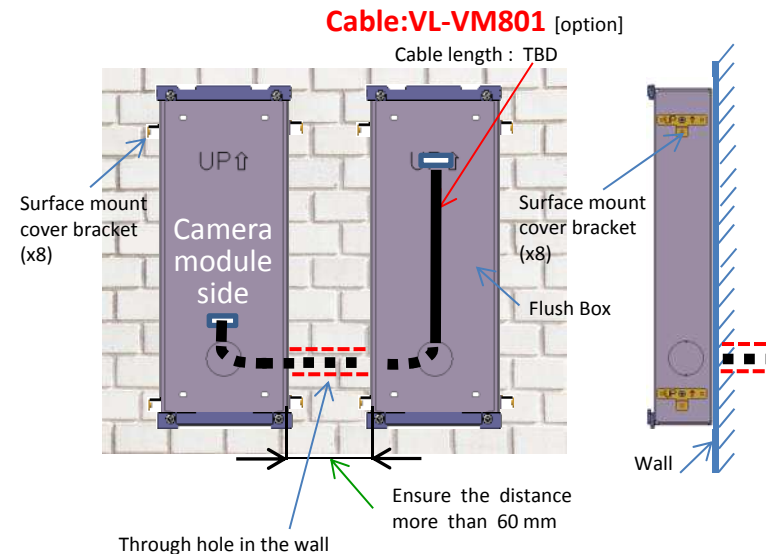
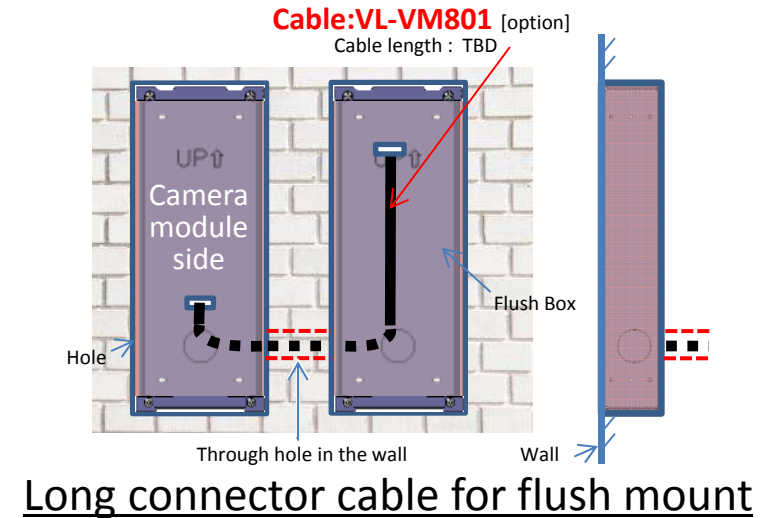
Detail for connector cable

1. Connect camera module with 1st button module.
2. Connect 1st button module with 2nd button module.
3. Connect 2nd button module with 3rd button module.

Repeat this procedure to last button module.











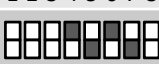
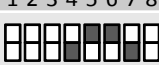
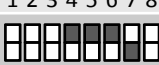
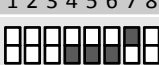
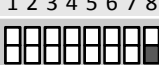
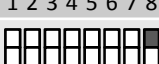


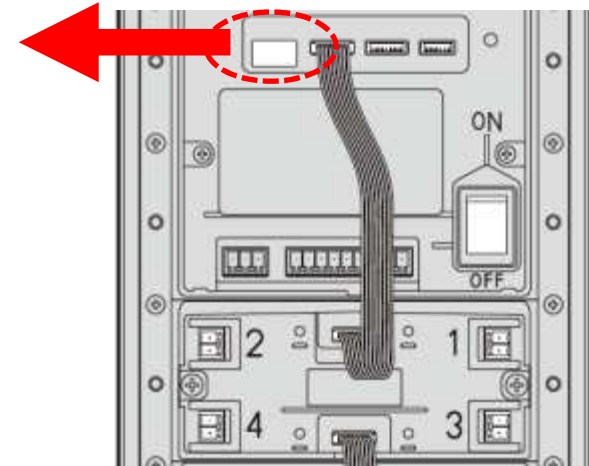
Multi panel cabling



****Surface mount cover is required.**

4-3. Setting for Lobby Station

	Setting	DIP switch	
Wiring Method	Star shape wiring	ON  OFF 1 2 3 4 5 6 7 8	bit1 : 0
	Bus wiring	ON  OFF 1 2 3 4 5 6 7 8	bit1 : 1
Key Backlit in Standby-Mode	Turns on in dark condition	ON  OFF 1 2 3 4 5 6 7 8	bit 2-3 : 00
	Always On	ON  OFF 1 2 3 4 5 6 7 8	bit 2-3 : 10
	Always Off	ON  OFF 1 2 3 4 5 6 7 8	bit 2-3 : 01
Audio guidance Language (Door Opening)	No Audio Guidance	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 0000
	English	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 1000
	German	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 0100
	French	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 1100
	Spanish	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 0010
	Italian	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 1010
	Dutch	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 0110
	Arabic	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 1110
	Persian	ON  OFF 1 2 3 4 5 6 7 8	bit 4-7 : 0001
Monitoring (from R/M)	Enable Monitoring	ON  OFF 1 2 3 4 5 6 7 8	bit8 : 0
	Disable Monitoring	ON  OFF 1 2 3 4 5 6 7 8	bit8 : 1

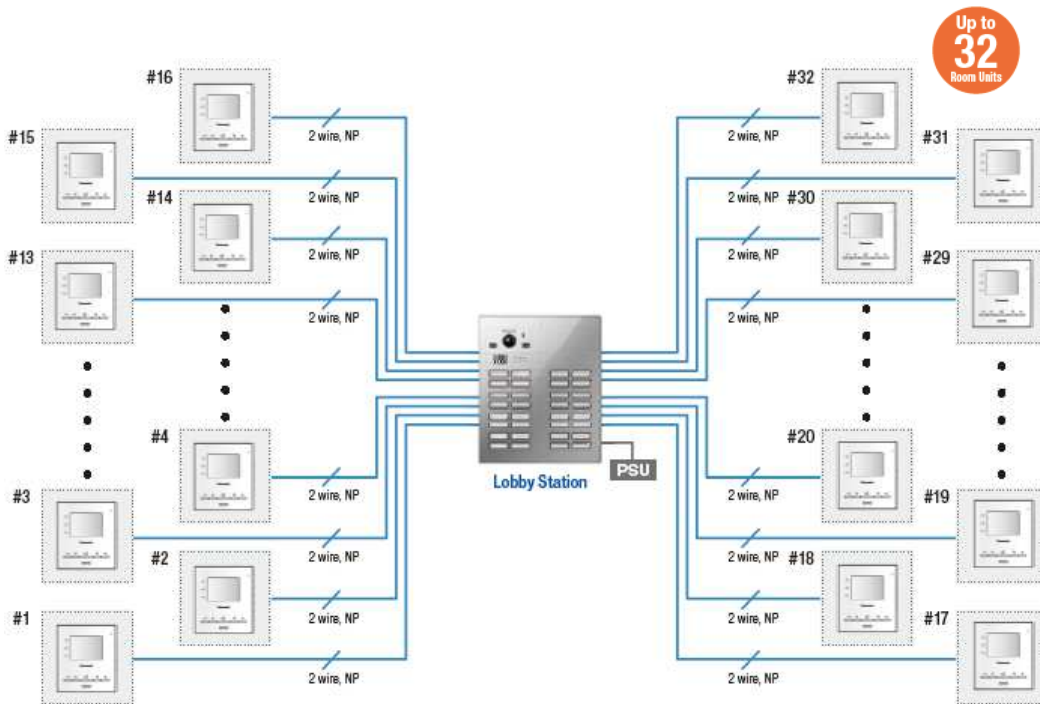


**If the extension box (V703) will be applied, set this switch to OFF to disable monitoring.

4-4. System Overview

2 wiring style are available.

Star Shape Wiring

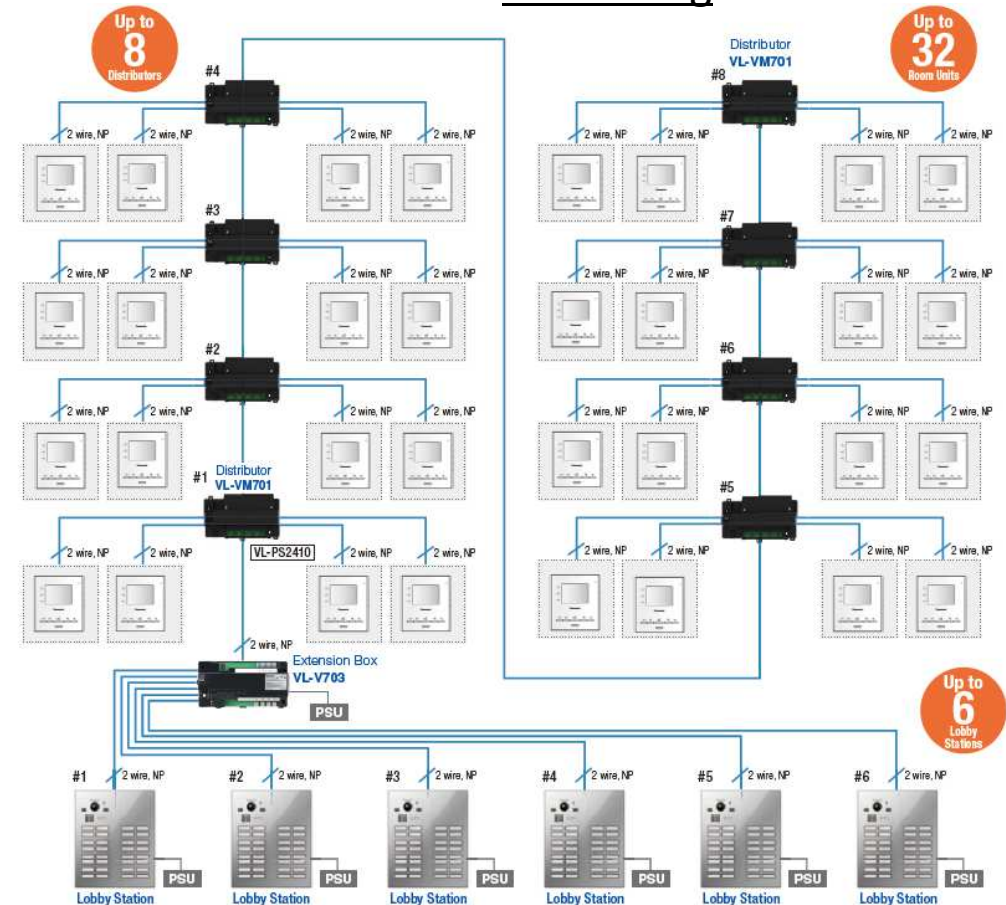


- Suitable for small size apartment
- Easy to replace from the door chime equipment

Wiring distance

Lobby Station – Room Monitor ➔ Max.100m (φ0.65) / Max.200m (φ1.20)

Bus Wiring



- Suitable for medium size apartment
- Easy to utilize the riser to wire the bus

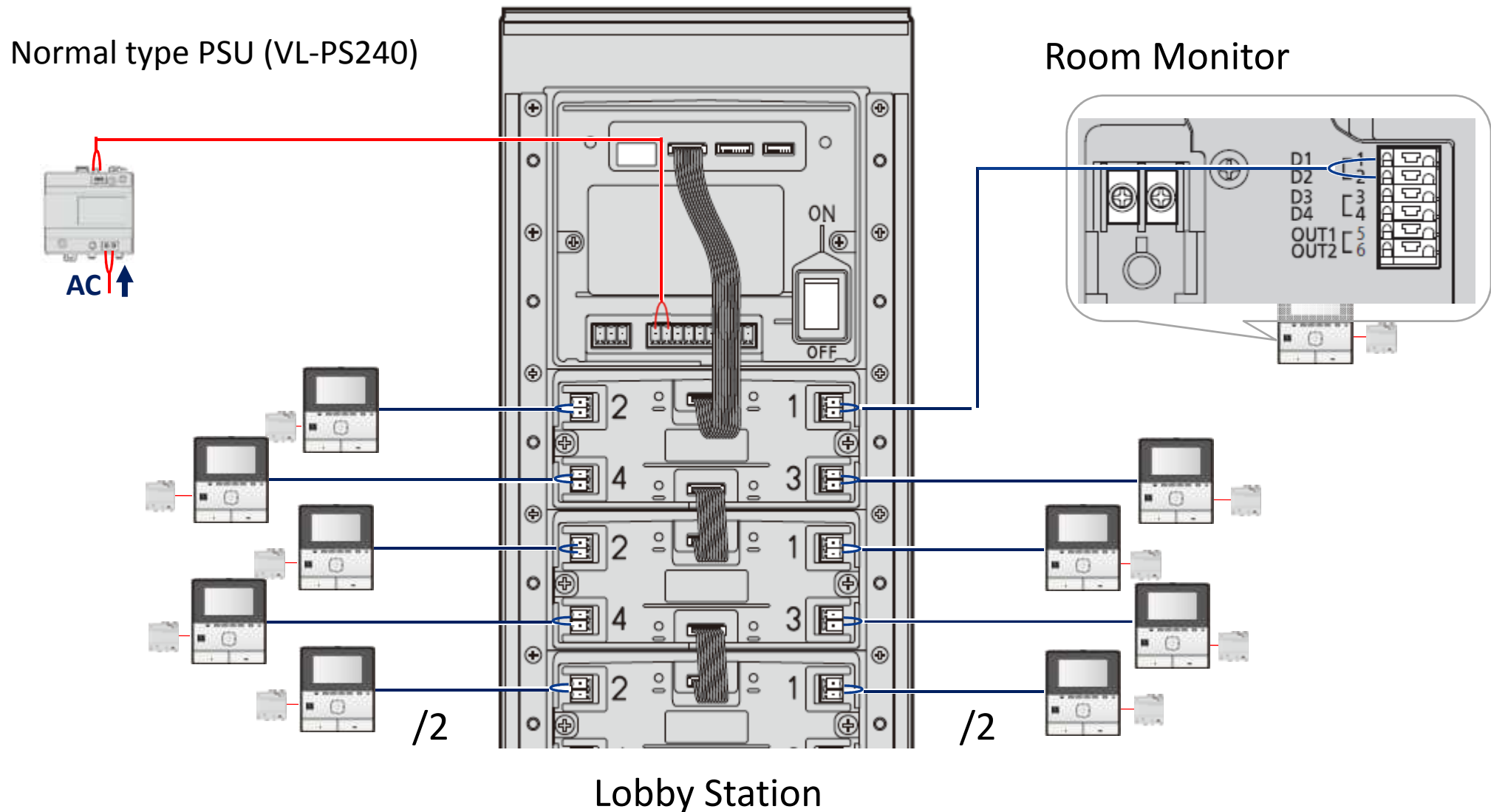
Wiring distance

Lobby Station – Distributor ➔ Max.100m (φ0.65) / Max.200m (φ1.20)

Distributor – Room Monitor ➔ Max.100m (φ0.65) / Max.200m (φ1.20)

Star Shape Wiring

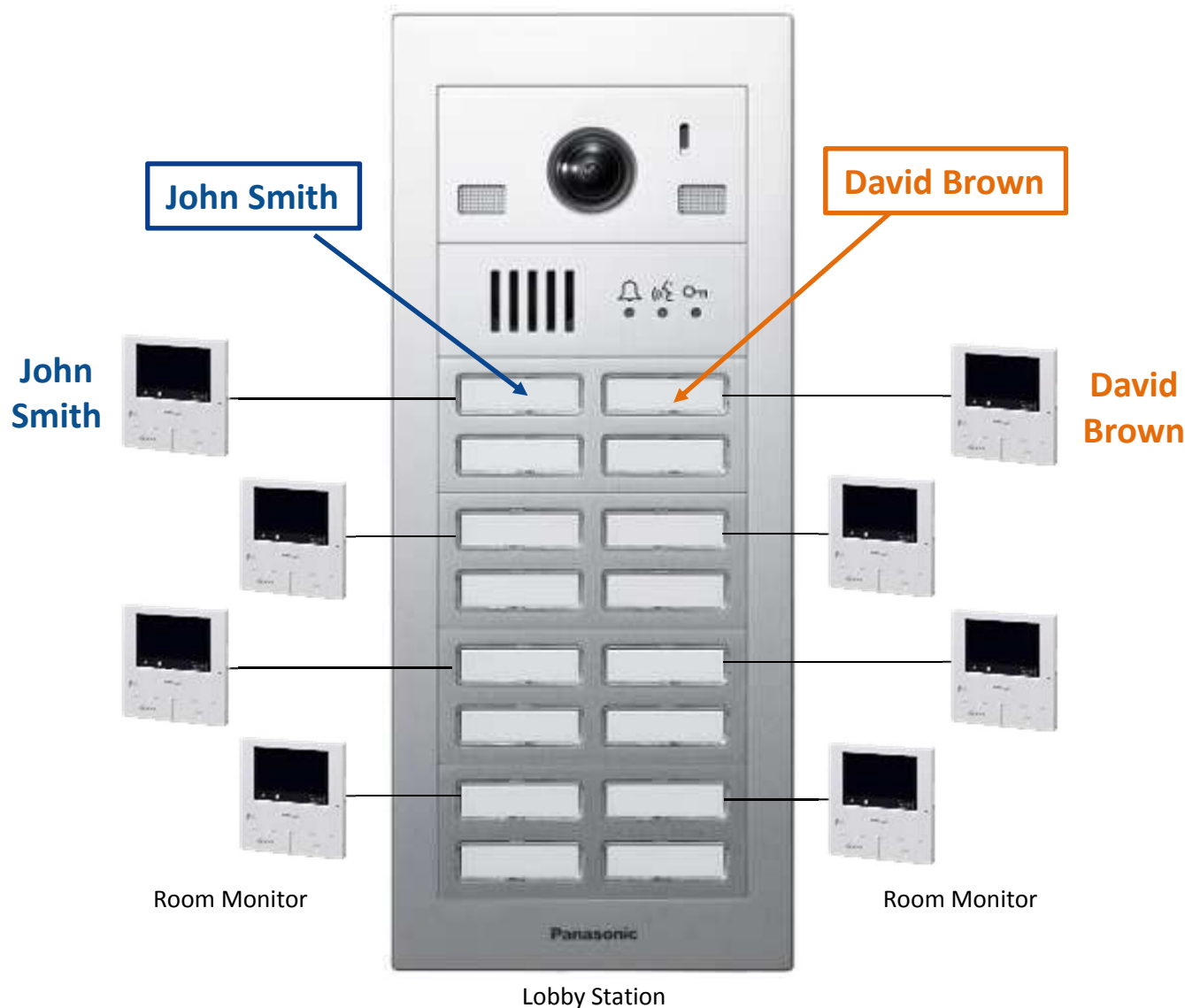
4-5. Wiring & Power Supply Unit (Star Shape Wiring)



Room monitor is connected with button module.

4-6. Room No. Setting (Star Shape Wiring)

Star shape wiring











Each room monitor are connected to the button directly.

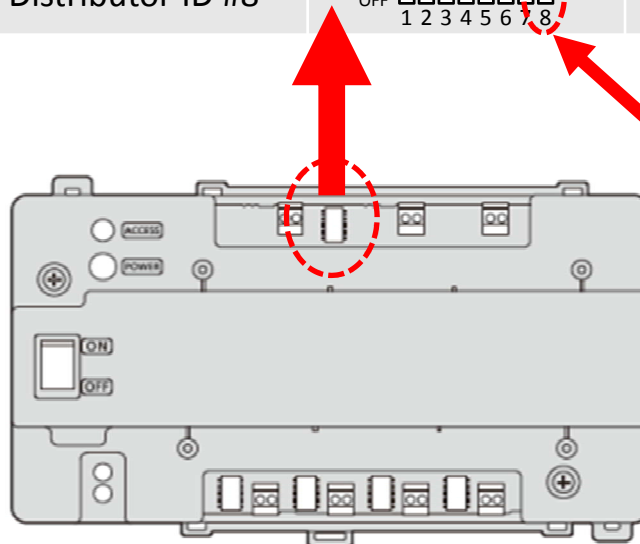


No setup required.

Bus Wiring

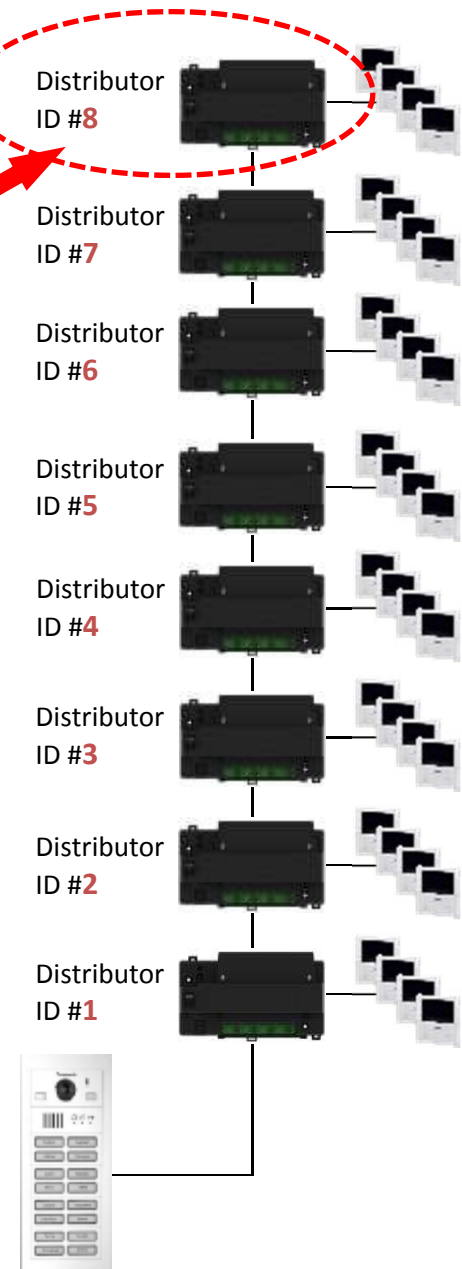
4-7. Setting for Distributor ID (Bus-wiring)

	Setting	DIP switch	
Distributor ID	Distributor ID #1	ON OFF  1 2 3 4 5 6 7 8	bit1 : 1
	Distributor ID #2	ON OFF  1 2 3 4 5 6 7 8	bit2 : 1
	Distributor ID #3	ON OFF  1 2 3 4 5 6 7 8	bit1&2 : 1
	Distributor ID #4	ON OFF  1 2 3 4 5 6 7 8	bit3 : 1
	Distributor ID #5	ON OFF  1 2 3 4 5 6 7 8	bit1&3 : 1
	Distributor ID #6	ON OFF  1 2 3 4 5 6 7 8	bit2&3 : 1
	Distributor ID #7	ON OFF  1 2 3 4 5 6 7 8	bit1&2&3 : 1
	Distributor ID #8	ON OFF  1 2 3 4 5 6 7 8	bit4&8 : 1



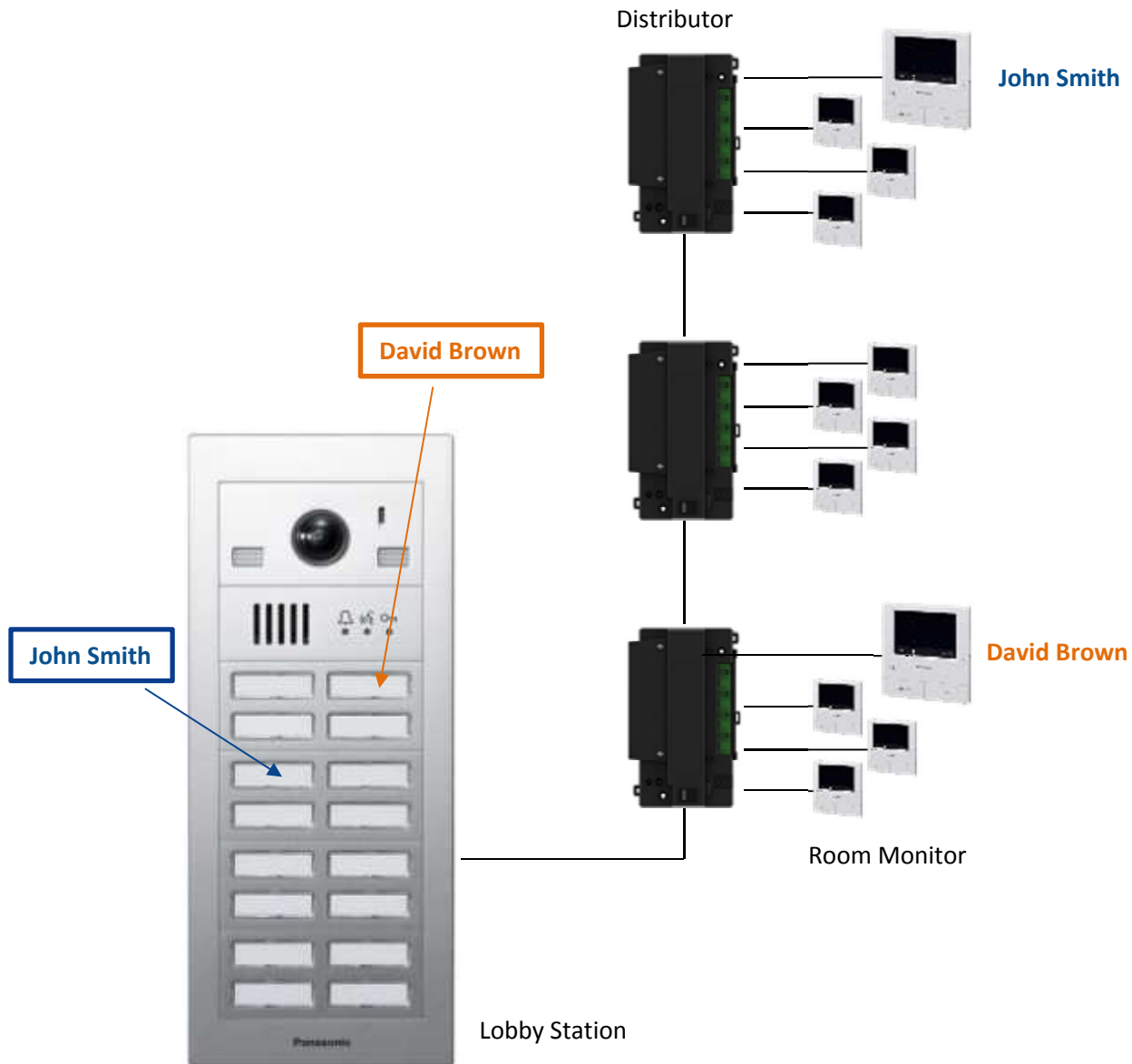
Note)
bit8 is termination SW
for the far end distributor.

Far end
Distributor



4-8. Room No. Setting -1 (Bus Wiring)

Bus wiring



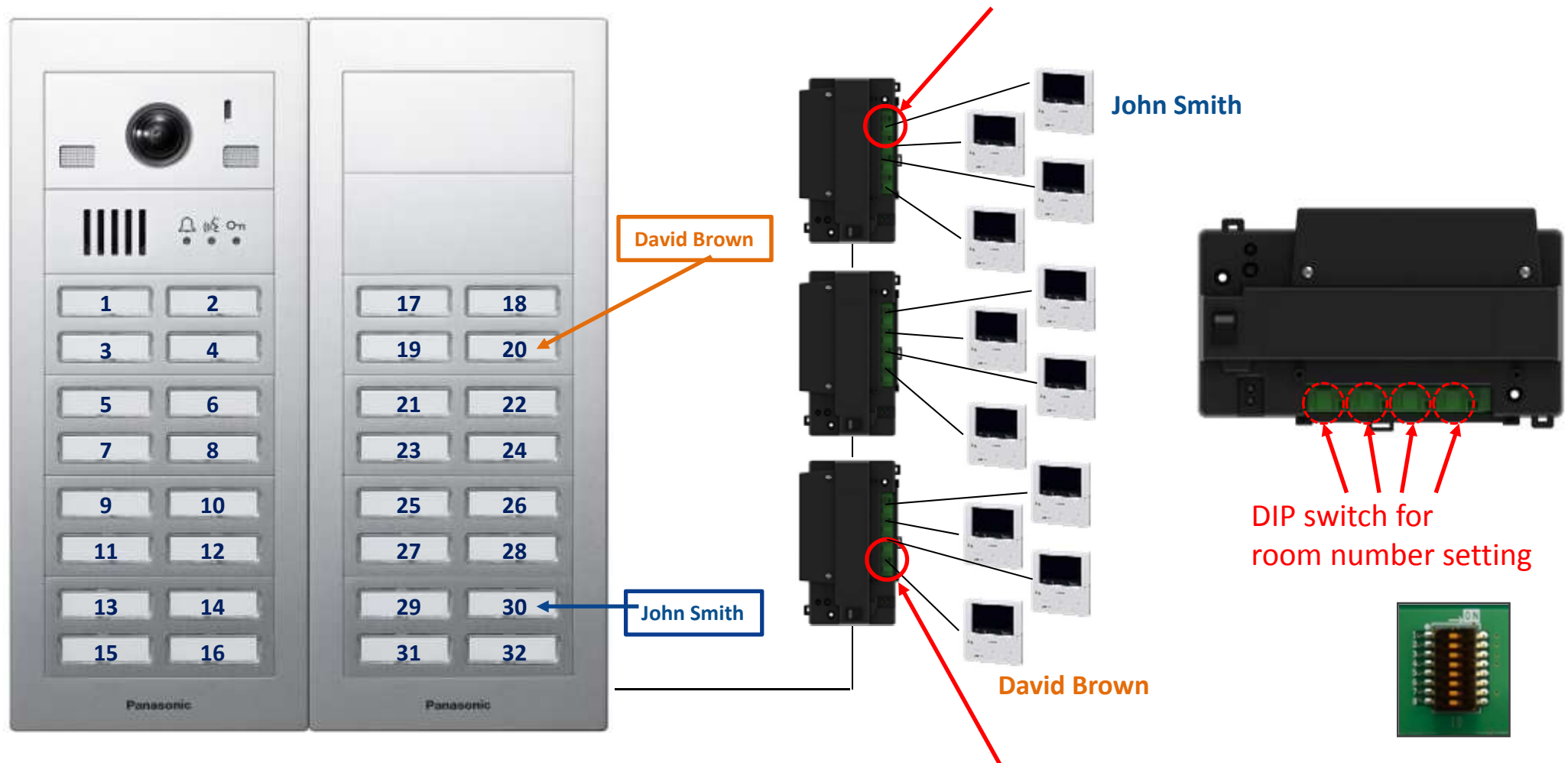
Each room monitor are connected to distributor randomly.



Need to set the room number on each distributor.

4-9. Room No. Setting -2 (Bus Wiring)

Set the DIP switch to "Room No.#30".



The button number is fixed on lobby station from 1 to 32.

Set the DIP switch to "Room No.#20".

4-10. Room No. Setting -3 (Bus Wiring)

	Setting	DIP switch	
Room Number Setting	Button #1	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 100000
	Button #2	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 010000
	Button #3	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 110000
	Button #4	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 001000
	Button #5	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 101000
	Button #6	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 011000
	Button #7	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 111000
	Button #8	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 000100
	Button #9	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 100100
	Button #10	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 010100
	Button #11	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 110100
	Button #12	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 001100
	Button #13	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 101100
	Button #14	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 011100
	Button #15	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 111100
	Button #16	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 000010

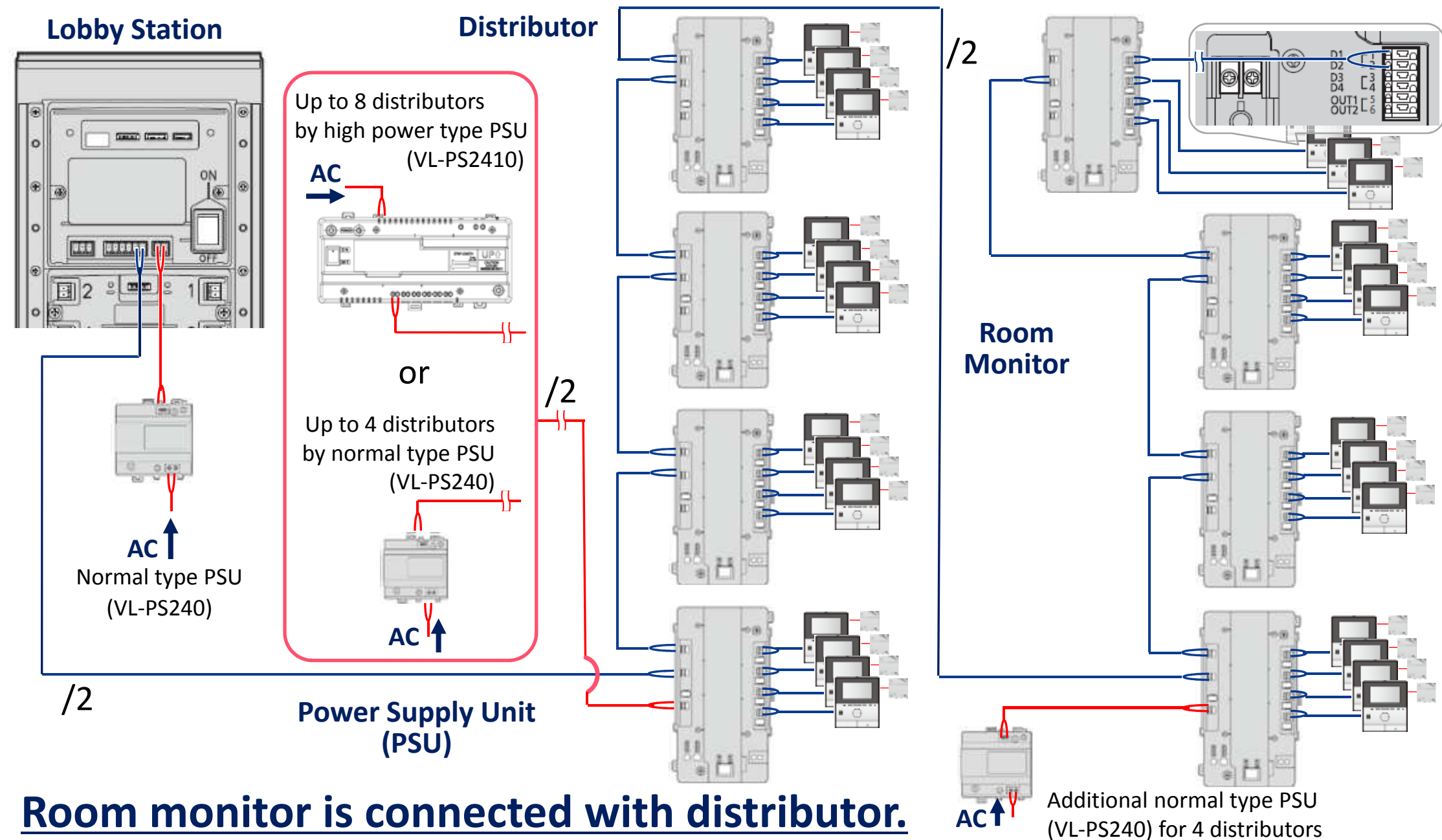


4-11. Room No. Setting -4 (Bus Wiring)

	Setting	DIP switch	
Room Number Setting	Button #17	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 100010
	Button #18	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 010010
	Button #19	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 110010
	Button #20	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 001010
	Button #21	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 101010
	Button #22	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 011010
	Button #23	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 111010
	Button #24	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 000110
	Button #25	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 100110
	Button #26	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 010110
	Button #27	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 110110
	Button #28	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 001110
	Button #29	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 101110
	Button #30	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 011110
	Button #31	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 111110
	Button #32	ON <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> 1 2 3 4 5 6 7 8	bit1-6 : 000001



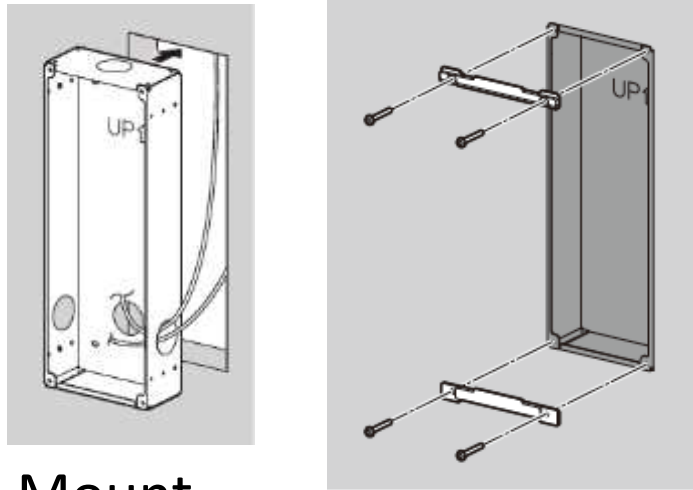
4-12. Wiring & Power Supply Unit (Bus Wiring)



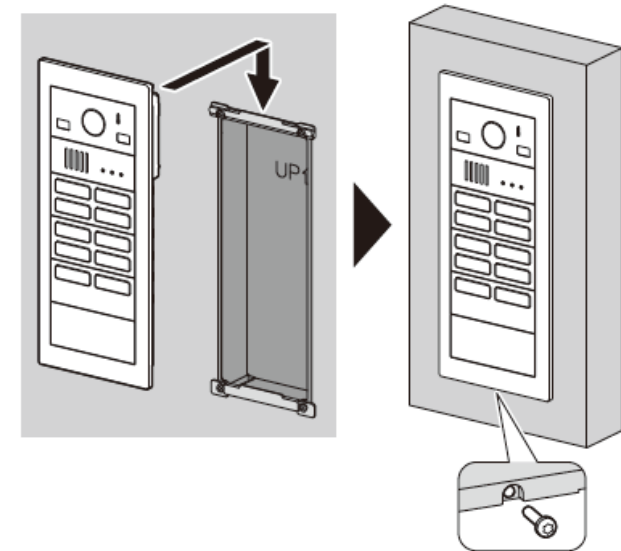
4-13. Install Lobby Station

Flush Mount

(1) Fix the mount box into the wall

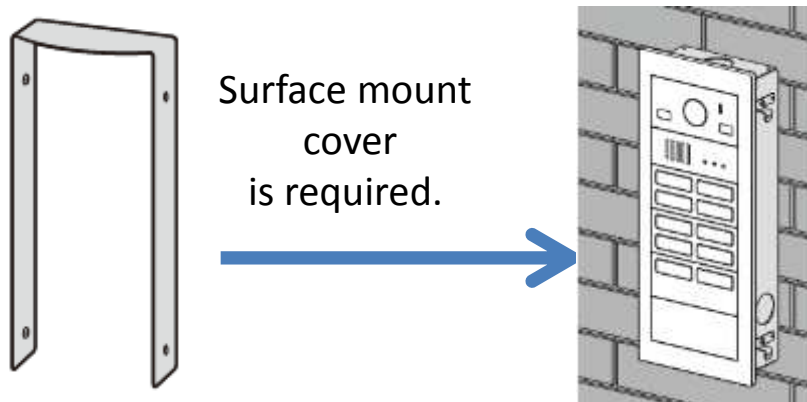


(2) Install the lobby station

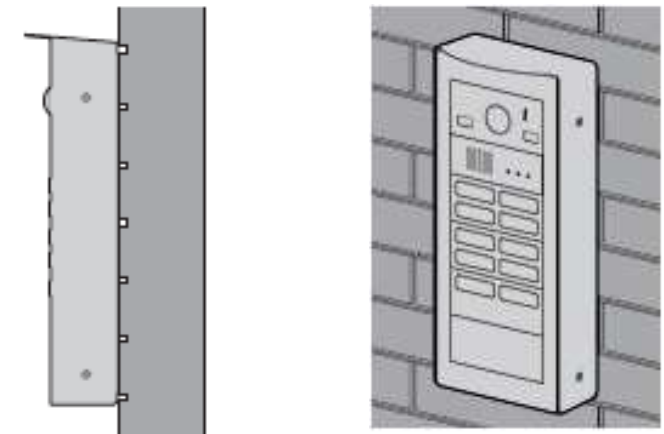


Surface Mount

(1) Fix the mount box onto the wall

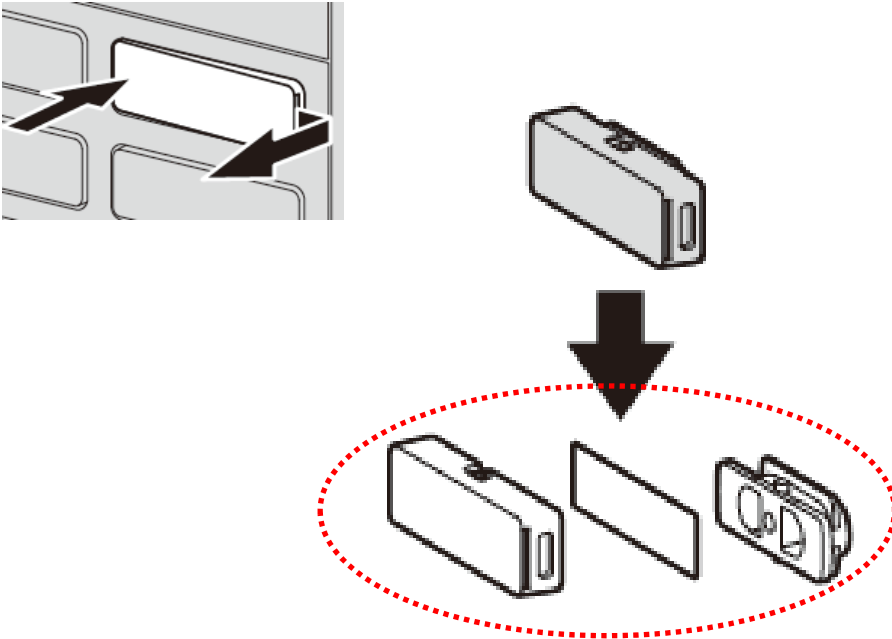


(2) Install the lobby station



4-14. Bundled Items

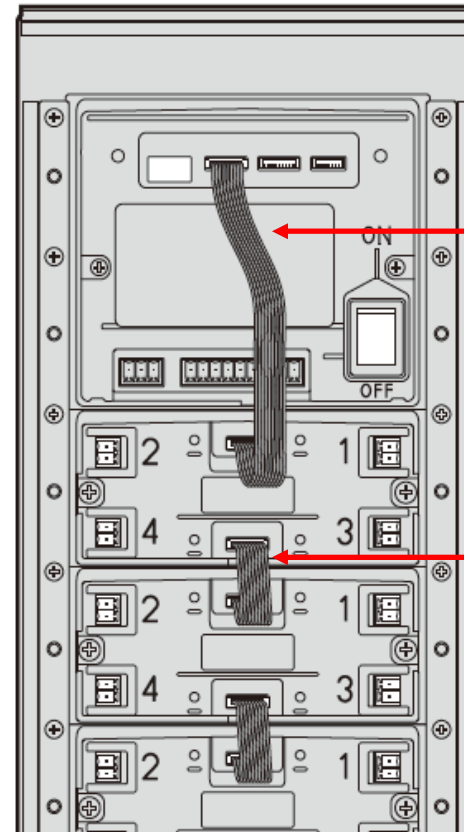
Spare Button



Spare buttons are bundled to button module.

Button qty	Spare qty
1 Button module	1 pc
2 Button module	
3 Button module	2 pcs
4 Button module	

Connector Cable



Middle length cable
is bundled to
camera module.

Short length cable
is bundled to
button module.

5. Appendix

- The actual product may vary slightly from photograph.
- All pictures of the LCD display are simulated.
- Weights and dimensions are approximate.
- Design and Specifications are subject to change without notice.
- These products may be subject to export control regulations.