Specifications
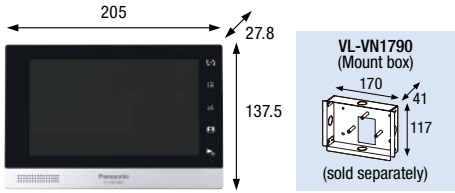
Model number and name	VL-VN1500 (Door Station)	VL-MN1000 (Room Monitor)
Dimensions (Unit: mm)	100 / 28.5 / 141	205 / 27.8 / 137.5 — VL-VN1790 (Mount box) 170 / 41 / 117 (sold separately)
Power source	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240*1) 24 V DC, 0.6 A	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240*1) 24 V DC, 0.6 A
Power consumption	PoE: Standby: 2.5 W / Operating: 5.1 W VL-PS240: Standby: 2.6 W / Operating: 6.3 W	PoE: Standby: 1.9 W / Operating: 6.3 W VL-PS240: Standby: 2.1 W / Operating: 6.2 W
Dimensions (H x W x D) (Excluding protruding sections)	141 x 100 x 28.5 mm	137.5 x 205 x 27.8 mm
Weight	250 g	550 g
Operating environment	Ambient temperature: Approx. -10 °C to +55 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	-	7-inch wide colour display with touch screen (800x480 pixels)
Display language	-	English, Arabic, French, Italian, German, Spanish, Dutch, Vietnamese and Indonesian
Talking method	Hands-free	Hands-free
Network interface	10BASE-T/100BASE-TX (Auto MDI/MDI-X)	10BASE-T/100BASE-TX (Auto MDI/MDI-X)
Network protocol	TCP/IP, UDP	TCP/IP, UDP
Wiring	UTP (cat.5e or higher)	UTP (cat.5e or higher)
Card reader (RFID)	13.56 MHz (ISO/IEC 14443 Type A (MIFARE))	-
Expanded interface	E-lock x 1 *Relay box VL-RLY1 is required (sold separately)	Sensor input x 5 (including emergency / urgency button)
Viewing angle	Horizontally: Approx. 113°, Vertically: Approx. 69°	-
Image sensor	1.3 M pixels CMOS sensor	-
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	-
Lighting method	White coloured LED lights	-
Video / Audio format	Video: H.264, Audio: G.711	Video: H.264, Audio: G.711
Recording	-	Internal memory (video with audio can be saved)
IP rating / IK rating	IP54*2 / -	-
Installation method	Surface mount (mounting base supplied)	Surface mount (mounting bracket supplied) or Flush mount (mount box VL-VN1790 sold separately)
External material	PC+ABS resin	PC+ABS resin
Supported functions	• Unlock individual doors via the RFID card (MIFARE) • Theft detection buzzer	• Monitoring through the IP camera • Emergency / Urgency call, Sensor, Door bell • Intercom calls between monitors (family or neighbours) • Calls to SIP Phones (guard station, reception, etc.) • Register up to 32 IP cameras per monitor • Register up to 18 SIP Phones per monitor

*1 VL-PS240 is sold separately. *2 Water resistance is only assured if the door station is installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.

Model number and name	VL-VN1800 (Control Box)	Options	
		VL-PS240 (Power Supply Unit)	VL-RLY1 (Relay Box)
Dimensions (Unit: mm)	430 / 88 / 340	100 / 54 / 116	78 / 38 / 92
Power source	100-240 V AC, 0.95-0.6 A, 50/60 Hz	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A	Supplied by the door station
Power consumption	Under 50 W	-	-
Dimensions (H x W x D) (Excluding protruding sections)	88 x 430 x 340 mm	116 x 100 x 54 mm	92 x 78 x 38 mm
Weight	4.5 kg	230 g	130 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Network interface	10BASE-T/100BASE-TX/1000BASE-T (Auto MDI/MDI-X)	-	-
Network protocol	TCP/IP, UDP	-	-
Wiring	UTP (cat.5e or higher)	-	-
Installation method	Mountable to 19-inch racks	Wall mount or attach to DIN rail	Wall mount or attach to DIN rail
External material	Front Cabinet: ABS, Lower / Upper Cabinet: Steel	Flame retardant PC+ABS resin	Flame retardant ABS resin
Supported functions	• Mobile Remote • Voice mail • E-mail notification • Supports up to 2000 SIP devices (embedded SIP server)	-	-

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- MIFARE is a registered trademark of NXP B.V. and is used under license.
- iPhone and iPad Air are trademarks of Apple Inc., registered in the U.S. and other countries.
- Android is a trademark of Google LLC.
- The software of this product is based in part on the work of the Independent JPEG Group.
- All other trademarks identified herein are the property of their respective owners.

Important
- Safety Precaution: carefully read the operating instructions and installation manual before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.
- This system is not designed to provide complete protection from property loss. To the maximum extent permitted by applicable law, Panasonic will not be held responsible for any damage incurred as a result of property loss.
- When installing or using the product, please take into consideration the rights of others with regard to privacy and rights of portrait.

• The actual product may vary slightly from photograph.
• Weights and dimensions are approximate.
• Design and Specifications are subject to change without notice.
• These products may be subject to export control regulations.

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Panasonic®

IP Video Intercom System
for Apartment complexes

Door Station VL-VN1500
Room Monitor VL-MN1000
Lobby Station VL-VN1900
Control Box VL-VN1800

Key Features

Full IP system
A pure IP system
The Door Station and Room Monitor support PoE (IEEE 802.3af compliant)

Supports large apartment systems
Up to 200 SIP devices on a system without a Control Box
Up to 2,000 SIP devices on a system with a Control Box
Up to 10,000 SIP devices on a system (up to 5 Control Boxes on a system)
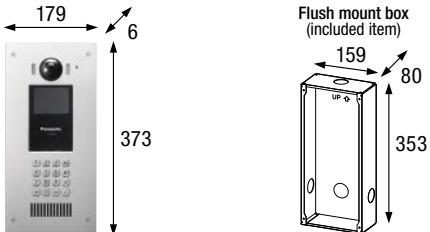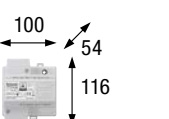
Easy installation, convenient maintenance
Easy Setup (Includes setup tool for mass configuration of large numbers of devices)

Mobile Remote*1
Remote visitor answering while checking visitor's live image
Push message with visitor's image
History log in chat form
Sensor notification
Allow visitors to enter the lobby and lift*2

Others
E-mail Notification (Control Box required)
Voice Mail (Control Box required)
Visitor Recording
Lift Integration*2 (Third party device required)

Model number and name	VL-VN1900 (Lobby Station)		
Dimensions (Unit: mm)	179 / 6 / 373	Flush mount box (included item) 159 / 80 / 353	VL-PS240 (Power Supply Unit) 100 / 54 / 116
Power source	Power supply unit (VL-PS240) Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A	Image sensor	2.0 M pixels CMOS sensor
Power consumption	Standby: 3.5 W, Operating: 8.5 W	Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)
		Lighting method	White coloured LED lights
Dimensions (H x W x D) (Excluding protruding sections)	373 x 179 x 6 mm (excluding sections embedded into the wall)	IP rating / IK rating	IP55*3 / Compliant with IK07
Weight	VL-VN1900: 1.5kg, VL-PS240: 230 g	Installation method	VL-VN1900: Flush mount (flush mount box supplied) VL-PS240: Wall mount or attach to DIN rail
Operating environment	VL-VN1900: Ambient temperature: Approx. -10 °C to +55 °C Relative humidity (non-condensing): up to 90 % VL-PS240: Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)	External material	VL-VN1900: Aluminium VL-PS240: Flame retardant PC+ABS resin
		Network interface	10BASE-T/100BASE-TX (Auto MDI/MDI-X)
		Network protocol	TCP/IP, UDP
Display	3.5-inch colour display (320x240 pixels)	Wiring	UTP (cat.5e or higher)
Display language	English, Arabic, French, Italian, German, Spanish, Dutch, Vietnamese and Indonesian Only user guidance supports multiple language Resident's names are only in English	SIP server	Embedded SIP server (up to 200 devices)
		Video / Audio format	Video: H.264, Audio: G.711
Talking method	Hands-free	Expanded interface	Support for electric lock releasing (entrance unlocking) x 1
Viewing angle	Horizontally: Approx. 120°, Vertically: Approx. 72° (15° angle adjusting, vertical only)	Supported functions	• Display a BMP file set by the user (320x220 pixels) • Room numbers using numbers 0 to 9 and letters A to F • Phonebook (Room-No., Resident's name) • Theft detection buzzer • Unlock lobby door via a PIN code or RFID card (MIFARE) • Reception mode (visitor calls are directed to a receptionist) • Recording images of visitors to NVR • Lift integration*2
Card reader (RFID)	13.56 MHz (ISO/IEC 14443 Type A (MIFARE®)) (Note) 50,000 RFID card keys can be registered to each Lobby Station. Each card key must be individually registered/updated ("Issue card", "Lost/Found", and "Delete") to each Lobby Station with which it will be used. There are no batch operations to register/update card keys to multiple Lobby Stations at the same time.		

*1 Control Box (VL-VN1800) required. Compatible mobile devices: iPhone 5s and later, iPad Air and later (iOS 10 and later) / Android™ devices (Android 4.4 and later), as of June 2019. Some mobile devices may not be compatible. Supported languages: English, Vietnamese and Indonesian.
*2 A third-party lift controller is required for lift integration. Lift controllers are not available in some areas. For more information about lift controllers and their installation, consult your dealer.
*3 Water resistance is only assured if the lobby station is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.

MG-DHPE020EN 1903TD/ZZZ-2.1

System Diagram of the IP Apartment System

Up to 200 SIP devices

Support up to 200 devices on a system without a Control Box

FUNCTION
- 200 SIP devices are supported
- Multiple sessions are supported
- Easy setup by PC tool
- Send text message from control room to all monitors

IP Camera
E-Lock
R
PoE Switch
UTP CAT5e

IP Camera
E-Lock
R
PoE Switch
UTP CAT5e

PoE Switch

IP Camera
E-Lock
PSU
PoE Switch
UTP CAT5e

IP Camera
SIP Phone
Gate

Reception/Guard
SIP Phone
NVR
PC
PoE Switch
UTP CAT5e

Up to 2,000 SIP devices

Support up to 2,000 devices on a system with a Control Box

FUNCTION
- 2,000 SIP devices are supported
- Multiple sessions are supported
- Easy setup by PC tool
- Send voice mail from control room to all monitors
- E-mail notification
- Mobile Remote

Cellular Network
Internet
Global IP Address
Router *1
*2

IP Camera
E-Lock
R
PoE Switch
UTP CAT5e

IP Camera
E-Lock
R
PoE Switch
UTP CAT5e

IP Camera
E-Lock
R
PoE Switch
UTP CAT5e

IP Camera
E-Lock
R
PoE Switch
UTP CAT5e

Control box VL-VN1800
PoE Switch

SIP Phone
IP Camera
Gate

R : Relay box [VL-RLY1]

IP Camera
E-Lock
PSU
PoE Switch
UTP CAT5e

Reception/Guard
SIP Phone
NVR
PC
PoE Switch
UTP CAT5e

*1 A router connected to the internet with a global IP address is required. (A DDNS service may be required depending on the contract of the Internet service provider.)
Router setting required to use the Mobile Remote function. For more information, consult your dealer.
*2 An internet connection is required to use the Mobile Remote function on mobile devices. When the mobile device is connected to the same Local Network as the Control Box, Mobile Remote does not work.

Support up to 10,000 devices on a system with 5 Control Boxes

FUNCTION
- 10,000 SIP devices are supported
- Multiple sessions are supported
- Easy setup by PC tool
- Mobile Remote
- E-mail notification
- Send voice mail from control room to all monitors
  (When multiple Control Boxes are installed, a message must be left on each Control Box.)

Up to 2,000 SIP devices
Control box VL-VN1800
PoE Switch
SIP Phone

Up to 2,000 SIP devices
Control box VL-VN1800
PoE Switch
SIP Phone

Up to 2,000 SIP devices
Control box VL-VN1800
PoE Switch
SIP Phone

Up to 2,000 SIP devices
Control box VL-VN1800
PoE Switch
SIP Phone

Up to 2,000 SIP devices
Control box VL-VN1800
PoE Switch
SIP Phone

Internet
Global IP Address
Router *1
Cellular Network
*2
PoE Switch

Common Area
Gate
Lobby Station VL-VN1900

Reception/Guard
Lobby Station VL-VN1900
SIP Phone
NVR
PC

Maximum connectable number of devices per Control Box

SIP Connection

Within System Total

VL-VN1500 Door Station
VL-MN1000 Room Monitor

Up to 5 monitors per residence
Up to 256*1 residences register monitors group.

Up to 100
Register up to 45 Lobby Stations and door stations per monitor
VL-VN1900 Lobby Station

VL-VN1800 Control Box

System Total
up to 2,000 SIP devices (with Control Box)
up to 200 SIP devices (without Control Box)

Up to 500
Register up to 32 IP Cameras per monitor
IP Camera

Up to 100 for Common
Register up to 18 SIP Phones per monitor
Register up to 90 SIP Phones per lobby station
SIP Phone

PoE Switch

NVR
PC

Maximum connectable number of monitors per Residence
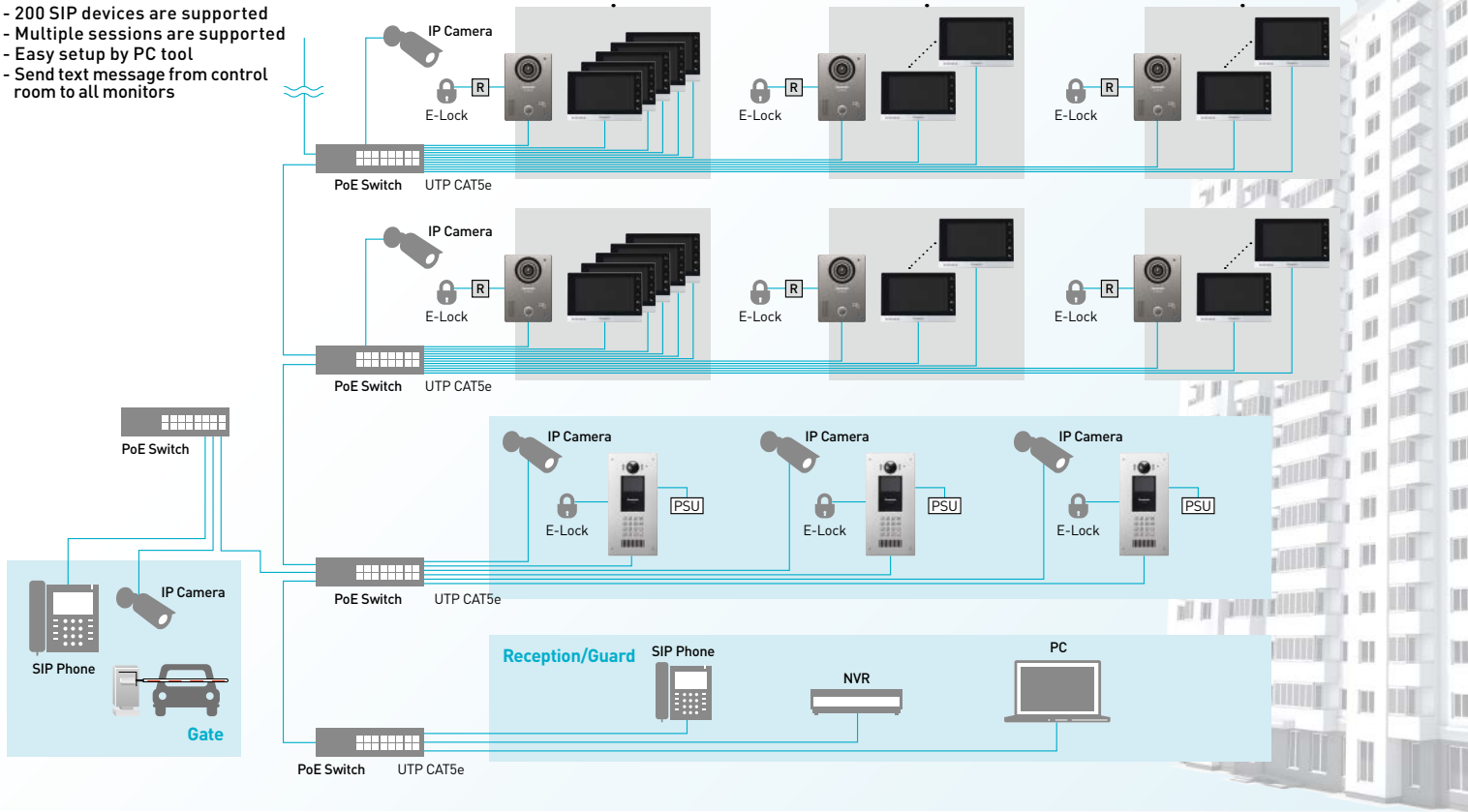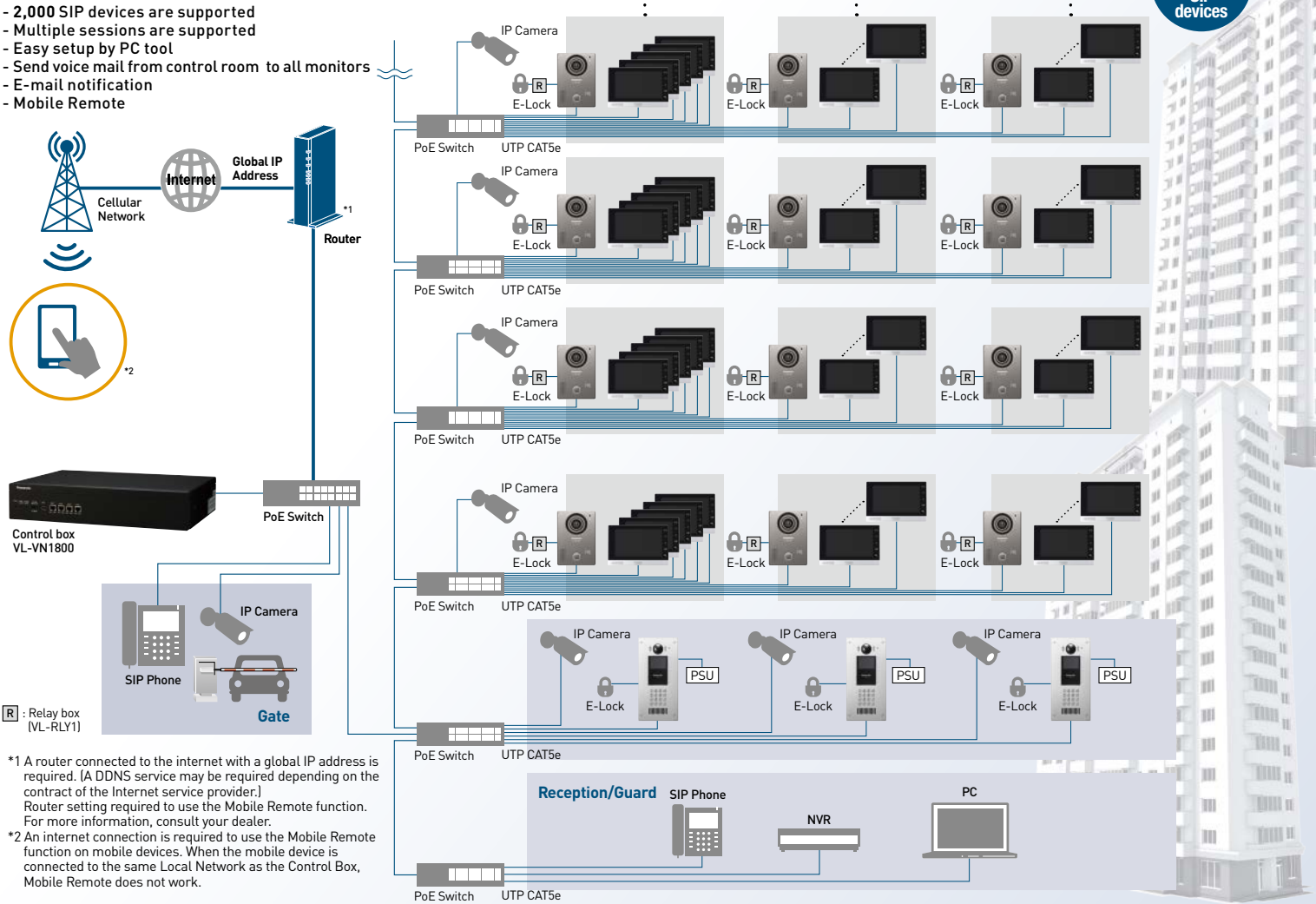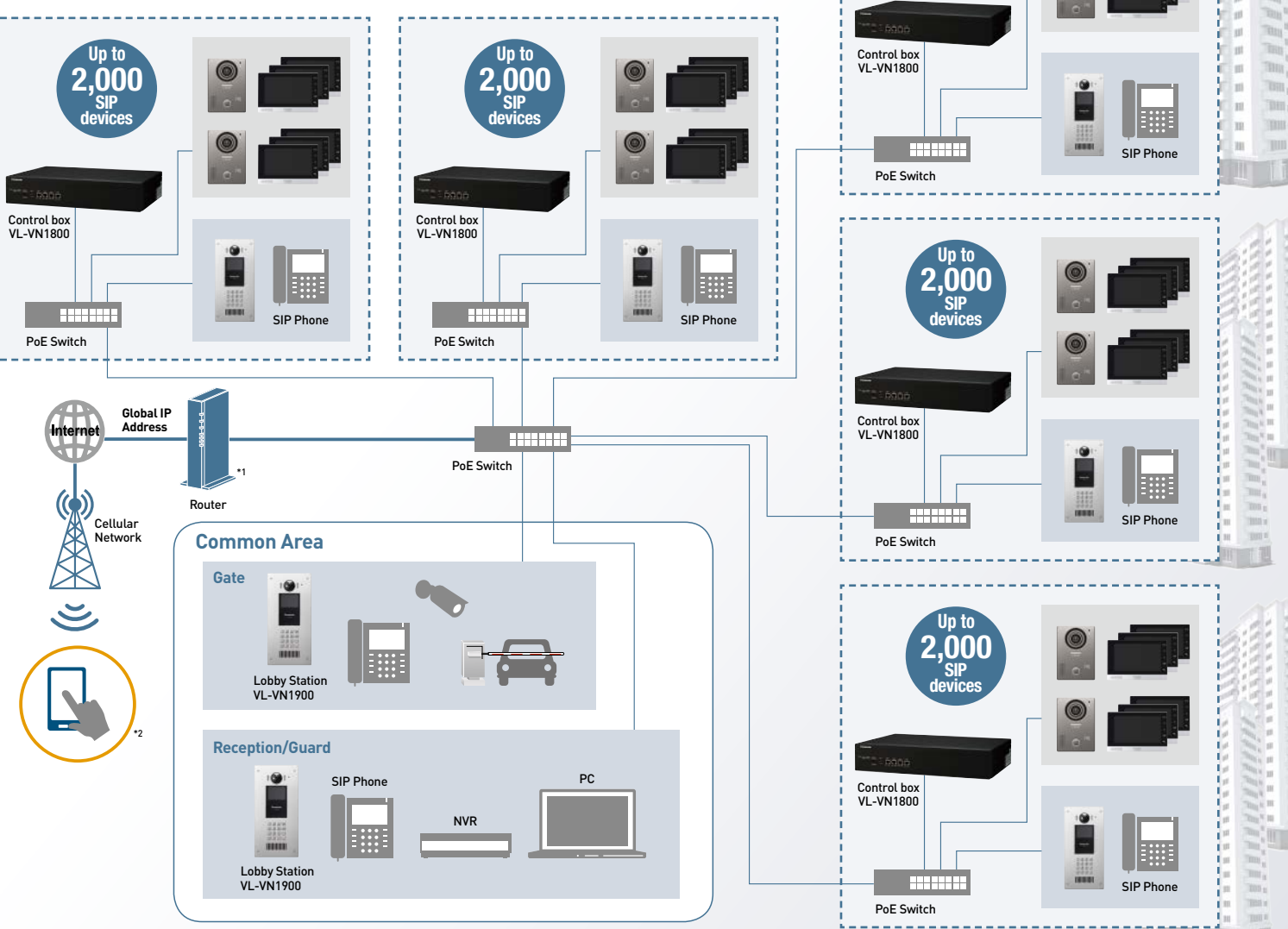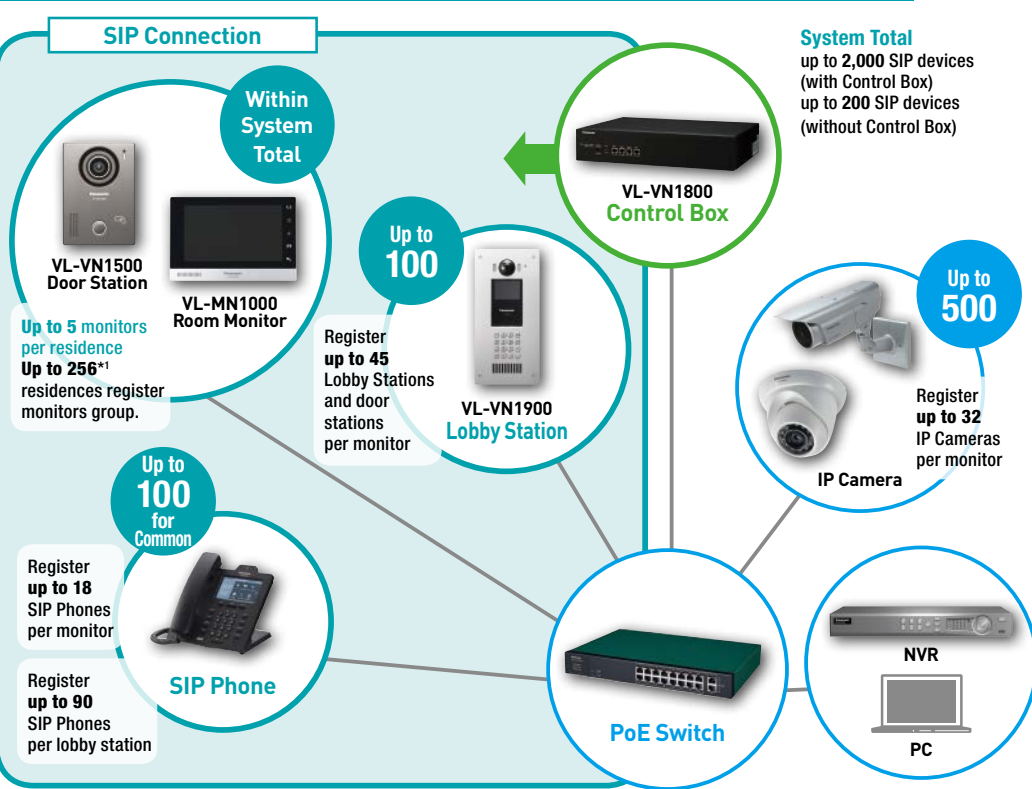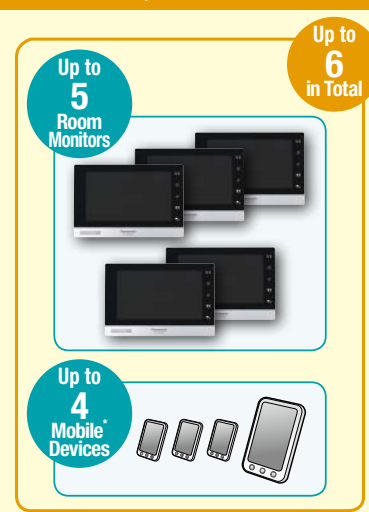
Up to 5 Room Monitors

Up to 6 in Total

Up to 4 Mobile* Devices

*Compatible mobile devices: iPhone 5s and later, iPad Air and later (iOS 10 and later) / Android™ devices (Android 4.4 and later), as of June 2019
Up to 4 mobile devices can be registered per residence (room number). (Up to 4 mobile devices can be counted as 1 SIP device.)
In order to use the Mobile Remote app on your mobile devices, you must register them in the Control Box through the room monitor.
For information about downloading and installing the app, please visit https://panasonic.net/cns/pcc/support/intercom/