

# AIPHONE



# GT SYSTEM

Video Multi-Tenant System

# GT system is ideal for large scale residential Style mixed with IP technology. Enable



**5,000**

**Aiphone's multi-tenant system can now serve up to 5,000 residences.** ▶ P08

- Install one system for housing complexes with multiple buildings.
- Cover a building with more than 500 units with one system.

**7-inch**

**Designed to be even easier to use.** ▶ P05

- Tenant station features a clear 7-inch display.
- Compact and intuitive functional design.



**IP and NFC technologies enable effective management.** ▶ P09

- Building management from anywhere via IP network connection.
- Built-in NFC reader for easy programming and tenant management.

developments with multiple buildings.  
creation of new solutions.



Multi building development



Large scale residential building



Gated community/ Villa

GT-1C7



# Tenant Station

## 7-inch display (GT-1C7)



- High-resolution, 7-inch display makes visitors easy to recognize.
- Functional design, intuitive control: illuminated easy-to-see buttons for door release and communication during calls from entrances.



## Wide / Zoom & PanTilt



- Panoramic Wide Angle View  
To provide effective security, GT System features a wide angle camera that enables you to see a clear panoramic view. Easily see and identify visitors standing on the sides and people of all heights.



Wide Image



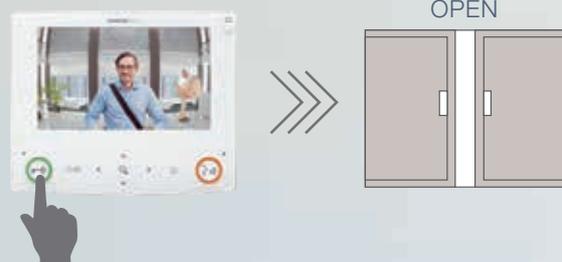
Zoom Image



PanTilt Image ( GT-1C7, GT-2C only )

## Door release

- Confirm the visitor and surroundings then open the entrance from inside.



## Selection of tenant stations for all needs



**GT-1C7**  
Color display tenant station  
• 7-inch display  
• Hands-free



**GT-1M3**  
Color display tenant station  
• 3.5-inch display  
• Hands-free



**GT-2C**  
Color display tenant station  
• 3.5-inch display  
• Picture memory  
• Optional individual door station  
• Optional handset (GT-HS)



**GT-1A**  
Audio tenant station  
• Hands-free



**GT-1D**  
Audio tenant station  
• Handset

# Entrance Station

All-in-one type / Module type

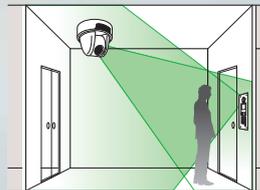


## Panoramic view angle & clear color image



- 170° angle wide view camera.
- White light LED illuminates automatically in low-light conditions.

## Optional security camera for more security



- Connect an additional CCTV camera. You can select one of the cameras placed at the entrance for monitoring. This allows you to confirm visitors from various angles, thus enabling the prevention of intrusion by suspicious individuals.

## NFC Reader



- Use the NFC reader or access codes for lock control.
- The NFC reader can also be used for programming the system. (→P.09)

## 2 panel styles

- 2 styles to choose from: All-in-one type or Module type.
- Module type allows audio only and other configurations.



All-in-one type



Module type

# Guard Station



## 3.5-inch display

- Easy operation for all guard functions.
- Video monitoring of entrance stations.

## Wide / Zoom & PanTilt

- See the 170° wide view video from the entrance stations.
- Use zoom and pantilt functions for a detailed view.

## Reception mode function

- Using this function, all entrance station calls are automatically transferred to the guard station, giving the security guard the ability to screen visitors.



## Can connect an individual video door station (JO-DV)

- Automatic LED illuminator for low light conditions.



JO-DV

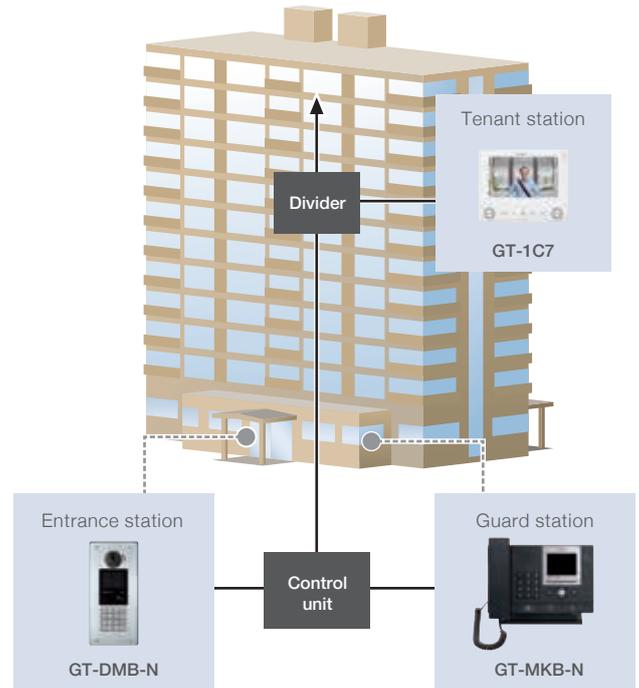
# System Variation

## Single building system

- Ideal for small- and medium-size residential buildings.
- Audio only configuration also possible.

### Maximum Capacity

	Tenant building / section	
	Standard system	Expanded system
Entrance station	5	16
Guard station	2	4
Tenant station	48*1	500



\*1: Up to 100 GT-1D audio tenant stations can be connected when configuring a standard audio only system.

5,000

## Multi building system

- Install one system for housing complexes with multiple buildings.
- Cover a building with more than 500 units with one system.
- Building management from anywhere via IP network connection.
- Audio only configuration for tenant buildings also possible.

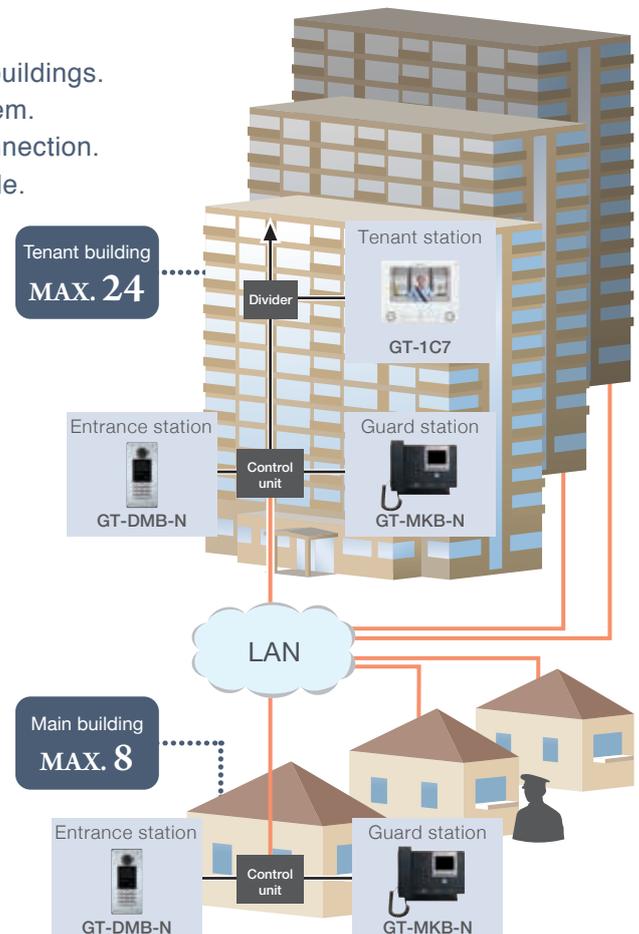
### Maximum Capacity (Number of stations are per building / section)

	Tenant building / section		Main building / section	
	Standard system	Expanded system	Standard system	Expanded system
Entrance station	4	15	4	15
Guard station	1	3	1	3
Tenant station	48	500	—	—

### Total maximum capacity

(Total for tenant building / section and main building / section)

Entrance station	480
Guard station	96
Tenant station	5,000

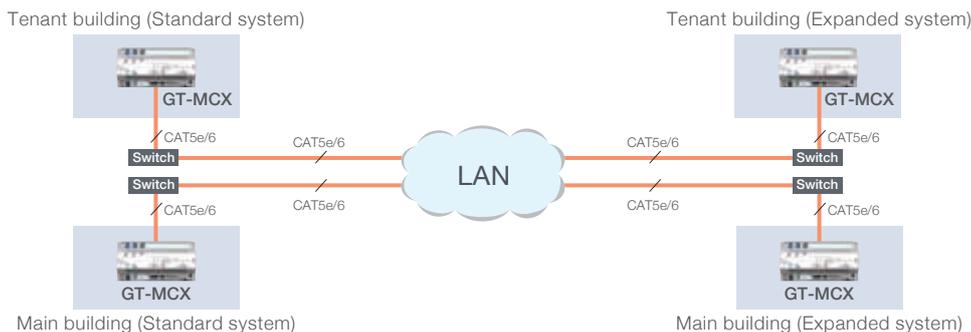




## IP technology



- Multiple tenant buildings and main buildings can be connected via an IP network to create a multi building system for centralized management.
- A maximum of 24 tenant buildings and 8 main buildings can be connected.
- Multiple tenant buildings can be combined to accommodate large-scale residential buildings with more than 500 units.
- Connects buildings together and enables communication.



## System programming and NFC technology

### Easy system setting on a PC or Android mobile device

- Settings can be made from a PC or Android mobile device by using GT Setup Tool.
- Supported OS: Windows 7, 8.1, 10.\*1
- Supported Android OS version: Android 5.0 and greater.

\*1: For operating systems not listed, please contact your Aiphone dealer.



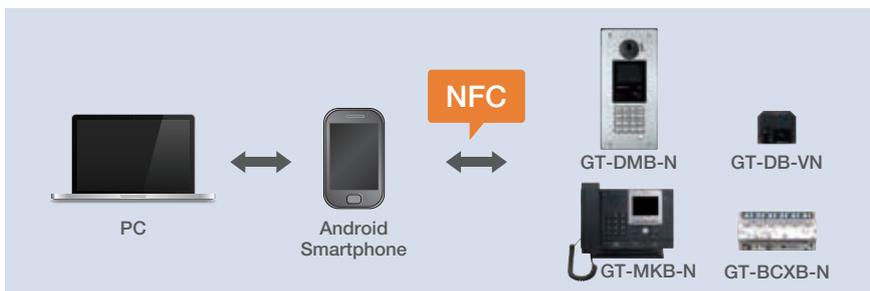
GT Setup Tool for Windows



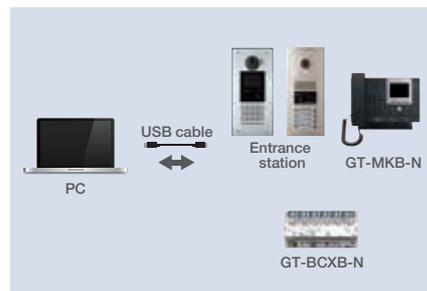
GT Setup Tool for Android

### Uploading the setting data

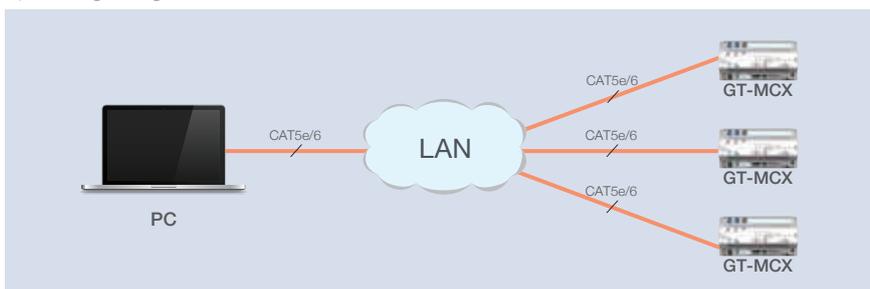
Uploading using an Android mobile device for GT-DMB-N, GT-DB-VN, GT-MKB-N, GT-BCXB-N (W/NFC reader)



Connecting a unit to a PC via USB



Uploading using a network connection



# Multi Building Development

## Installation example

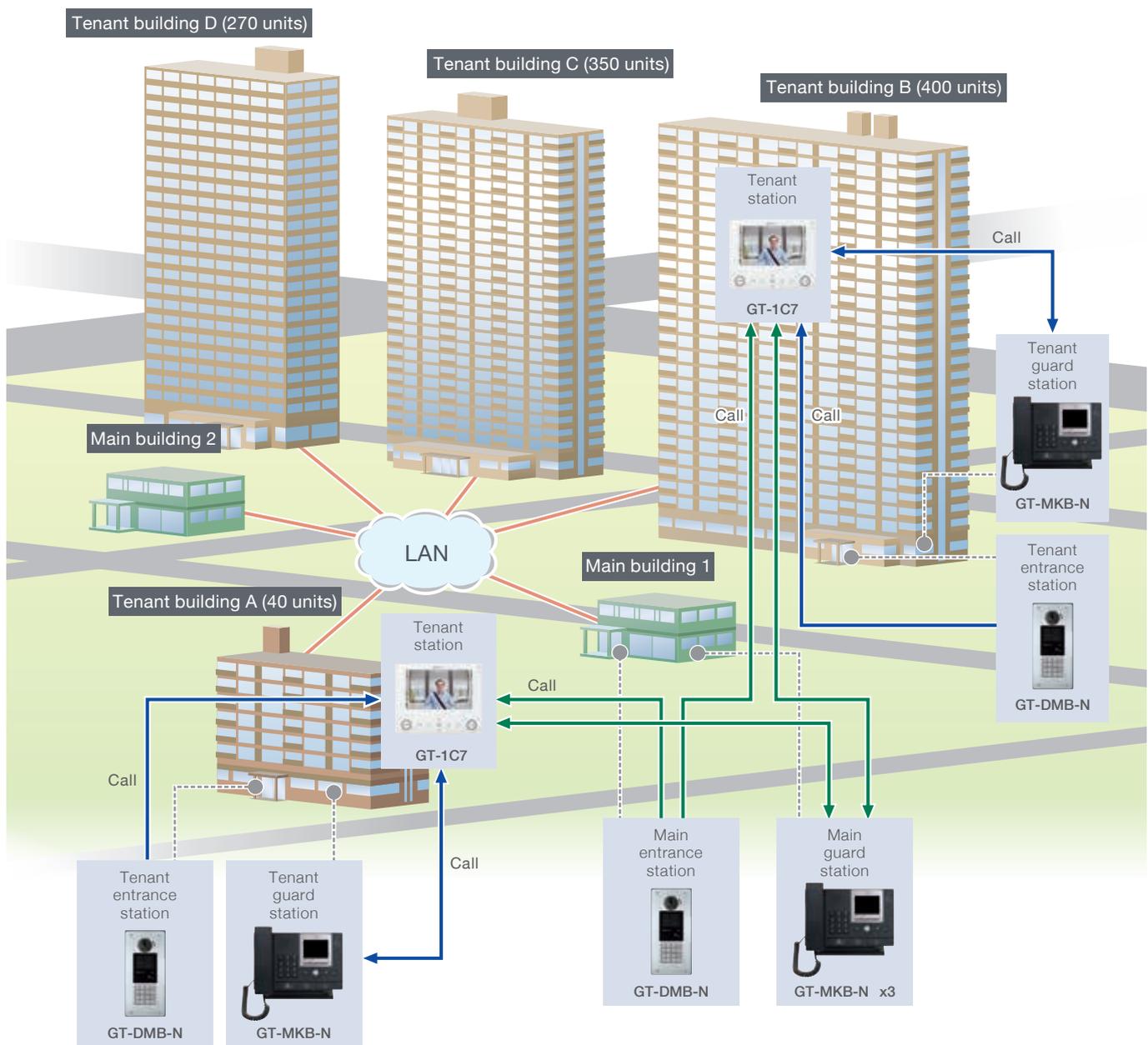
e.g. 4 Tenant buildings (4 Entrance stations, 4 Guard stations, 1,060 Tenant stations)  
2 Main buildings (2 Entrance stations, 6 Guard stations)

- Can be configured as a single system without creating separate systems for each building.
- Connect buildings through an IP network. Ideal for large sites with long distances between buildings.
- The main building can communicate with all tenant buildings.

### Proposed system:

1 Standard system, 3 Expanded systems in tenant buildings.  
2 Expanded systems in main buildings.(Maximum capacity → P.08)

\*Possible to mix video and audio only systems.

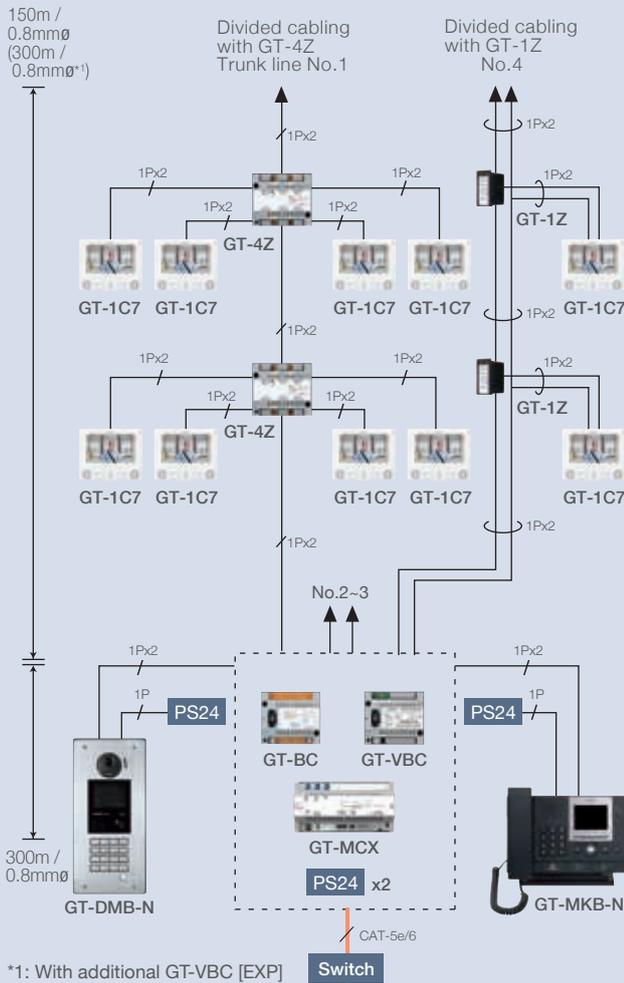


Tenant building A, B, C, D: In the above example, tenant buildings mean residential buildings and towers.  
Main building 1 & 2: In the above example, main buildings mean buildings such as security centers and administrative offices.

## System configuration example

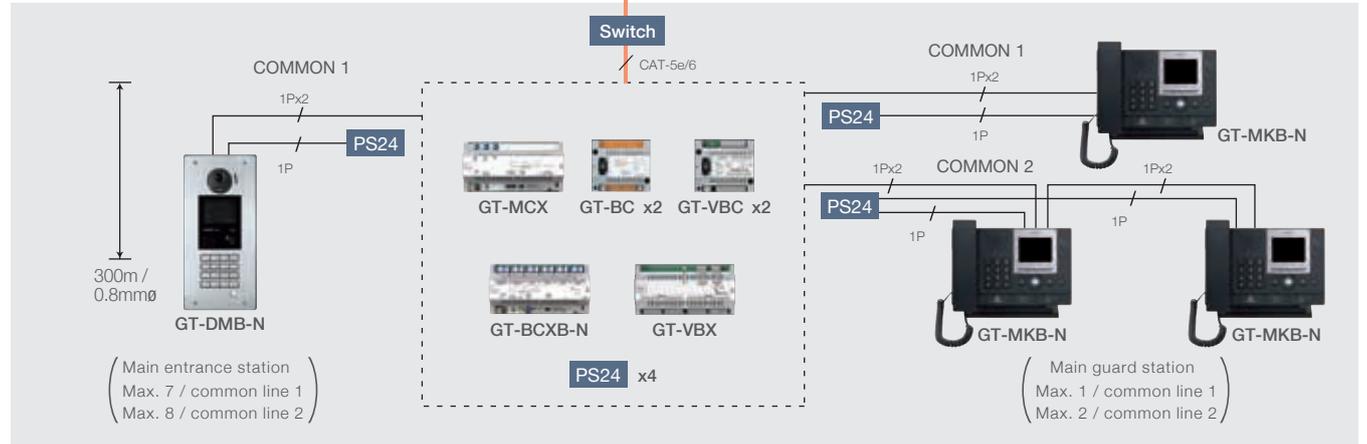
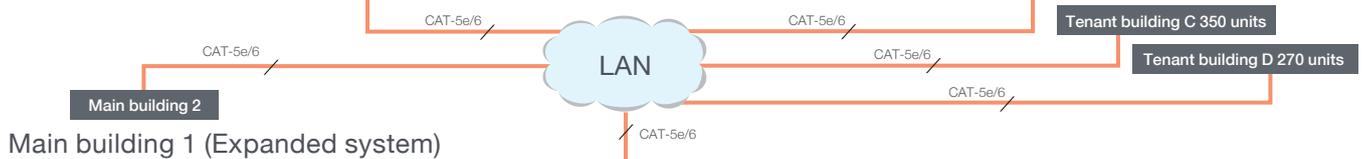
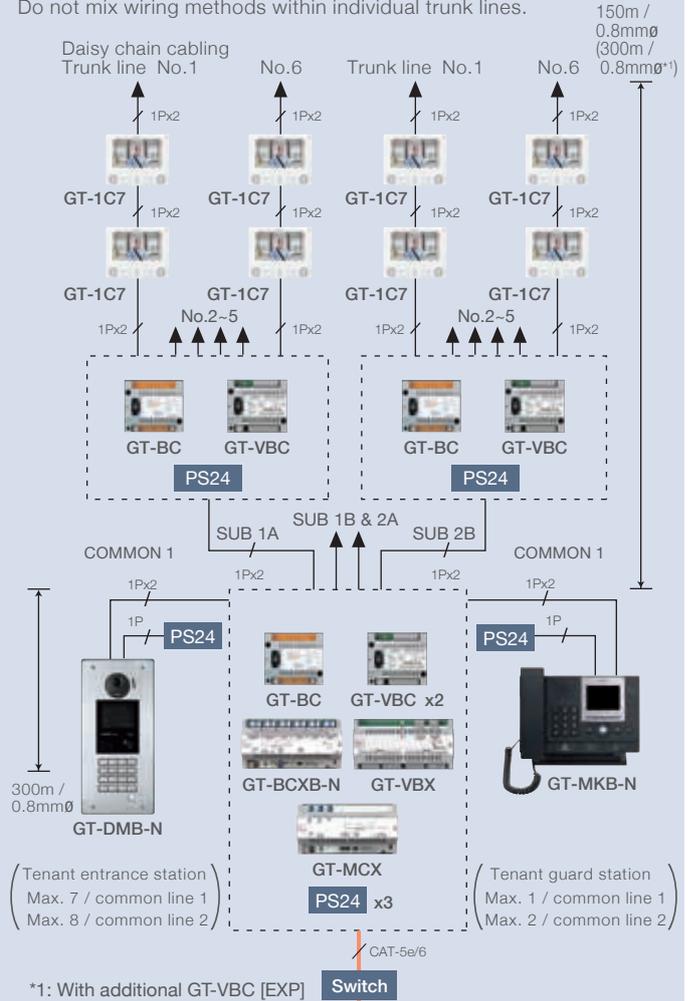
### Tenant building A: 40 units (Standard system)

Total max. wiring distance is 2,500m.  
Do not mix wiring methods within individual trunk lines.



### Tenant building B: 400 units (Expanded system)

4 sub trunk lines (SUB1A, 1B, 2A, 2B)  
Max. 125 Tenant stations and max. 2,500m wiring distance for each sub trunk line. Total max. wiring distance is 10,000m.  
Do not mix wiring methods within individual trunk lines.



\*Cable: 1Px2, 2-conductor cable solid copper & non-braided, polyethylene insulation.

# Large Scale Residential Building (more than 500 units)

## Installation example

e.g. 3 Tenant sections (1,100 Tenant stations)

1 Main section (3 Entrance stations, 3 Guard stations)

- Multi-building control units allow systems to be configured without having to use separate systems for each section.
- All tenant stations can be called from any entrance station or guard station.

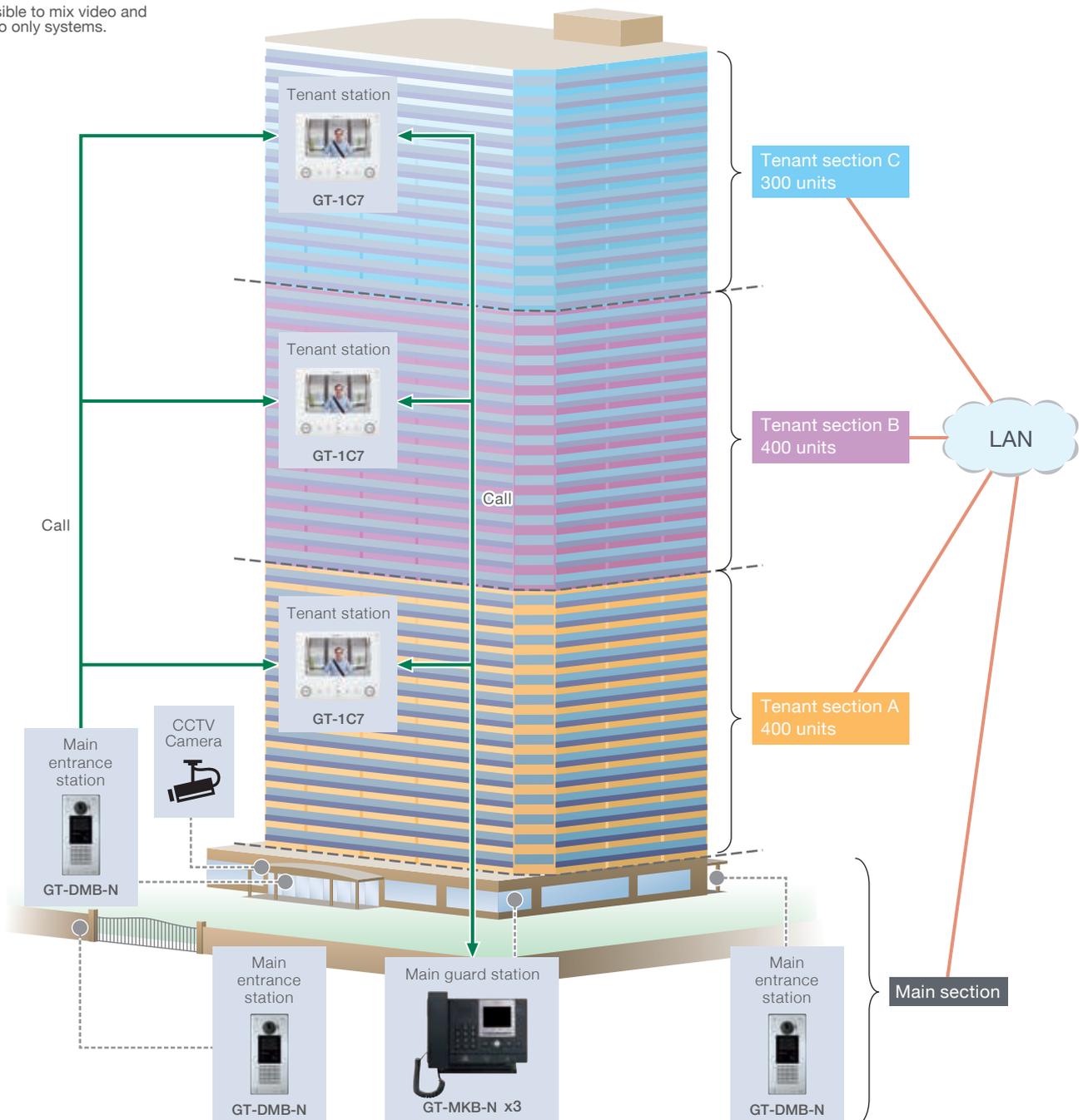
### Proposed system:

3 Expanded systems in tenant sections

1 Expanded system in main section

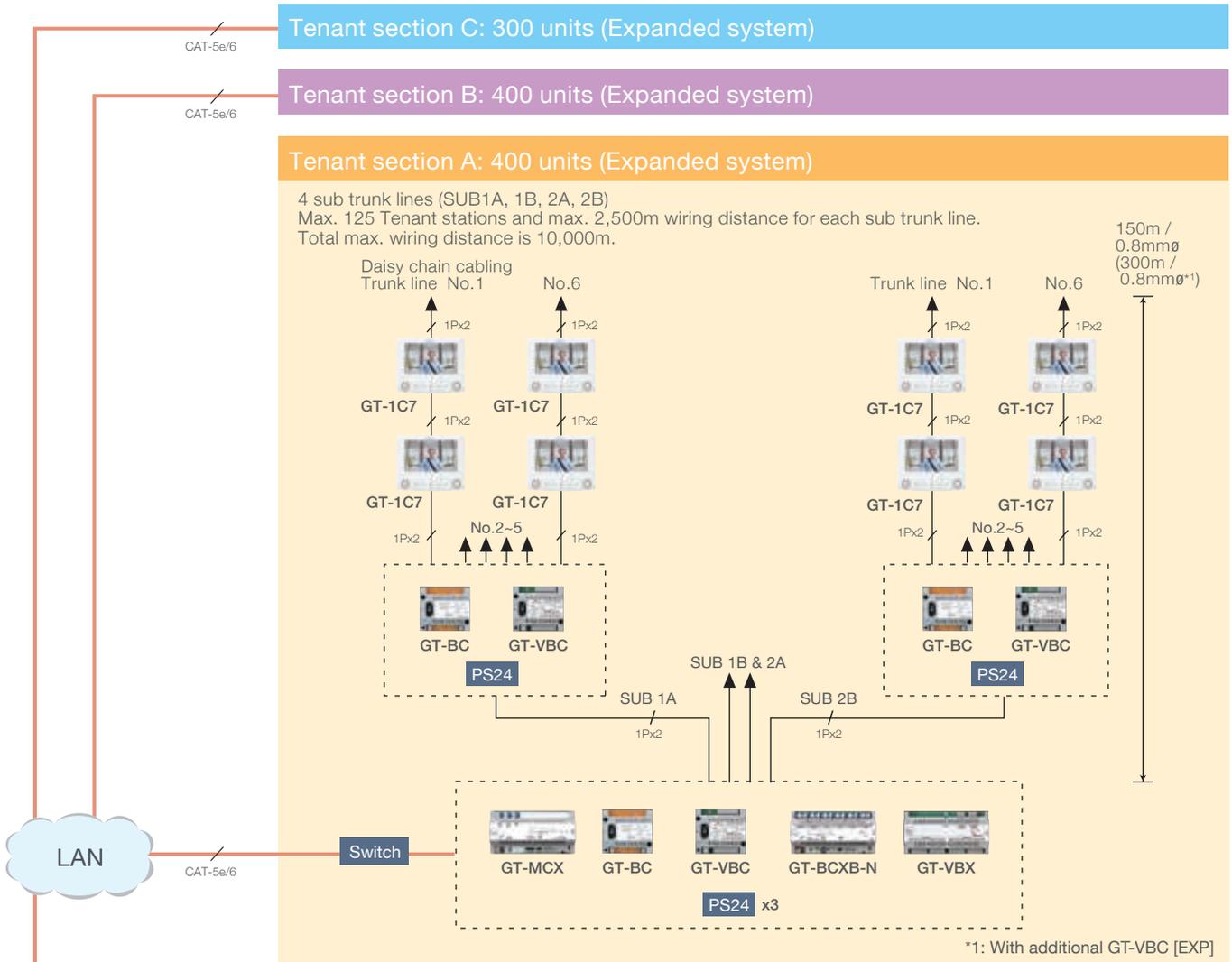
(Maximum capacity → P.08)

\*Possible to mix video and audio only systems.

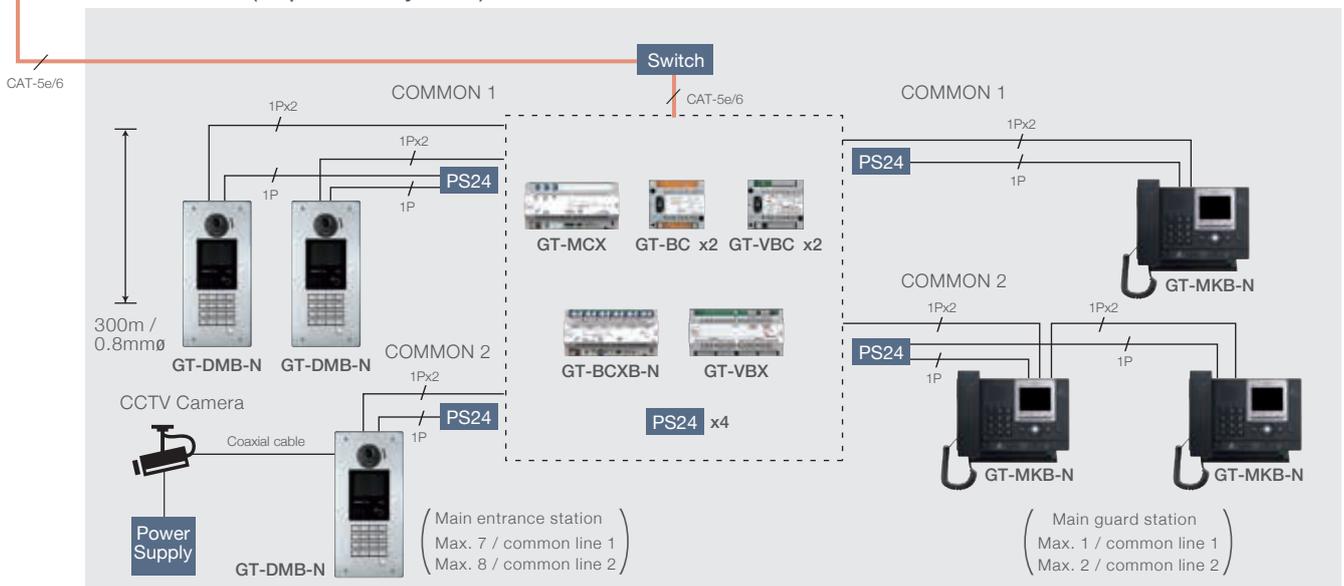


Main section: In the above example, main section means lobby and main entrance.

## System configuration example



## Main section (Expanded system)



\*Cable: 1Px2, 2-conductor cable solid copper & non-braided, polyethylene insulation.

## Installation example

e.g. 2 Tenant sections (60 Tenant stations)

1 Tenant building (1 Entrance station, 1 Guard station, 400 Tenant stations)

1 Main section (1 Guard station)

- All sections (buildings) can be configured in a single system without creating separate systems for different types of buildings.
- Connect sections through an IP network. Ideal for large sites with long distances between sections.
- The main section can communicate with all tenant sections.

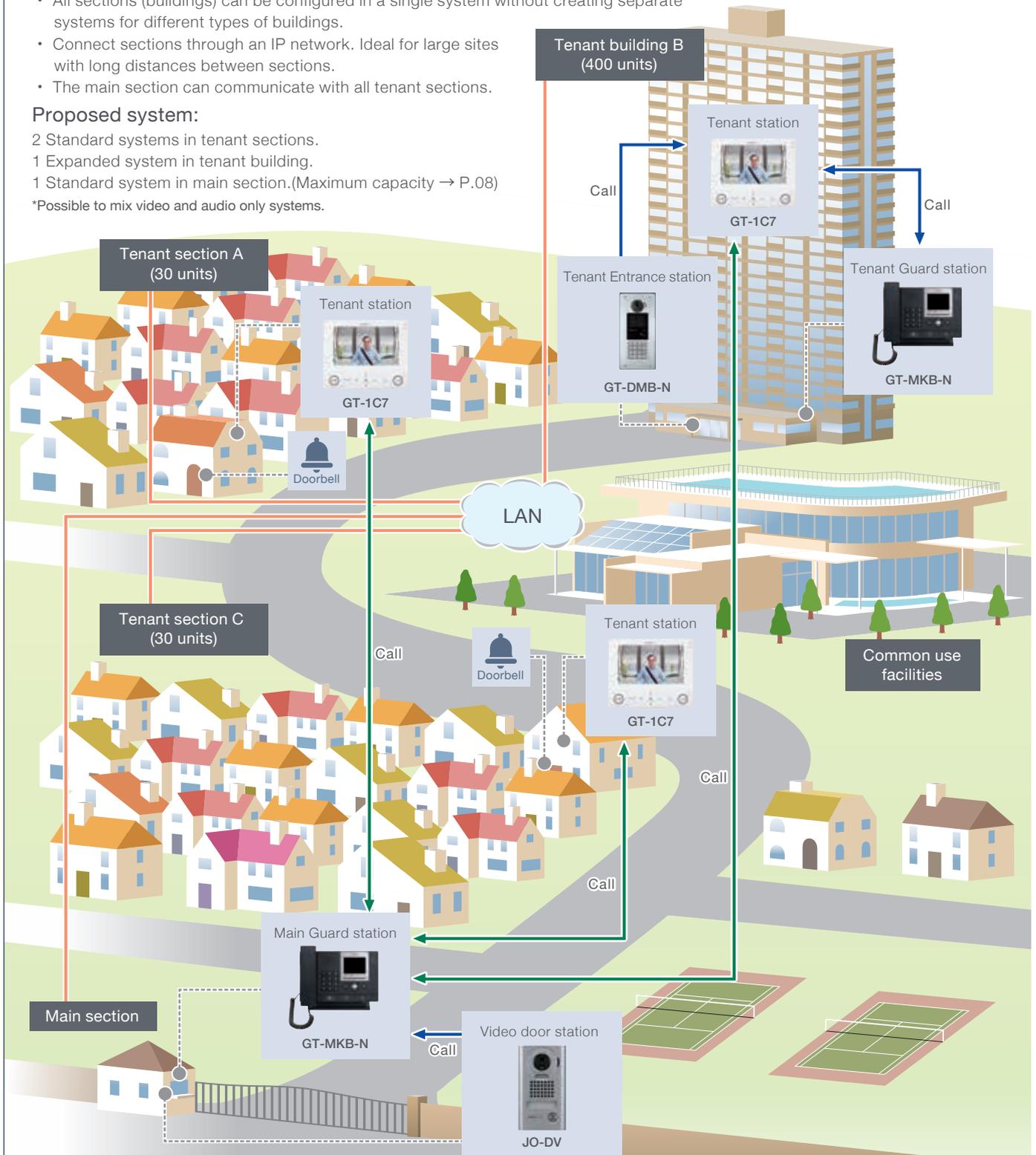
### Proposed system:

2 Standard systems in tenant sections.

1 Expanded system in tenant building.

1 Standard system in main section. (Maximum capacity → P.08)

\*Possible to mix video and audio only systems.



Tenant section A, C: In the above example, tenant sections mean individual housing sections.

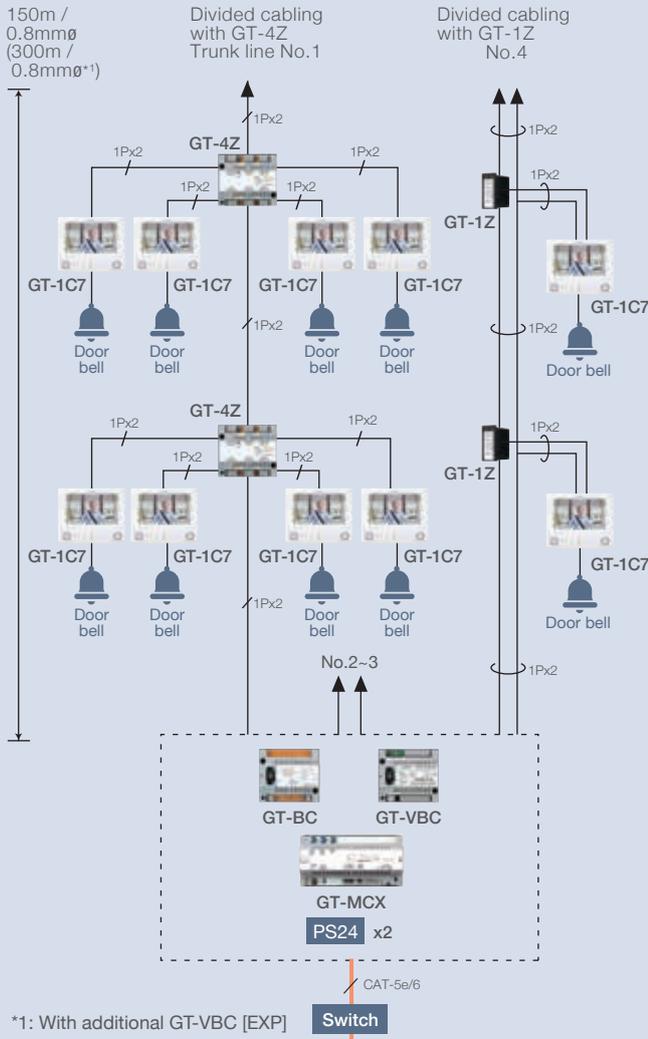
Tenant building B: In the above example, tenant building means residential tower.

Main section 1: In the above example, main section means buildings such as security centers and administrative offices.

## System configuration example

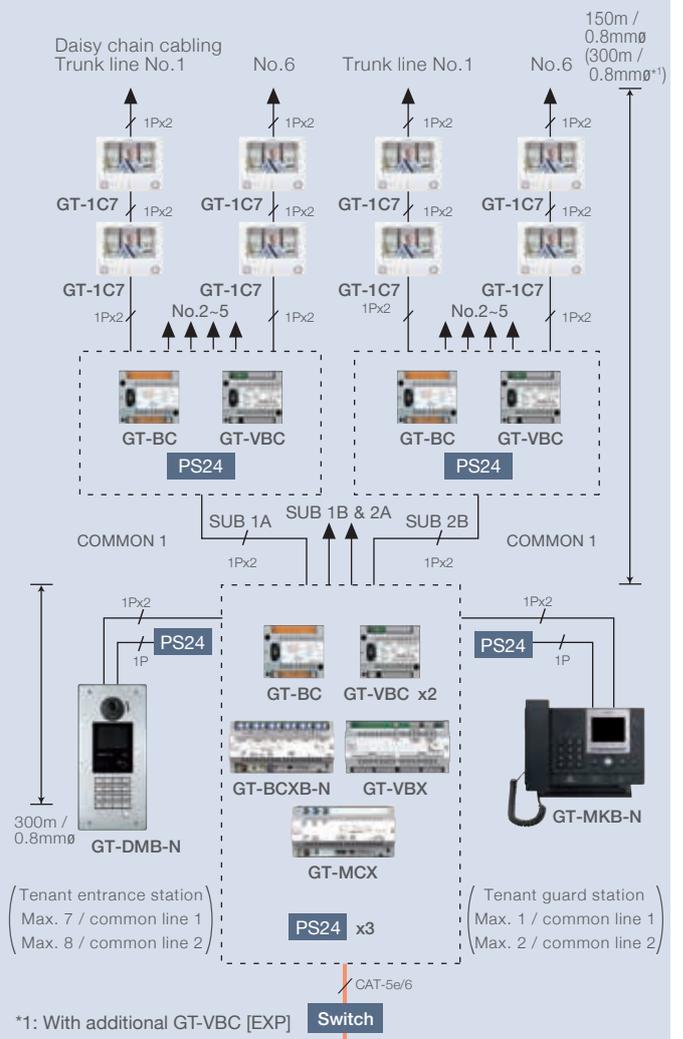
### Tenant section A & C: 30 units (Standard system)

Total max. wiring distance is 2,500m.  
Do not mix wiring methods within individual trunk lines.

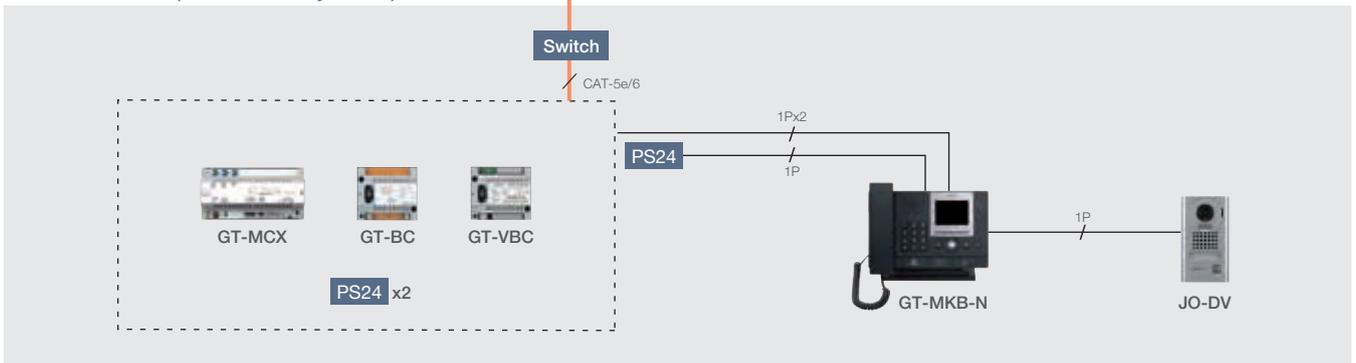


### Tenant building B: 400 units (Expanded system)

4 sub trunk lines (SUB1A, 1B, 2A, 2B)  
Max. 125 Tenant stations and max. 2,500m wiring distance for each sub trunk line. Total max. wiring distance is 10,000m.  
Do not mix wiring methods within individual trunk lines.



### Main section (Standard system)



\*Cable: 1Px2, 2-conductor cable solid copper & non-braided, polyethylene insulation.

# Small Residential Building (e.g. 20 units)

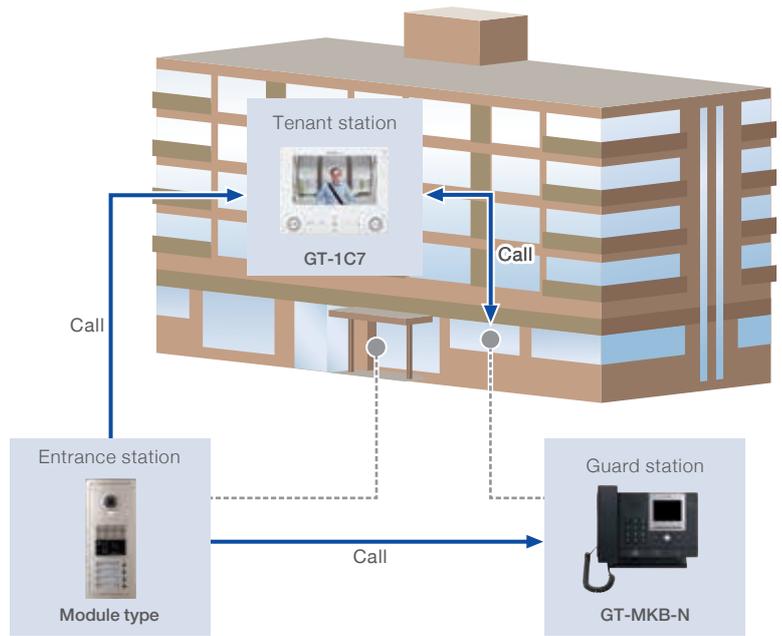
## Installation example

e.g. 1 Tenant building (1 Entrance station, 1 Guard station, 20 Tenant stations)

### Proposed system:

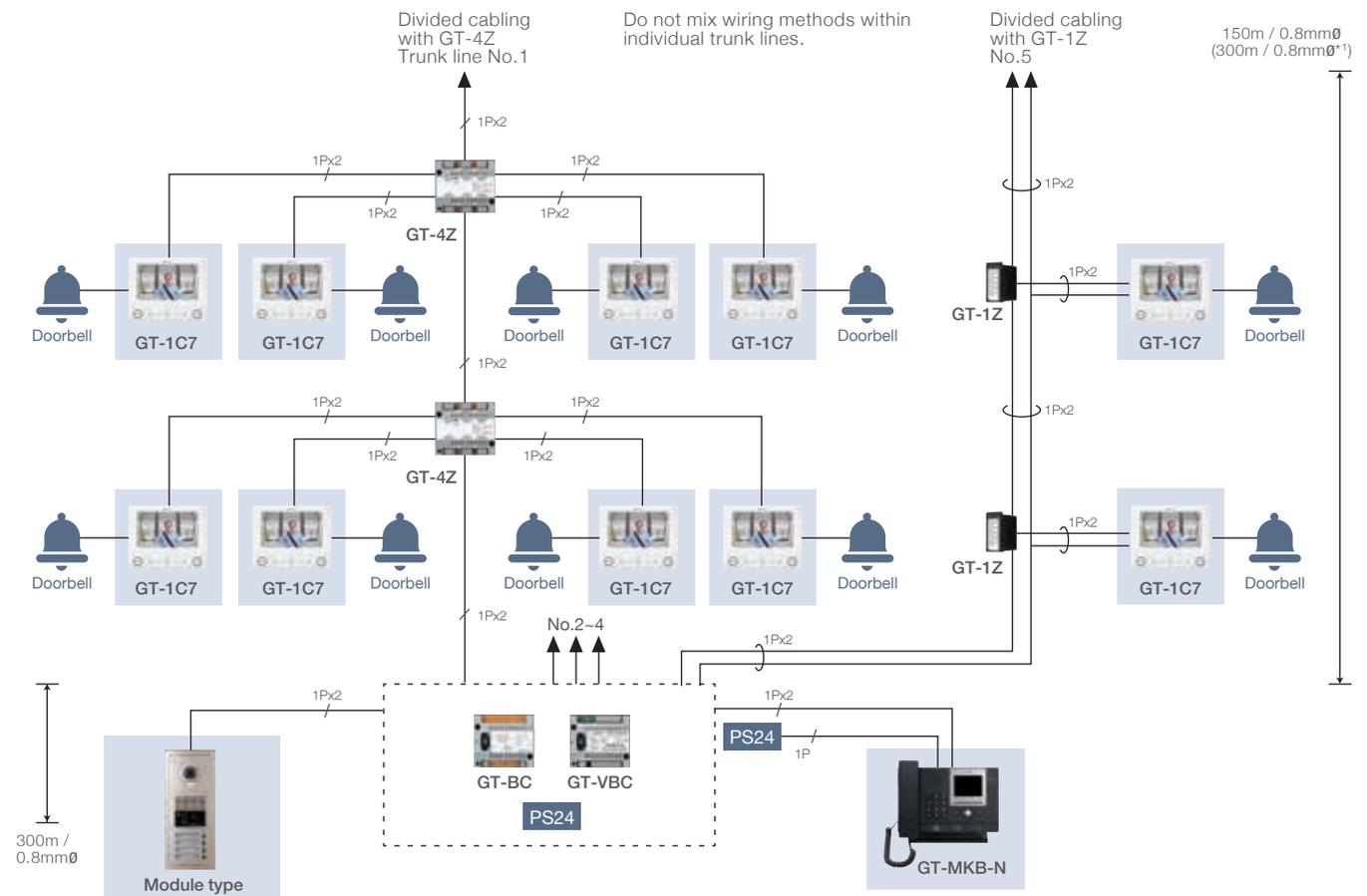
1 Standard system in tenant building.  
(Maximum capacity → P.08)

\*Possible to mix video and audio only tenant stations.



## System configuration example

Total max. wiring distance is 2,500m.



\*Cable: 1Px2, 2-conductor cable solid copper & non-braided, polyethylene insulation.

\*1: With additional GT-VBC [EXP]

# Medium-Size Residential Building (e.g. 150 units)

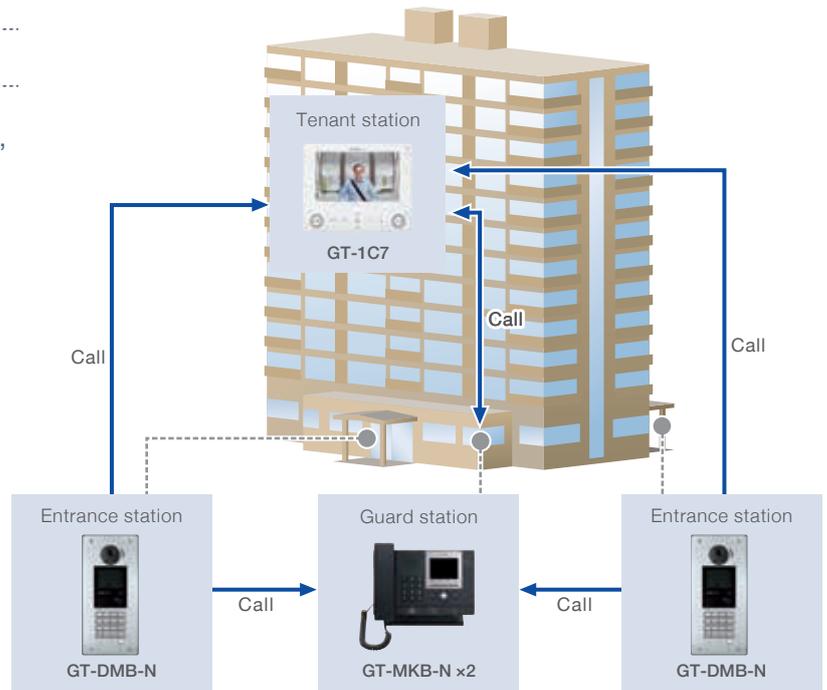
## Installation example

e.g. 1 Tenant building (2 Entrance stations, 2 Guard stations, 150 Tenant stations)

### Proposed system:

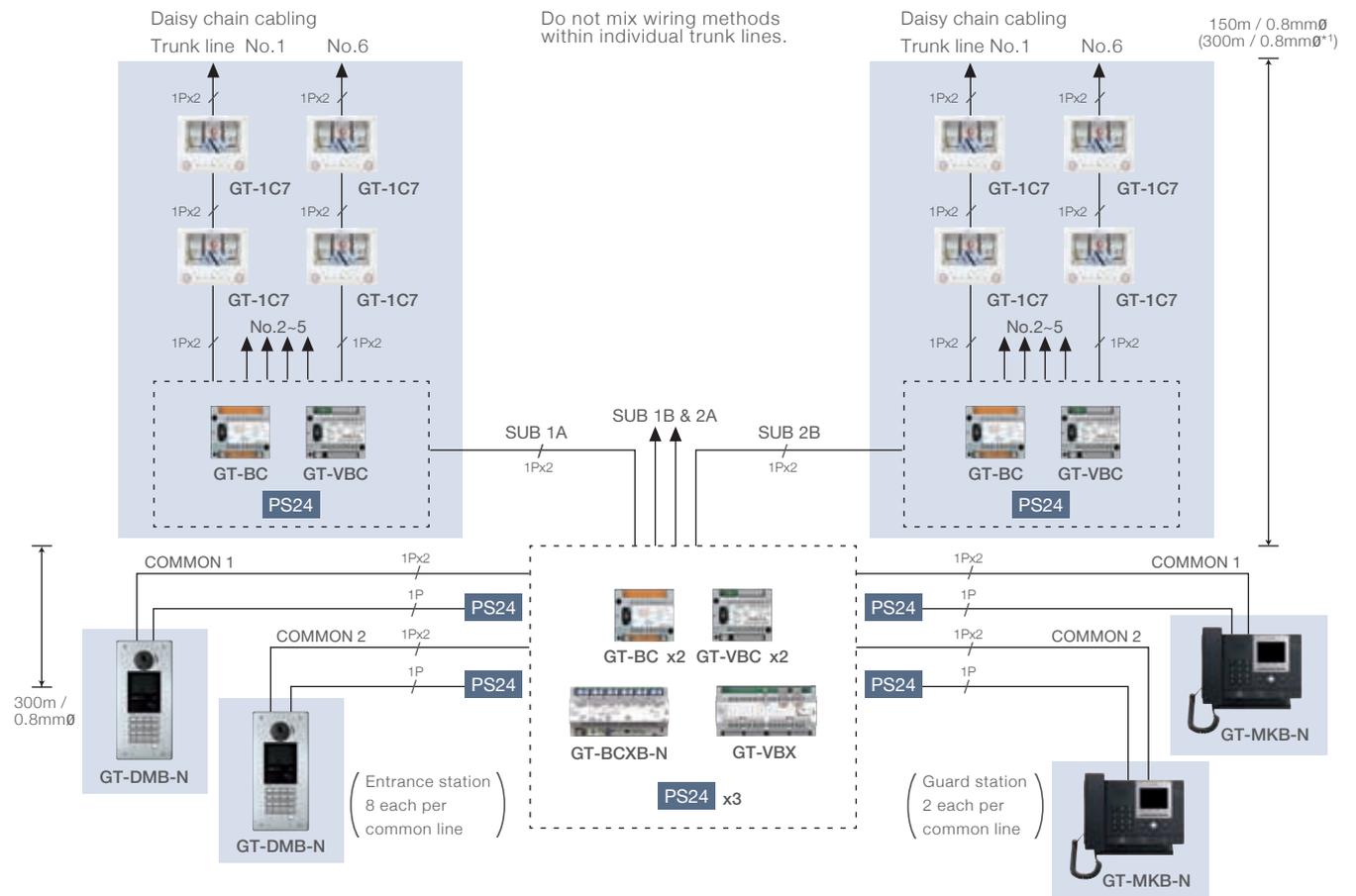
1 Expanded system in tenant building.  
(Maximum capacity → P.08)

\*Possible to mix video and audio only tenant stations.



## System configuration example

4 sub trunk lines (SUB1A, 1B, 2A, 2B)  
Max. 125 tenant stations and max. 2,500m wiring distance for each sub trunk line.  
Total max. wiring distance is 10,000m.



\*Cable: 1Px2, 2-conductor cable solid copper & non-braided, polyethylene insulation.

\*1: With additional GT-VBC [EXP]

# System Components

## Entrance station

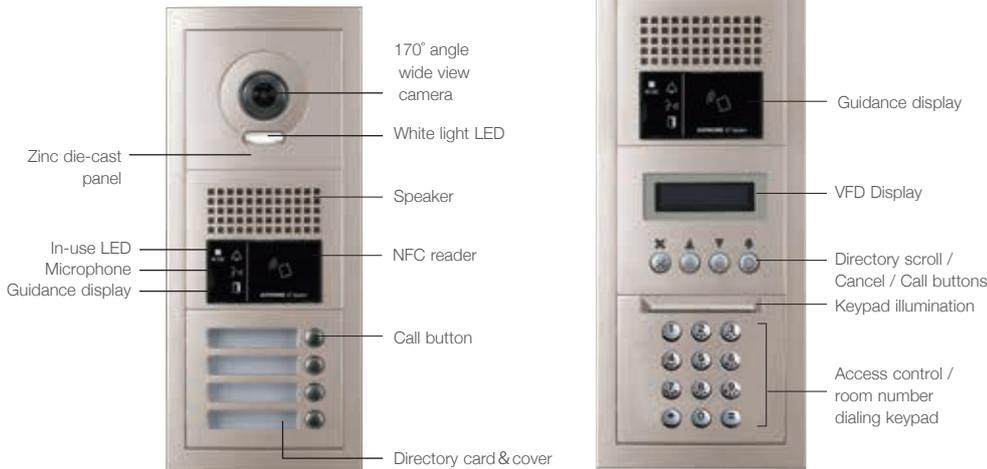
### All-in-one type



**GT-DMB-N**  
Entrance station  
W/NFC reader  
( Back box not included. )  
Use GF-3B.

- 170° angle wide view camera.
- Audio & visual guidance to provide visitors status and operation assistance.
- Search names and numbers using the keypad.
- Custom programmable welcome messages can be displayed.
- 9 languages (English, French, German, Spanish, Dutch, Italian, Norwegian, Turkish and Finnish) are available for messages on Guidance display.
- 6 languages (English, French, German, Spanish, Dutch and Norwegian) are available for audio guidance.
- White light LED illuminates automatically in low-light conditions.

### Module type



#### Camera Module



**GT-VP** Camera panel  
**GT-VB** Camera module for GT-DB(-VN)

#### Call switch Module



**GF-1P** 1-call panel  
**GF-2P** 2-call panel  
**GF-3P** 3-call panel  
**GF-4P** 4-call panel  
**GT-SW** Call switch module

#### Audio Module



**GT-DBP** Audio panel for GT-DB(-VN)  
**GT-DB\*1** Audio module W/O NFC reader  
**GT-DB-VN\*1** Audio module W/NFC reader

#### Digital name scrolling module



**GT-NSP-L** Display module panel  
**GT-NSB** Digital name scroll display module for GT-DB(-VN)

#### Front frame & back box



**GF-10KP** 10-key module panel  
**GT-10K** 10-key module



**GT-4F** 4-module front frame



**GT-4B** 4-module back box



**GF-3F** 3-module front frame



**GF-3B** 3-module back box



**GF-2F** 2-module front frame



**GF-2B** 2-module back box

#### Access control keypad module



**GT-AC** Access control keypad module

#### Option



**GF-AP** Address module panel  
**GT-AD** Address module  
**GF-BP** Blank panel



**GT-nH** Rain hood



**GT-nHB** Hooded surface-mount box

\*1: GT-DB and GT-DB-VN cannot be used in the main buildings of a multi building systems.

## Guard station



**GT-MKB-N**  
Guard station

## Power supply



PS-2420S  
PS-2420UL  
PS-2420BF  
PS-2420

## Tenant station



**GT-1C7**  
Color display tenant station



**GT-1M3**  
Color display tenant station



**GT-2C**  
Color display tenant station



**GT-2H**  
Color display sub tenant station



**GT-HS**  
Handset  
for GT-2C, GT-2H



**GT-1A**  
Audio tenant station



**GT-1D**  
Audio tenant station

## Door station

### Video door station for GT-2C



**JK-DA**  
Wide / Zoom & PanTilt  
video door station,  
surface mount



**JK-DV**  
Wide / Zoom & PanTilt  
Vandal resistant video  
door station, surface mount



**JK-DVF**  
Wide / Zoom & PanTilt  
Vandal resistant video  
door station, flush mount

### Door station for GT-2C



**GT-D**  
Audio only door  
station, surface mount

### Video door station for GT-MKB-N



**JO-DV**  
Vandal resistant  
video door station,  
surface mount



## Option



**GT-RY**  
External signaling  
relay for entrance light,  
external buzzer



**W-DIN11**  
DIN mounting rail  
for GT-BC, GT-VBC, GT-4Z



**AC-10S**  
Access control  
keypad,  
surface mount



**AC-10F**  
Access control  
keypad,  
flush mount



AE7090220B AE7090220G  
AE7090210B AE7090210G  
AIPHONE approved product wire

## Control units

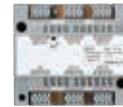
### Control units



**GT-BC**  
Bus control unit



**GT-VBC**  
Video bus control unit,  
expander video control



**GT-4Z**  
4-way video  
junction unit



**GT-1Z**  
Video 1-zone  
divider

### Expanded control units



**GT-BCXB-N**  
Expanded bus control unit



**GT-VBX**  
Expanded video bus control unit

### Multi-building control unit



**GT-MCX**  
Multi-building control unit

### Lift control adaptor

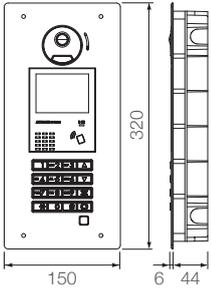


**GTW-LC**  
Lift control adaptor

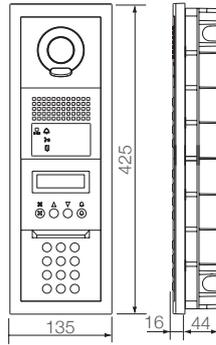
# Unit Dimensions (mm)

## Entrance station

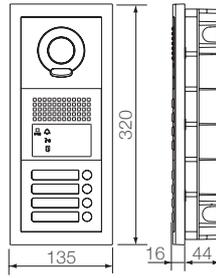
GT-DMB-N (with GF-3B)



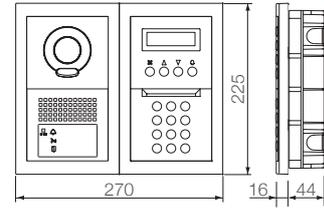
Audio / Video + Name scroll (with GT-4B)



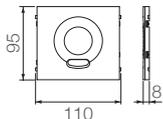
4-call (with GF-3B)



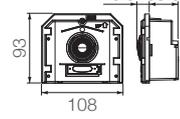
Audio / Video + Name scroll (with GF-2Bx2)



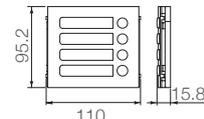
GT-VP



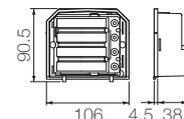
GT-VB



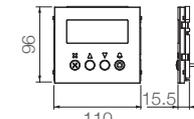
GF-4P



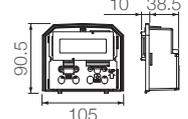
GT-SW



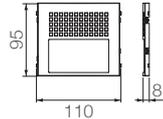
GT-NSP-L



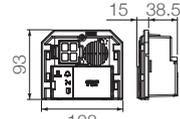
GT-NSB



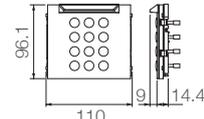
GT-DBP



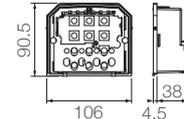
GT-DB / GT-DB-VN



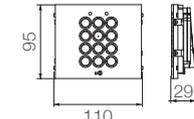
GF-10KP



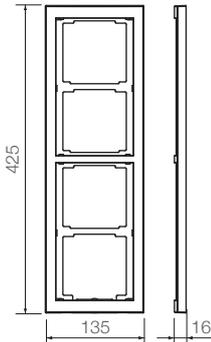
GT-10K



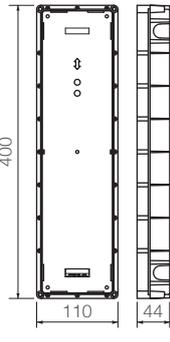
GT-AC



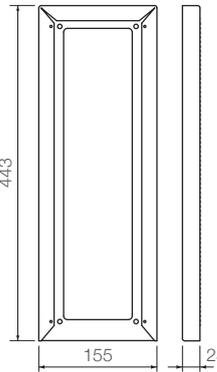
GT-4F



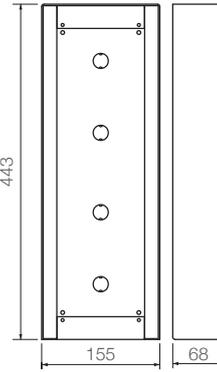
GT-4B



GT-104H

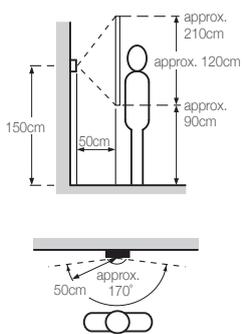


GT-104HB

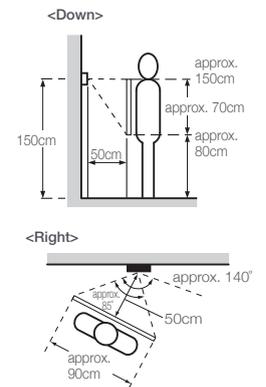
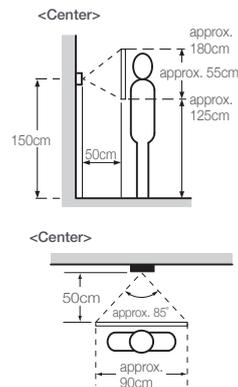
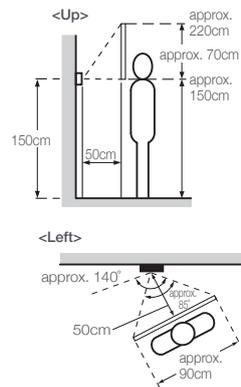


## Image view area

WIDE

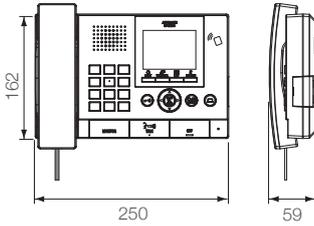


ZOOM & PanTilt



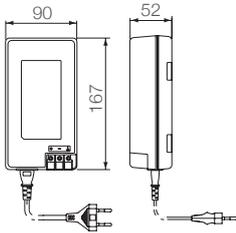
## Guard station

GT-MKB-N



## Power supply

PS-2420S, PS-2420UL,  
PS-2420BF, PS-2420



Type of plug

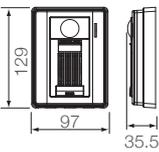
PS-2420S PS-2420UL PS-2420BF



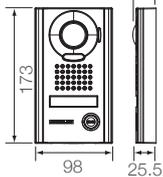
\*AC cord & plug is not included with PS-2420.

## Door station

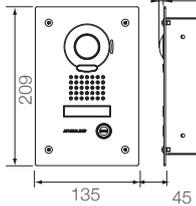
JK-DA



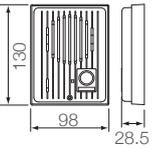
JK-DV



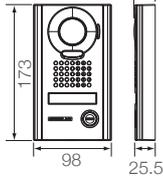
JK-DVF



GT-D

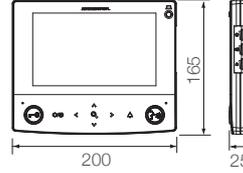


JO-DV

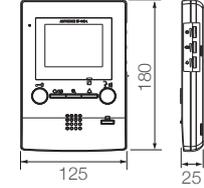


## Tenant station

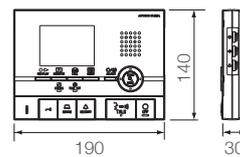
GT-1C7



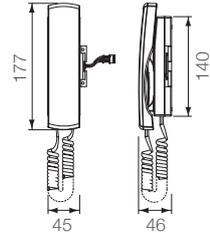
GT-1M3



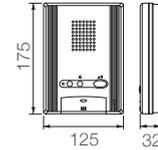
GT-2C, GT-2H



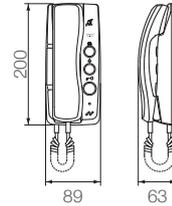
GT-HS



GT-1A

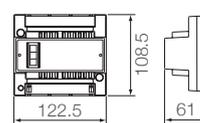


GT-1D

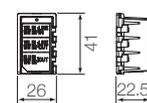


## Control units

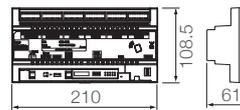
GT-BC, GT-VBC, GT-4Z



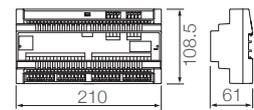
GT-1Z



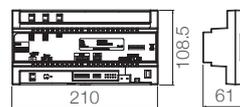
GT-BCXB-N



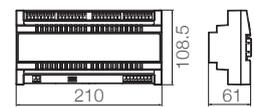
GT-VBX



GT-MCX



GTW-LC

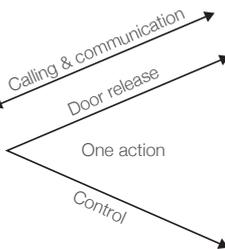


## Lift control adaptor GTW-LC

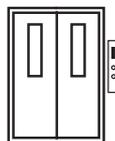
Installing a lift control adaptor gives the option to control lifts from the tenant station.



GT-1C7



Entrance station



Lift

\*GT-BCXB-N is required to use GTW-LC.

\*GTW-LC can be used only in the tenant buildings of a multi building system.

# Hands-Free Color Video Multi-Tenant Building System with Zoom & PanTilt

## Number of system components according to system type

Number of necessary control units at maximum tenant station and common equipment capacity.

	Building / Section type	System type	VIDEO / AUDIO	Max. Tenant station	Max. Entrance stations		Max. Guard station
					 GT-DMB-N	 Module type	 GT-MKB-N
Single building system (Max. 500 units)	Tenant building	Standard	VIDEO	48 *1	5		2
			AUDIO	100 *2	5		2
		Expanded	VIDEO	500 *1	16		4
			AUDIO	500	16		4
Multi building system (Max. 5,000 units)	Tenant building (Max. 24 buildings)	Standard	VIDEO	48 *1	4		1
			AUDIO	100	4		1
		Expanded	VIDEO	500 *1	15		3
			AUDIO	500	15		3
	Main building (Max. 8 buildings)	Standard	VIDEO	×	4	×	1
			AUDIO	×	4	×	1
		Expanded	VIDEO	×	15	×	3
			AUDIO	×	15	×	3

\*Number of stations, units and power supply are per building.

## Examples of multi-building system configurations

	Building / Section type	System type	VIDEO / AUDIO	Tenant station*1	Entrance stations		Guard station
					GT-DMB-N	Module type	GT-MKB-N
Multi building development (P10)	4 Tenant buildings	A:Standard	VIDEO	40	1	—	1
		B:Expanded	VIDEO	400	1	—	1
		C:Expanded	VIDEO	350	1	—	1
		D:Expanded	VIDEO	270	1	—	1
	2 Main buildings	1:Expanded	VIDEO	—	1	—	3
		2:Expanded	VIDEO	—	1	—	3
Total				1060	6	0	10
Large scale residential building (P12)	3 Tenant sections	A:Expanded	VIDEO	400	—	—	—
		B:Expanded	VIDEO	400	—	—	—
		C:Expanded	VIDEO	300	—	—	—
	1 Main sections	Expanded	VIDEO	—	3	—	3
Total				1100	3	0	3
Gated community / Villa (P14)	3 Tenant buildings / sections	A:Standard	VIDEO	30	—	—	—
		B:Expanded	VIDEO	400	1	—	1
		C:Standard	VIDEO	30	—	—	—
	1 Main sections	Standard	VIDEO	—	—	—	1
Total				460	1	0	2

Bus control units		Expanded bus control units		Multi building control unit	Power supply	Lift control adaptor
						
GT-BC	GT-VBC	GT-BCXB-N	GT-VBX	GT-MCX	PS-2420	GTW-LC
1	1 *3	—	—	—	8	×
1	—	—	—	—	8	×
6	6 *3	1	1	—	27	○
6	—	1	—	—	27	○
1	1	—	—	1	7	×
1	—	—	—	1	7	×
6	6	1	1	1	26	○
6	—	1	—	1	26	○
1	1	—	—	1	7	×
1	—	—	—	1	7	×
2	2	1	1	1	22	×
2	—	1	—	1	22	×

\*1: Please use a necessary number of GT-4Z / GT-1Z according to system design needs.

\*2: Up to 100 GT-1D audio tenant stations can be connected when configuring a standard audio only system.

\*3: The number of necessary units varies according to system size.

\*Please follow installation manual when designing your system.

Bus control units		Expanded bus control units		Multi building control unit	Power supply
GT-BC	GT-VBC	GT-BCXB-N	GT-VBX	GT-MCX	PS-2420
1	1	0	0	1	4
5	6	1	1	1	9
5	6	1	1	1	9
4	5	1	1	1	8
2	2	1	1	1	7
2	2	1	1	1	7
19	22	5	5	6	44
5	5	1	1	1	7
5	5	1	1	1	7
4	4	1	1	1	6
2	2	1	1	1	8
16	16	4	4	4	28
1	1	0	0	1	2
5	6	1	1	1	9
1	1	0	0	1	2
1	1	0	0	1	3
8	9	1	1	4	16

\*1: Please use a necessary number of GT-4Z / GT-1Z according to system design needs.

\*Please follow installation manual when designing your system.

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