

# Hands-free Color Video BUS Apartment System

## GH System

The GH system is Hands-free Color video apartment system employing 1pair for Audio & 1pair for video connections. The resident can easily identify visitors by crisp "Color image" together with convenient "Hands-free communication." The GH system configures basically two systems: Standard 48-station, Expanded 500-station systems. Apartment station is selectable out of three types: Color monitor hands-free station (w/optional handset), B&W monitor hands-free station, and hands-free audio station. Entrance station is of a fully modular design with vandal-resistant zinc die-cast panel. The GH system is totally flexible, allowing you to mix-and-match components to create the exact system configuration and features needed for each application.

### Capacity

Standard

**48**

Expanded

**500**

### Apartment station

- Identify visitors by crisp "COLOR" image
- Convenient "Hands-free communication"
- Up to 4 apartment stations can be linked per Residence (max. 2 monitor stations)
- Monitoring an Entrance camera from Apartment monitor station
- Add an external signaling device to Apartment station
- Call tone off at individual station with LED indicator
- Doorbell at individual door
- Auto-Entry (Doctor call)
- User-optional feature using SERVICE button, such as turning on/off light, elevator control, etc.
- Panic call transfer to security guard station

**COLOR**

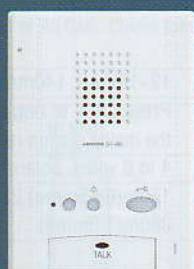


Color monitor hands-free station

**SLEEK DESIGN**  
**Slim & Compact**



B&W monitor hands-free station



Audio hands-free station



Color monitor hands-free station with optional handset

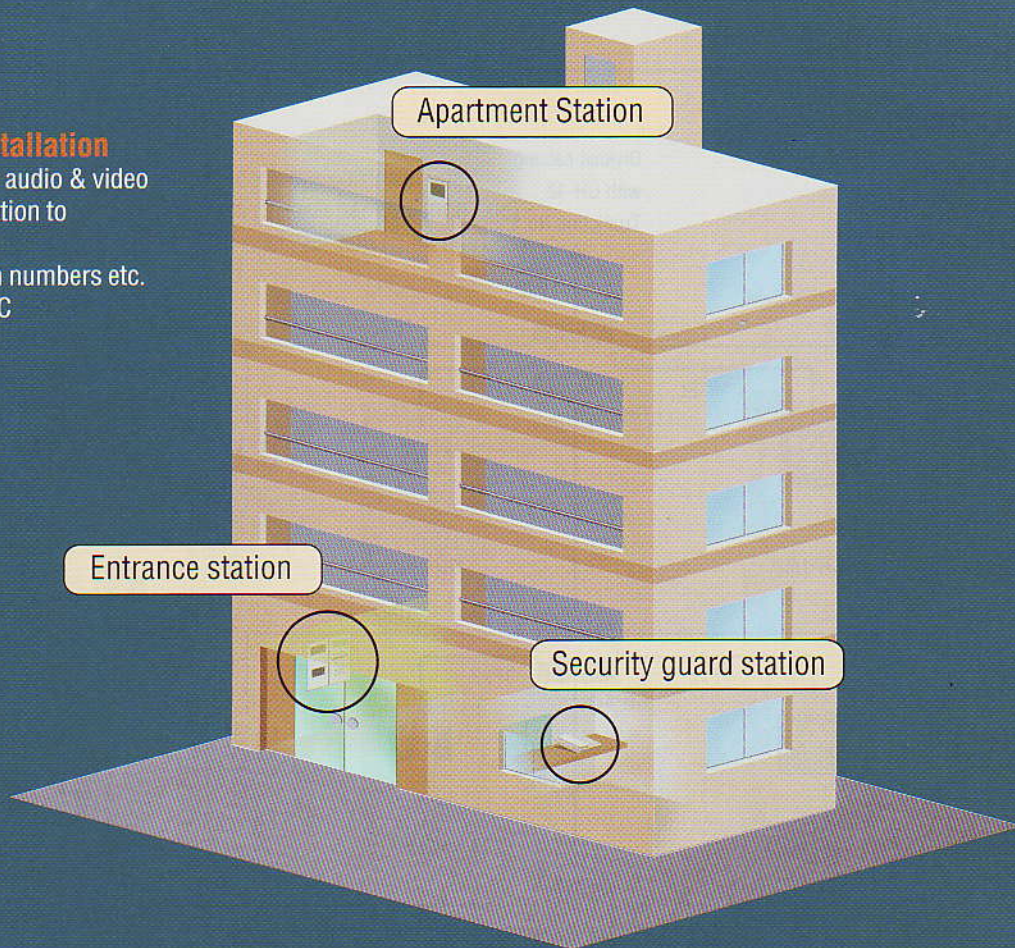


\* The design and specifications are subject to change without notice for improvement.



### Simple and easy installation

- Two single-pair BUS for audio & video
- Easily links Entrance station to Apartment station
- Resident names & room numbers etc. are programmable by PC



### Capacity

Standard

5

Expanded

16

### Entrance station

- Vandal-resistant zinc die-cast panel
- Sleek & compact semi-flush design
- Digital name scrollings
  - Search resident names and room numbers using keypad
  - Customer programmable welcome messages
  - Names & welcome messages are selectable from 5 different languages (English, French, Spanish, German & Dutch)

### Capacity

Standard

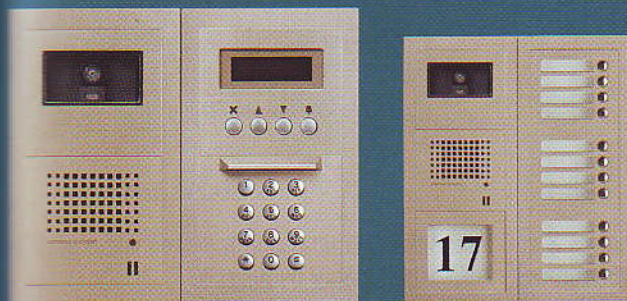
2

Expanded

4

### Security guard station

- Communicate with all residents and Entrance stations
- Receive all Entrance station call-in (Reception mode function)
- Absence call-in memory stored with Callback
- Receive panic calls from Apartment stations





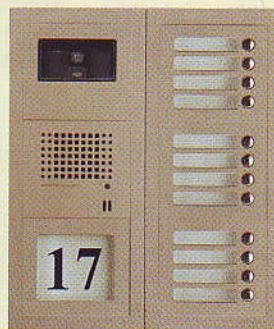
# Hands-free Color Video Bus Apartment System

## Entrance station

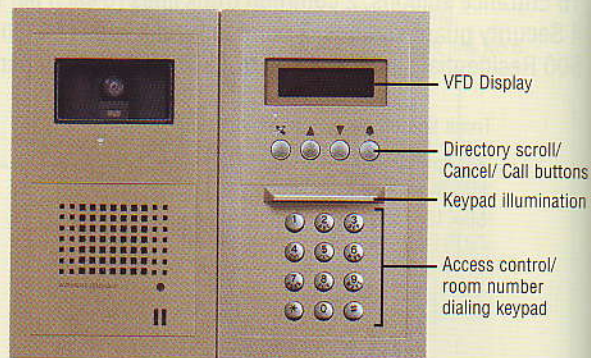
### Direct-select call button



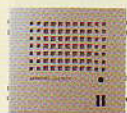
The directory button panels back-lit display illuminates resident's name or unit number



### Digital name scrolling



#### Audio Module



**GH-DP**  
Audio panel



**GH-DA**  
Audio module

#### Digital name scrolling module



**GF-NSP**  
Display module panel



**GH-NS**  
Digital name scroll display module

#### Front frame & back box



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



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

#### Camera Module



**GF-VP**  
Camera panel



**GH-VA**  
Camera module



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

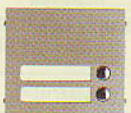


**GH-10K**  
10-key module

#### Call switch Module



**GF-1P**  
1-call panel



**GF-2P**  
2-call panel



**GF-3P**  
3-call panel



**GF-4P**  
4-call panel



**GH-SW**  
Call switch module



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



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

#### Option



**GF-AP**  
Address panel



**GH-AD**  
Address module

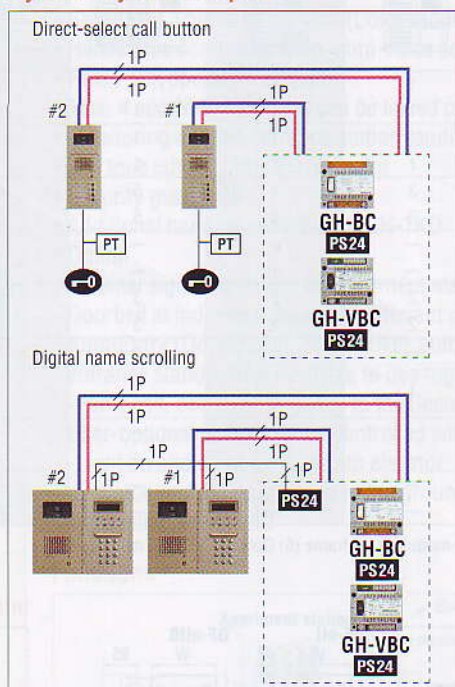


**GF-BP**  
Blank panel



- Searches of resident names and room number using the keypad
- Customer programmable welcome messages can also be shown in 5 different languages (English, French, German, Spanish & Dutch)
- White LED illuminator turns on in low-light conditions

### System layout example



### Specifications (GH-DA, GH-VA)

Wiring	Two single-pair cable common
Type of cable	2-conductor cable solid copper & non-braided, polyethylene insulation, 0.65mm dia.~1.0mm dia.

Mounting	Box and front frame GF-2B,3B and GF-2F,3F
----------	---

Housing	Fire-retardant plastic
---------	------------------------

### Specifications (GH-SW, GH-10K, GH-AD)

Lighting	Yellow LED
Housing	Fire-retardant plastic

### Specifications (GH-NS)

Power source	24V DC, supplied by PS-2410LD, LC
Housing	Fire-retardant plastic

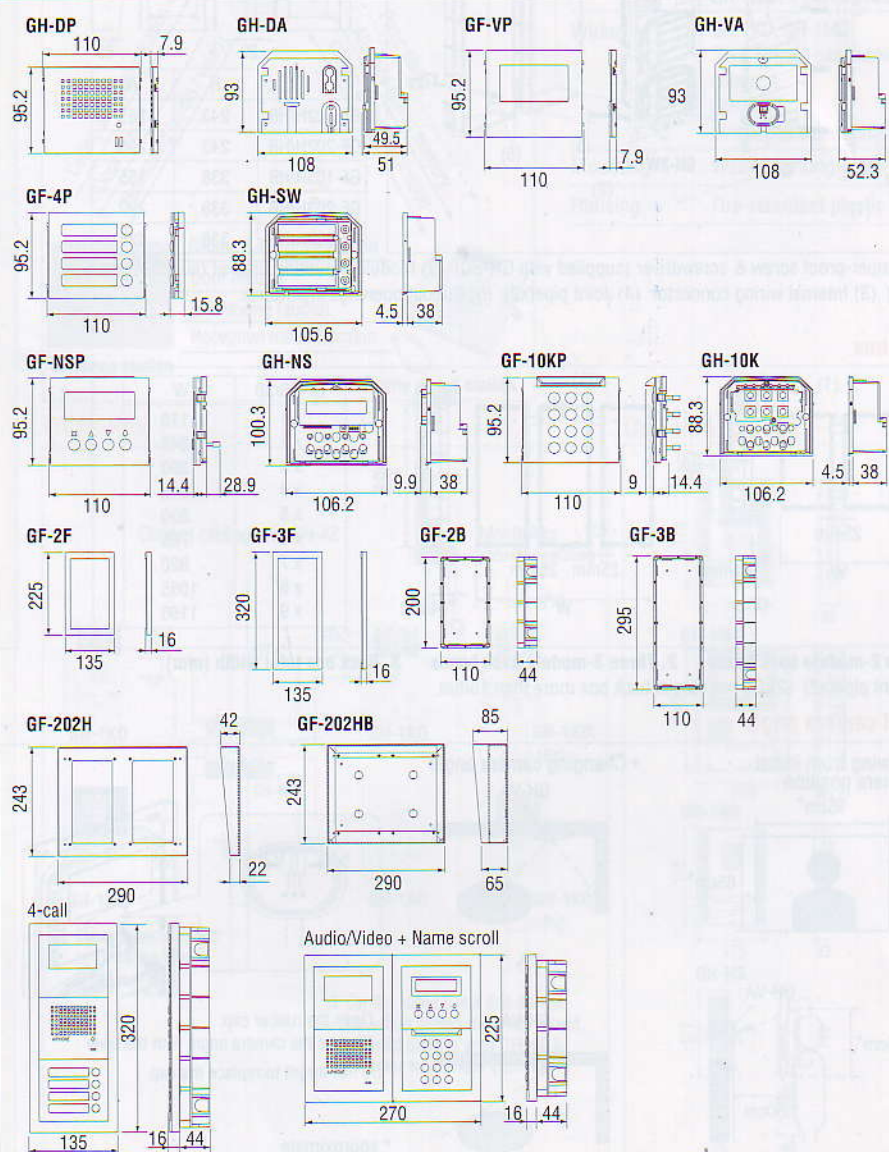


GF-nH  
Rain hood



GF-nHB  
Hooded surface-mount box

### Unit dimensions





## Residential station



**GH-1KD**

(white)

Color monitor apartment station



**GH-1KDS**

(silver)



**GH-1MD**

B&W monitor apartment station



**GH-1AD**

Audio apartment station



**GH-HS**

Option handset for GH-1KD

### Features

- Selectable 3 types of stations (Color monitor, B&W monitor, or Audio only)
- Hands-free communication, auto-voice actuation
- Press-talk operation available
- Max. 4 apartment stations can be linked per Residence (max. 2 monitor stations)
- Monitoring a Video entrance station (audio & video)
- Call tone cutout with LED indicator
- Security guard call
- Additional handset available for GH-1KD
- Option

External signaling device to Apartment station (w/GH-RY)

Doorbell at individual door with different call tone

Auto-Entry (Doctor call), door strikes automatically opens by pressing the Call button at the entrance station. (Not available to use together with entrance light feature)

-Panic call, call an Emergency to the Security guard station(s) by panic call button

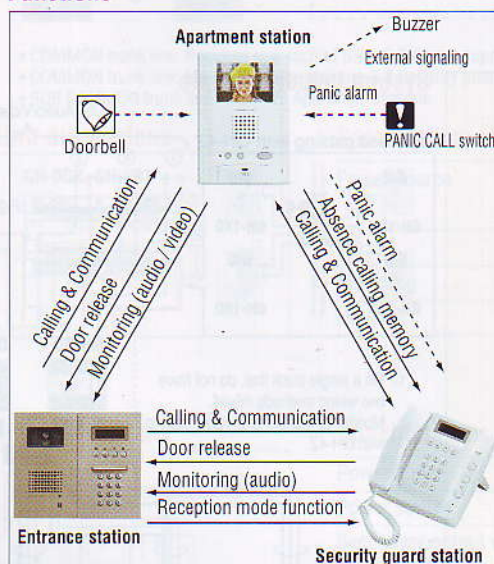
User-optional device can be controlled with SERVICE button, such as

-Light on and off at entry way to elevator

-Elevator control, goes down to the ground floor or up to resident floor

Not available GH-1MD

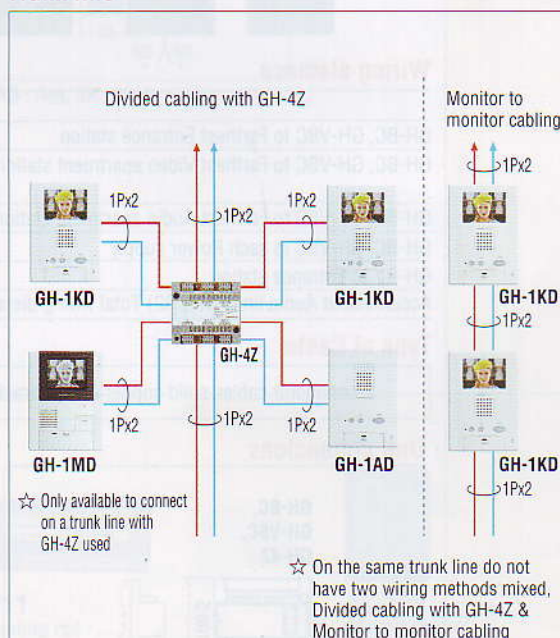
### Functions



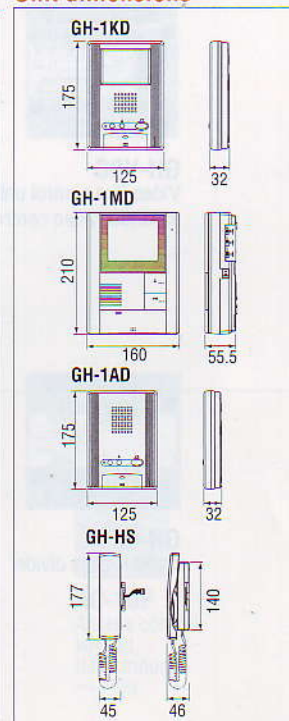
### Specifications (GH-1KD, GH-1MD, GH-1AD)

Power source	24V DC, supplied from Bus control units, GH-BC & GH-VBC
Video monitor	GH-1KD: 3.5 inch color LCD GH-1MD: 4 inch B&W CRT
Wiring	GH-1KD, GH-1MD: Two Single-pair cables common GH-1AD: Single-pair cable common
Mounting	Wall-mounting only
Housing	Fire-retardant plastic

### Trunk line



### Unit dimensions





# Hands-free Color Video Bus Apartment System

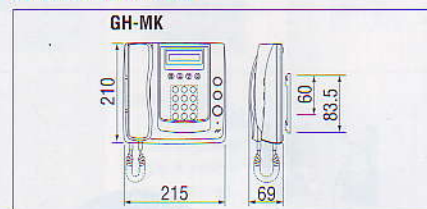
## Security guard station



### Features

- Call to residential station
- Digital display shows name of resident & room number
- Monitoring a Video entrance station (audio)
- Receive all Entrance station call-ins (Reception mode function)
- Absence call-in memory stored with Callback
- Option  
Doorbell at door with different call tone  
User optional device can be controlled with SERVICE button, such as  
-light on and off at entry way to elevator
- Receive a Panic call from apartment station

### Unit dimensions



### Specifications (GH-MK)

Power source	24V DC, supplied by PS-2410LD, PS-2410LC
VFD display	Max. 16 letters for names; English, French, German, Spanish & Dutch
Wiring	2 single-pair cables
Type of cable	2-conductor cable solid copper & non-braided, polyethylene insulation, 0.65mm dia.~1.0mm dia.
Mounting	Wall-mounting or Desk-top mounting on GFW-S
Housing	Fire-retardant plastic

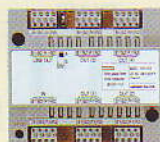
## Control units



**GH-BC**  
Bus control unit

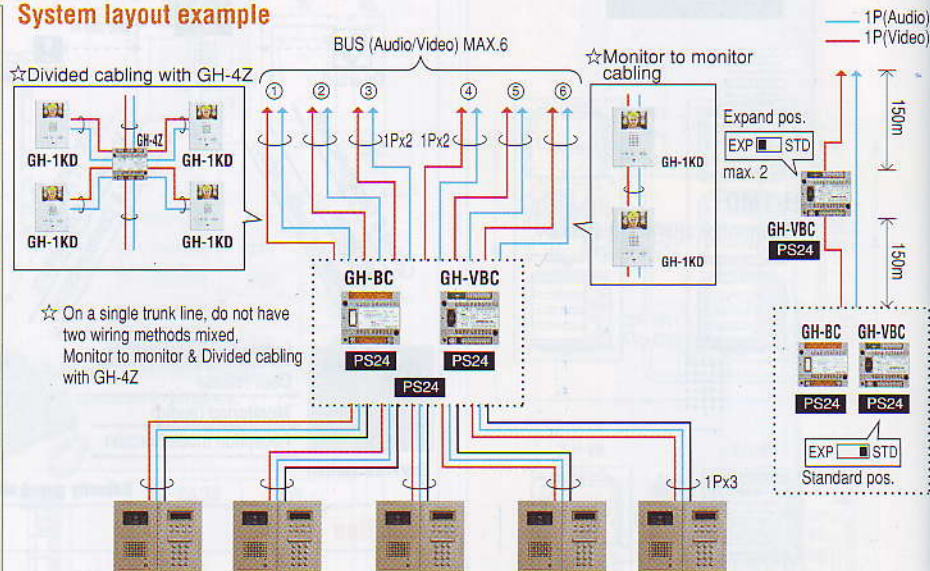


**GH-VBC**  
Video Bus control unit,  
expander video control



**GH-4Z**  
Video 4-zone divider

### System layout example



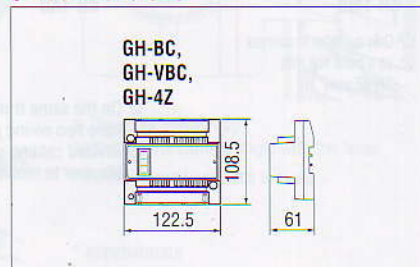
### Wiring distance

	Distance (Diameter of wires)
GH-BC, GH-VBC to Farthest Entrance station	300m(0.8mm)
GH-BC, GH-VBC to Farthest Video apartment station	150m(0.8mm) Expandable 150m with additional GH-VBC & Power supply
GH-BC, GH-VBC to Farthest Audio apartment station	300m(0.8mm)
GH-BC, GH-VBC to each Power supply	5m(0.8mm)
GH-RY to Entrance station	300m(0.8mm)
Accumulated Audio lines (R1, R2) Total wiring distance	2,500m(0.8mm)

### Type of Cable

2-conductor cables solid copper & non-braided, polyethylene insulation, 0.65mm ~ 1.0mm dia.

### Unit dimensions



### Specifications (GH-BC, GH-VBC)

Power source	24V DC, supplied by PS-2410LD, PS-2410DIN
Consumption	900mA.
Wiring	Single-pair cable common
Housing	Fire-retardant plastic

### Specifications (GH-4Z)

Wiring	Two Single-pair cables common
Mounting	DIN rail
Housing	Fire-retardant plastic