AIPHONE

Hands-free Color Audio & Video Entry Security System

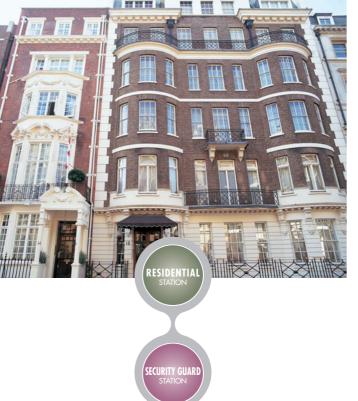


MULTI-UNIT ENTRY SECURITY SYSTEM

GH SERIES

Reliable Security
Variety of System Configurations
Easy Installation & Setup







GH Apartment Building Entry Security System

Provides Simple Security Solutions for All Types of Apartment Complexes.





In today's society, an increasing demand is placed on features of a home. To meet a person's lifestyle, convenience and reliable security are essential features. The GH series offers both within a single system.

Aiphone's GH Series offers convenience, provides high performance security and can adapt to almost any type of building. Our standard system accommodates up to 48 residents and the expanded up to 500. Operating on just two to four wires and programmed with intuitive software installation is always quick and easy.

Choosing AIPHONE gives peace of mind to all residents.









Entrance Station



Security Guard Station



RESIDENTIAL STATION



Color Monitor Means More Security!

Aiphone's Video Entry Security System is now available with Hands-free full color monitors. Residents can screen visitors in high resolution color.

> Select from five unit styles



GH-1KD Hands-free Color Monitor (white)



GH-1KDS Hands-free Color Monitor (silver)



GH-1MD Hands-free B&W Monitor

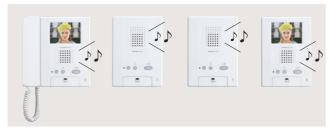


GH-1AD Hands-free Audio Station



> 4 Residential Stations Per Residence

One station may not be enough for a large residence. Four will do it!



Up to two monitor stations. Two more audio stations can be added.

> Entrance Monitoring

With the Residential Monitor Station, the resident can monitor the entrance.

> Simple & Compact

High performance is realized in its simple panel design and amazing slimness (the hands-free color monitor station is only 32 mm thick).

More Sensational Features Available!

• Press-to-talk function

Talk mode can be switched to conventional Press-to-talk mode, if desired. It helps the smooth conversation at noisy environment.

- An external signaling device, as a buzzer or a strobe light, can be added with GH-RY relay. * Requires additional connector cable (not included).
- Service button

Performs a user-optional function: elevator-way light control, elevator control. Not available for GH-1MD (B&W monitor).

- * Requires additional connector cable (not included).
- Panic call transfer to the Security Guard Station
 Emergency call to the Security Guard Station
- Automatic entry (Doctor call) function
 Setting this function automatically unlocks the entrance when a visitor calls a resident.
 - * Requires additional connector cable (not included).

 * Not available to use together with the entrance light function.
- Doorbell at every residence (optional)
- Call tone off LED

Call tone off LED blinks while call tone is muted.



Installer-Friendly Terminal Block

The terminal block can be removed from the station unit. It makes the installation easier and protects the station against theft during the installation. - Available with GH-1KD, GH-1KDS, GH-1AD, and GH-MK.



SIDENTI **ENTRANCE**

ENTRANCE STATION





> 2 Styles to Choose From

Select from the Digital Name Scrolling or Direct-Select Call Button styles. Both designs are compact & modern. Their zinc

die-cast panels are vandalresistant. An entry panel can be configured to an exact number of residents using the wide selection of components available

(See "SYSTEM COMPONENT".)



Direct-select call button

Digital name scrolling

> Sends Clear Color Images Even at Night!

With the white LED illuminator, the camera sends color images to Residential Station monitors at any time. Clear color image is always available with GH-1KD and GH-1KDS color monitor!



Convenient Resident Search

With the Digital Name Scrolling station, visitors can find the residents easily by their names or room number using the digital keypad. Directory search is also available.

* With alpha and numeric characters, Room numbers can be entered (max. 6 characters). Scandinavian added for showing Resident names (max. 16 characters).



Customizable Visitor Welcome Message

Residents enter their own welcome messages, and they are displayed on the VFD panel of the Digital Name Scrolling station. * Max. 160 characters including spaces



> 20 Access Codes

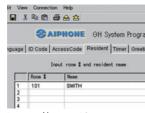
Up to 20 four-digit access codes can be set.

INSTALLATION ADVANTAGE

- > Installation and Setup is Quick and Easy
- Employs 1 pair for audio & 1 pair for video connections
- Easy link to Residential Station from Entrance and Security Guard Stations
- Programmed data can be transferred to other GH-NS and GH-MK's
- For GH-NS and GH-MK, system setup data is programmable on your PC Setup tool software is supported in 5 different languages (English, French, German, Spanish and Dutch).



1 pair for audio & 1 pair for video



SIDENTI SECURITY GUARD







SECURITY GUARD STATION

> Answer for High Security Needs: Reception Mode

Using this function, all Entrance Station calls are automatically transferred to the Security Guard Station, giving the Security guard the ability to screen visitors.



> Up to 20 Missed Calls are Recorded.

Records missed calls made from Residential Stations. To callback, display the resident's name and room number recorded, and then press the Call button. It's quick and easy.



Call Another Security Guard Station

The Security Guard Station can make a call not only to Residential Stations and Entrance Stations, but also to another Security Guard Station. Up to two Security Guard Stations can be linked per common line.

> Other Features

- Receives panic call from Residential Stations
- Optional doorbell at security/reception room available
- Service button

Performs a user-optional function (elevator-way light control, etc.) * Requires additional connector cable (not included).

- An external signaling device, such as Buzzer, can be added with GH-RY relay. * Requires additional connector cable (not included).
- Both wall and desk-top installations available





EXPANDED SYSTEM ADVANTAGE

> Operates Up to 16 Entrance Stations, 4 Security Guard Stations, and 500 Residential Stations: Ideal for Large Apartment Complexes!

The GH series can accommodate large complexes with underground parking, complex building layouts, and many residents. It provides two Communication (talk and video) paths*, one per Common-Sub trunk. Choose the installation configuration that best suits your application. The design flexibility and capacity of the GH makes it suitable for all multi-unit applications, large and small.

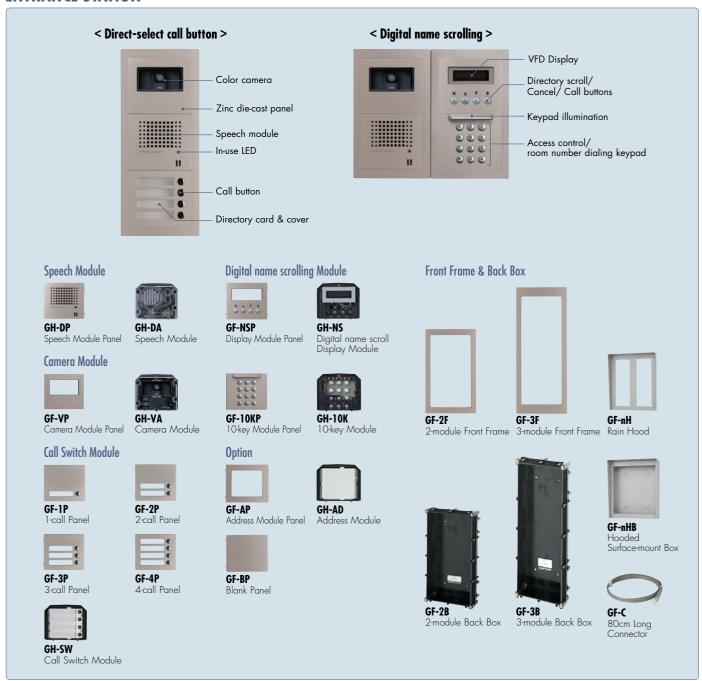
* Communication paths are subject to installation requirements. See page 10 for more details.

Two communication paths available <1> < 2 > SUB 1 SUB 2 unication

COMMON 2 COMMON 1

SYSTEM COMPONENT

ENTRANCE STATION

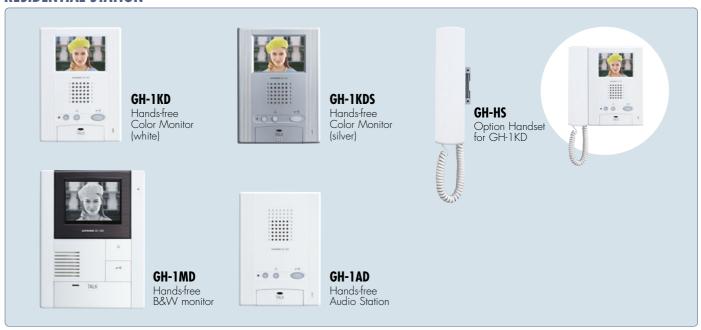


ENTRANCE STATION COMPONENTS

Nu	mber of calling button	4.	8.	12.	16.	20.	24.	25.~48.	GH-NS, GF-10K
									8000
(1)	GH-VA / GF-VP	1/1	1/1	1/1	1/1	1 / 1	1/1	For more than	1 / 1
(2)	GH-DA / GH-DP	1 / 1	1/1	1 / 1	1/1	1 / 1	1/1	7 × GH-SW, install additional Power Supply & special device required. Contact local AIPHONE distributor.	1 / 1
(3)	GH-SW / GF-4P	1/1	2/2	3/3	4/4	5/5	6/6		-
(4)	GF-2 F/ GF-2B	_	2/2	_	_	_	_		2/2
(5)	GF-3F / GF-3B	1/1	_	2/2	2/2	3/3	3/3		_
141	GF-BP	_	_	_	_	1	1		_
(6)	GH-AD / GF-AP	_	_	1 / 1	_	1/1	_		_
(7)	GH-NS / GF-NSP	_	_	_	_	_	_		1 / 1
(/)	GH-10K / GF-10KP	_	_	_	_	_	_		1 / 1

⁽¹⁾ Camera (2) Speech (3) Call Switch (4) 2-module Front Frame (5) 3-module Front Frame (6) Option (7) Digital name scroll

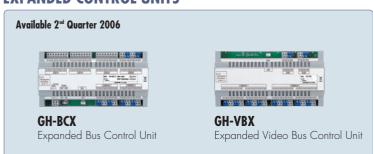
RESIDENTIAL STATION



SECURITY GUARD STATION



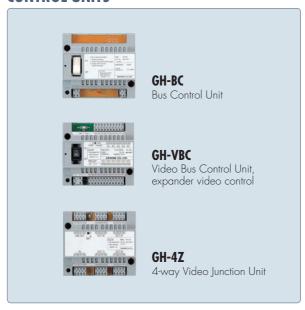
EXPANDED CONTROL UNITS



OPTION



CONTROL UNITS



POWER SUPPLY



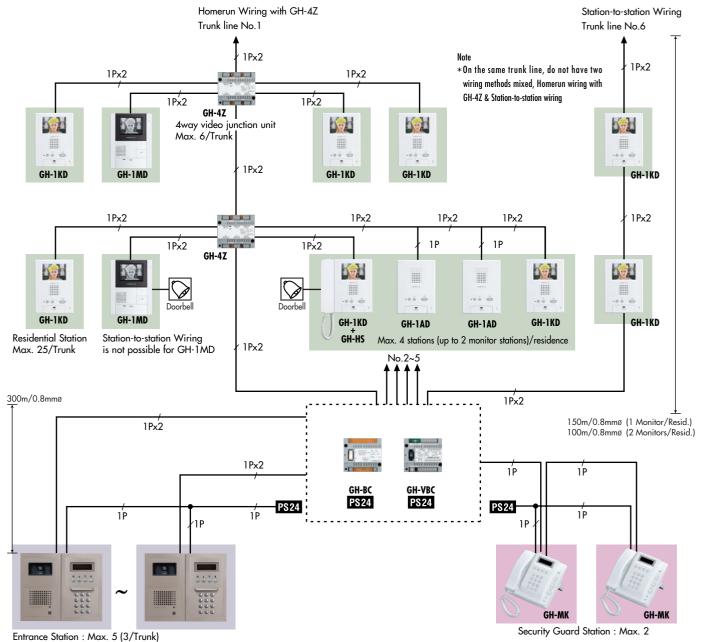
SYSTEM CONFIGURATION







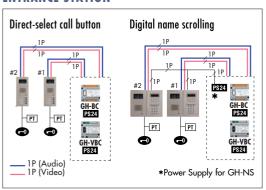


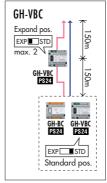


Wiring distance

•			
	0.65mmø	0.8mmø	1.0mmø
GH-BC to Distribution point	-	5m	_
Distribution point to Entrance Station	-	300m	_
Distribution point to GH-MK	-	300m	_
Distribution point to farthest GH-1AD(Audio line)	_	300m	_
GH-VBC to farthest Monitor (Video line) 1 Monitor/Resid.	100m	150m	_
GH-VBC to farthest Monitor (Video line) 2 Monitors/Resid.	50m	100m	150m
GH-VBC (STD) to GH-VBC (EXP)	100m	150m	_
GH-BC/VBC to each Power Supply	_	5m	5m
GH-NS to Power Supply	-	300m	300m
GH-MK to Power Supply	_	300m	300m
Accumulated total wiring, all stations	_	2,500m	_

ENTRANCE STATION



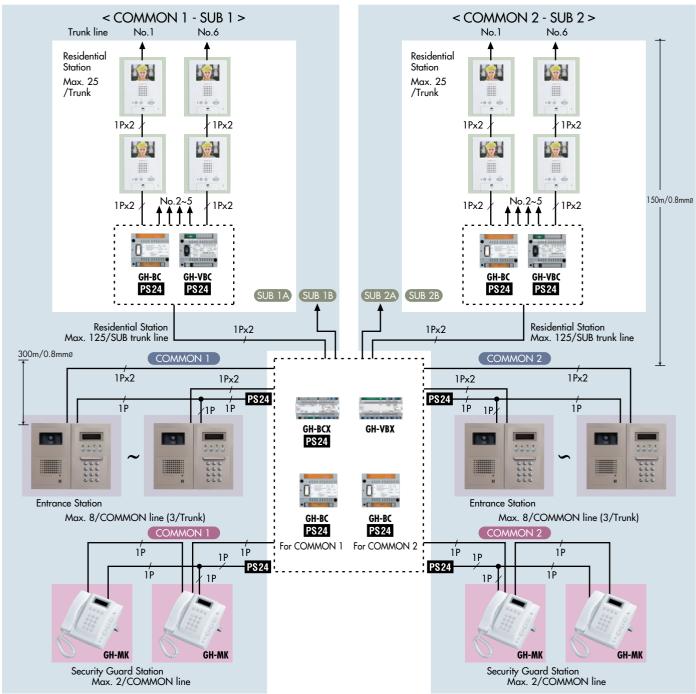


EXPANDED SYSTEM









Wiring distance

g				
	0.65mmø	0.8mmø	1.0mmø	
GH-BCX to GH-BC	_	300m	_	
GH-VBX to GH-VBC	_	150m	-	
GH-BCX/VBX to Entrance Station	_	300m	_	
GH-BCX to farthest GH-1AD(Audio line)	_	300m	_	
GH-VBX to farthest Monitor (Video line) 1 Monitor/Resid.	100m	150m	_	
GH-VBC to farthest Monitor (Video line) 2 Monitors/Resid.	50m	100m	150m	
Accumulated total per COMMON	_	2,500m	_	
Accumulated total per SUB	_	2,500m	-	

Communication (talk and video) paths:

Communication paths on GHBCX and GHVBX are identified as "COMMON 1" and "COMMON 2". Each related COMMON-SUB trunk has its own communication path that can be used within itself for communication between Entrance and Resident. Crossover to the other trunk is possible, but this will occupy both talk and video paths. Also Securitity Guard communication occupies an entire system.



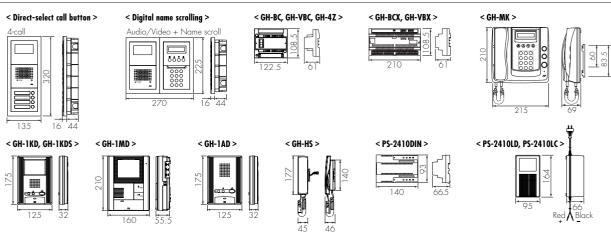




■ COMPARISON BETWEEN GH SYSTEM AND GF SYSTEM

	GH system	GF system	
Total Residential Station	Standard: 48 stations. Expanded: 500 stations	250 stations	
Number of Residential Stations within a Residence	Up to 4 stations (up to 2 monitors)	Up to 2 stations	
Total Entrance Station	Standard: 5 stations. Expanded: 16 stations	5 stations	
Total Security Guard Station	Standard: 2 stations. Expanded: 4 stations	2 stations	
Wiring distance Entrance Station - Video Bus Control	300m	100m	
Talk & Video path	Standard: Single channel, non-open. Expanded: Single channel in the same common-sub line	Single channel, non-open	
Video Monitor	GH-1KD, GH-1KDS: 3.5 inch Color LCD. GH-1MD: 4 inch B&W CRT	4 inch B&W CRT	
Type of Communication	Hands-free, auto voice actuation (via Optional handset) or press-to-talk communication	Full-duplex with handset	
Back light for GH-NS & GH-MK	Vacuum Fluorescence Display	LCD with LED backlight	
Reception mode	Available	Not available	
Monitoring Entrance	Available from Residential Station & *Security Guard Station *(requires modification)	Not available	
Absence call memory	Available, stored up to 20 calls	Not available	
Additional call signaling device at Residential Station	Available w/GH-RY relay	Not available	
Link programming	Program either one Entrance Station or Security Guard Station, and transfers link data to other	Program each Entrance Station/Security Guard Station one by one	
Save Link information to PC	Available. Upload & download together with Resident information	Not available	
Programmable room number displaying on GH-NS & GH-MK	From 1 to 6 digit. Numeral & Alphabet	3 or 4 digit. Numeral only	

UNIT DIMENSIONS



SPECIFICATIONS

Power supply : DC 24V supplied by PS-2410LD, PS-2410DD, PS-2410DDN (for GH-BC, GH-VBC, GH-NS/10K, GH-MK, GH-BCX)

Current consumption: GH-BC: 0.9 A, GH-VBC: 0.9 A, GH-NS: 0.13 A, GH-MK: 0.18 A, GH-BCX: 0.35 A

Call tone : There are three different types of call tones from Entrance Station, Security Guard Station and Doorbell.

Talk & Video path : Single channel, non-open

Communication

: Hands-free, voice-actuated communication (or press-to-talk communication)

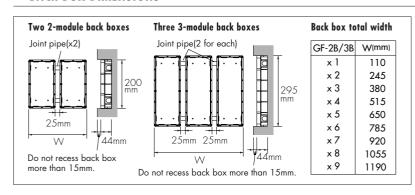
: Connecting terminals: Between ELM - ELC (N/O) and ELB - ELC (N/C)

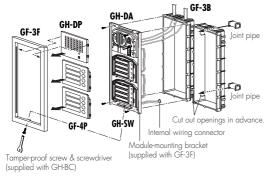
Specifications: less than 4A (resistance load), AC/DC 24V, dry closure contact

Wiring : Two single-pair cables

Type of cables : Pair cable (solid wire not stranded), polyethylene insulated, diameter 0.65 to 1.0 mm

BACK BOX DIMENSIONS





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