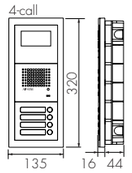
COMPARISON BETWEEN GH SYSTEM AND GF SYSTEM

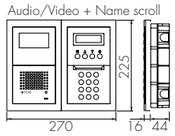
	GH system	GF system
Total Residential Station	Standard: 48 stations. Expanded: 500 stations	250 stations
Number of Residential Stations within a Residence	Up to 4 stations (up to 2 monitors)	Up to 2 stations
Total Entrance Station	Standard: 5 stations. Expanded: 16 stations	5 stations
Total Security 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

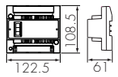
< Direct-select call button >



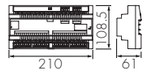
< Digital name scrolling >



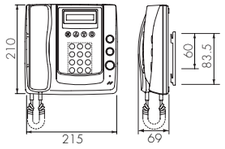
< GH-BC, GH-VBC, GH-4Z >



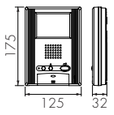
< GH-BCX, GH-VBX >



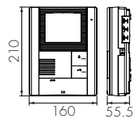
< GH-MK >



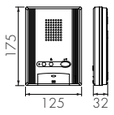
< GH-1KD, GH-1KDS >



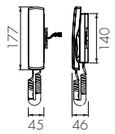
< GH-1MD >



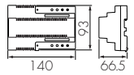
< GH-1AD >



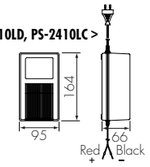
< GH-HS >



< PS-2410DIN >



< PS-2410LD, PS-2410LC >

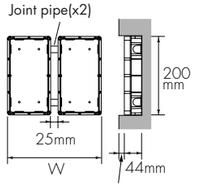


SPECIFICATIONS

Power supply	: DC 24V supplied by PS-2410LC, PS-2410LD, PS-2410DIN (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)
Door release	: 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

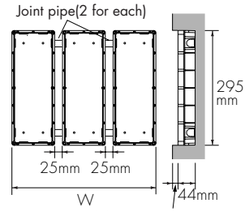
BACK BOX DIMENSIONS

Two 2-module back boxes



Do not recess back box more than 15mm.

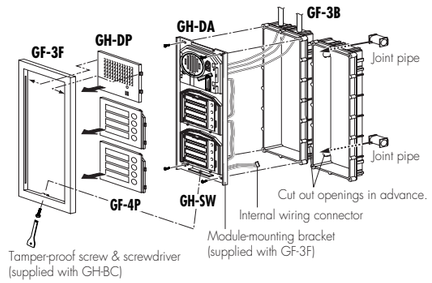
Three 3-module back boxes



Do not recess back box more than 15mm.

Back box total width

GF-2B/3B	W(mm)
x 1	110
x 2	245
x 3	380
x 4	515
x 5	650
x 6	785
x 7	920
x 8	1055
x 9	1190



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Providing Peace of Mind

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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





RESIDENTIAL STATION

SECURITY GUARD STATION

ENTRANCE STATION

GH Apartment Building Entry Security System

Provides Simple Security Solutions for All Types of Apartment Complexes.





MULTI-UNIT ENTRY SECURITY SYSTEM

GH SERIES



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.



Residential Station



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



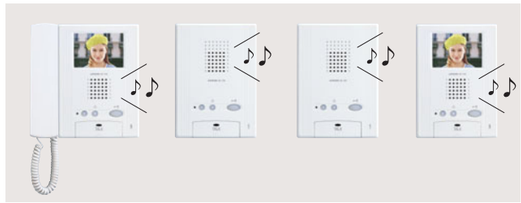
GH-1AD
Hands-free Audio Station



GH-1KD with GH-HS
Hands-free Color Monitor with Optional Handset (white)

> 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.





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 vandal-resistant. An entry panel can be configured to an exact number of residents using the wide selection of components available.
(See "SYSTEM COMPONENT".)



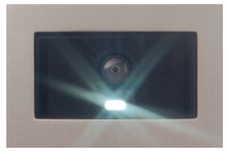
Direct-select call button



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



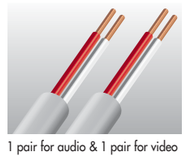
> 20 Access Codes

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

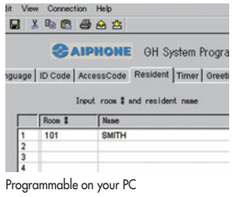
INSTALLATION ADVANTAGE

> 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



Programmable on your PC



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



GH-MK



GH-MK
with desk-top stand

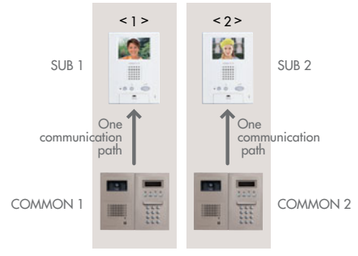
EXPANDED SYSTEM ADVANTAGE

> 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



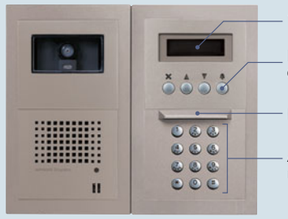
SYSTEM COMPONENT

ENTRANCE STATION

< Direct-select call button >



< Digital name scrolling >



Speech Module



GH-DP
Speech Module Panel



GH-DA
Speech Module

Digital name scrolling Module



GF-NSP
Display Module Panel



GH-NS
Digital name scroll
Display Module

Camera Module



GF-VP
Camera Module Panel



GH-VA
Camera Module



GF-10KP
10-key Module Panel



GH-10K
10-key Module

Front Frame & Back Box



GF-2F
2-module Front Frame



GF-3F
3-module Front Frame



GF-nH
Rain Hood

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

Option

GF-AP
Address Module Panel

GH-AD
Address Module



GF-BP
Blank Panel



GF-2B
2-module Back Box



GF-3B
3-module Back Box

GF-nHB
Hooded
Surface-mount Box

GF-C
80cm Long
Connector

ENTRANCE STATION COMPONENTS

Number of calling button		4.	8.	12.	16.	20.	24.	25.~48.	GH-NS, GF-10K
(1)	GH-VA / GF-VP	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	For more than 7 X GH-SW, install additional Power Supply & special device required. Contact local AIPHONE distributor.	1 / 1
(2)	GH-DA / GH-DP	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1		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		–
(6)	GF-BP	–	–	–	–	1	1		–
	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



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



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



GH-HS
Option Handset
for GH-1KD





GH-1MD
Hands-free
B&W monitor

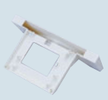


GH-1AD
Hands-free
Audio Station

SECURITY GUARD STATION



GH-MK
Security Guard
Station



GFW-S
Desk-top Stand

EXPANDED CONTROL UNITS

Available 2nd Quarter 2006



GH-BCX
Expanded Bus Control Unit



GH-VBX
Expanded Video Bus Control Unit

OPTION



GH-RY
External Signaling Relay
entrance light,
external buzzer



W-DIN11
DIN Mounting Rail
for GH-BC, GH-VBC, GH-4Z

CONTROL UNITS



GH-BC
Bus Control Unit



GH-VBC
Video Bus Control Unit,
expander video control



GH-4Z
4-way Video Junction Unit

POWER SUPPLY

PS-2410DIN
Power Supply
230V AC

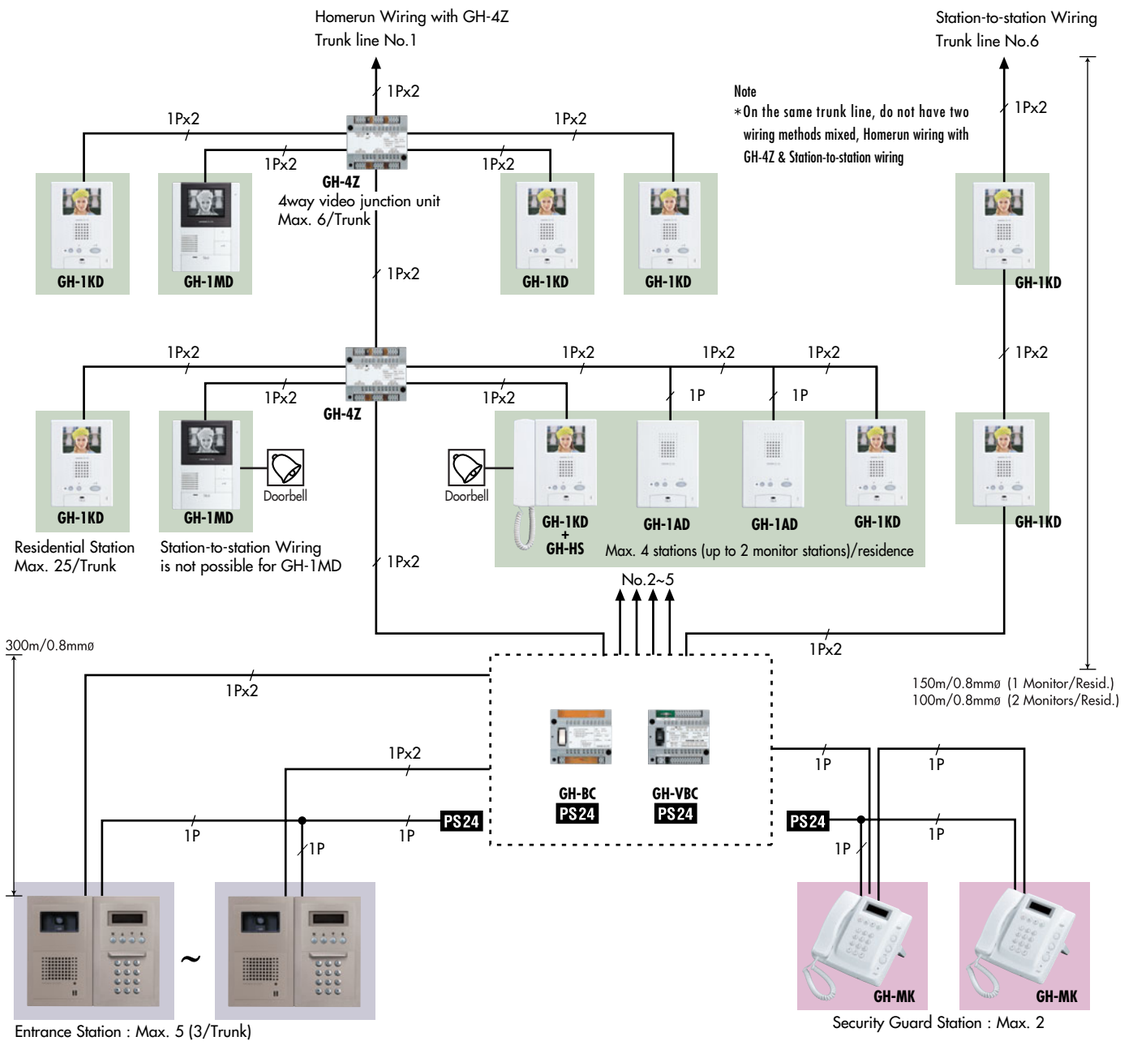
PS-2410LD
Power Supply
220 - 240V AC

PS-2410LC
Power Supply
120V AC

SYSTEM CONFIGURATION

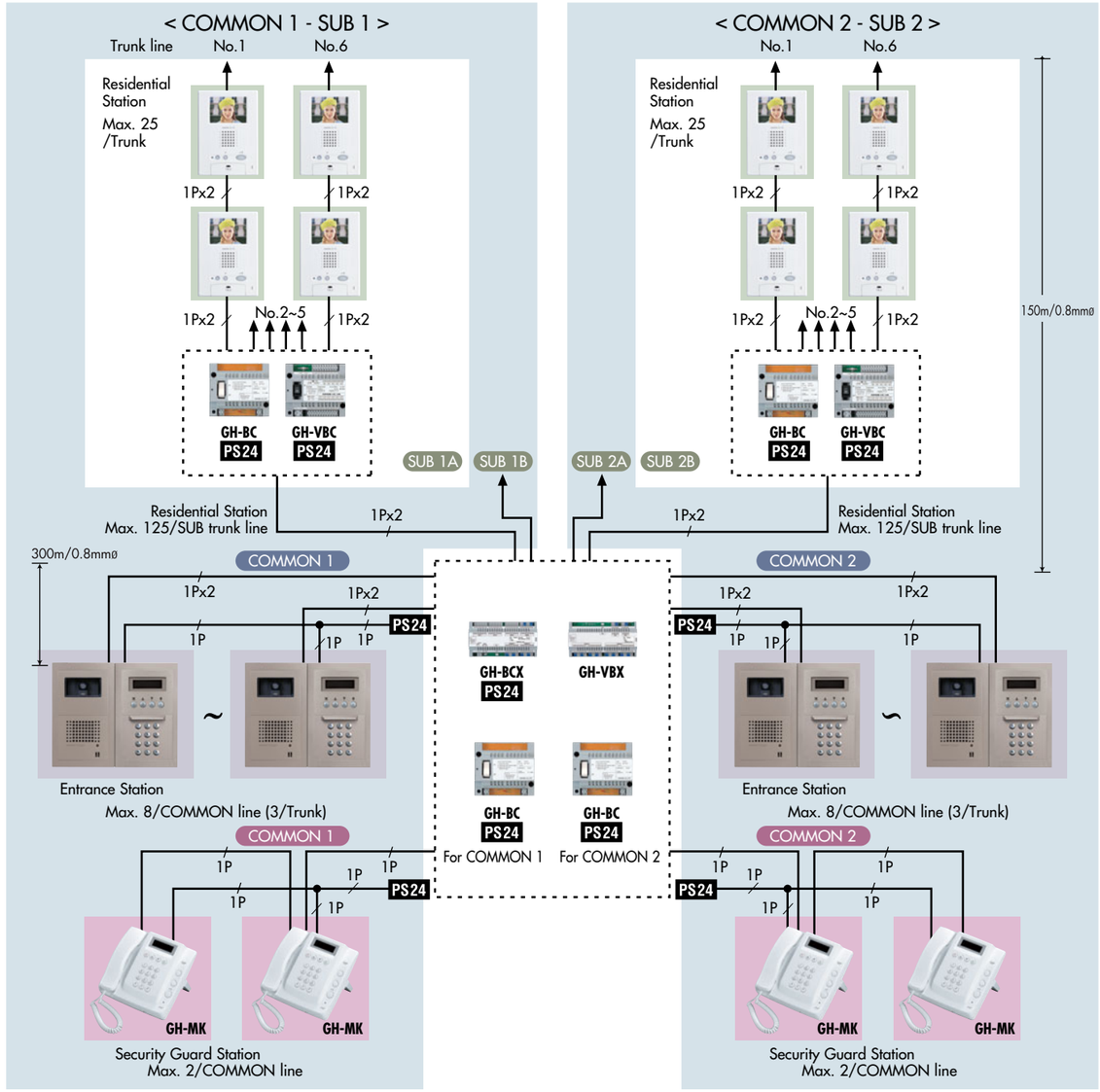
STANDARD SYSTEM

5 Entrance Stations | 2 Security Guard Stations | 48 Residential Stations



EXPANDED SYSTEM

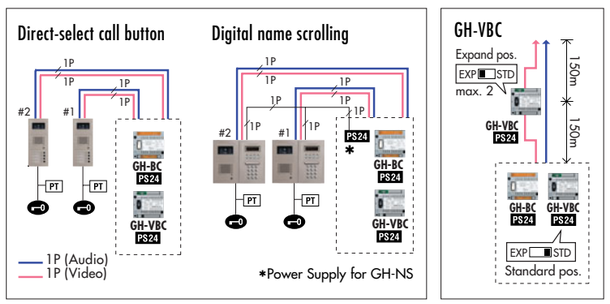
16 Entrance Stations | 4 Security Guard Stations | 500 Residential Stations



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



Wiring distance

	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 GH-BCX and GH-VBX 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.

