GF-BC.E MANUAL E TH 0902 D CAIPHONE®

TWO-WIRE BUS APARTMENT SYSTEM

GF SYSTEM

INSTALLATION MANUAL



SYSTEM COMPONENTS





MOUNTING ENTRANCE STATION



MOUNTING ENTRANCE STATION

Interconnecting Modules with Plug-in Connectors

1 Remove the terminal cover.



2 Plug the wires into connectors between the Modules.



3 Plug the wires into connectors between the Modules.



4 Pass the connecting wire through joint pipe (preopened), and plug to CN1 of Call SW. of next row.



5 Attach the terminal cover back to place.





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MOUNTING

• GF-BC, GF-VBC



• GF-1D



• GF-1MD



MOUNTING & WIRING

Audio communication system

PT: AC transformer

NP: Non-polarized





Audio/video communication system





SETTING UP SYSTEM

Prior to setting up GF system, make sure all the stations are installed and wired in proper manner. Leave the front frame & module panels unattached.



Step 4 When completed, press PROGRAM switch on GF-DA/A Audio module again to finish the programming.



Do not forget to replace the rubber cap.

To correct wrong setting



Keep pressing a call button to clear until a continuous tone is heard. (Consecutively, operate same way for next call button, if Following Step 2, reset on apartment station(s) that have been cleared.

For 2-station apartment

 Clearing a call button cancels programming for two stations, correctly set or not. Individually reprogram both stations.

Instructions

- Before programming, connect Camera module, if included, with the other modules.
 When Digital name
 - scrolling module is included, be sure to program Residence info (Names & Room #) in advance.

ADJUSTING

Adjust camera angle



Fill in name & address; Peel off film



Adjust, using the mounting gauge



ECHNICAL PRECAUTIONS

Temperature	GF Entrance station: −10°C ~ +60°C (+14°F ~ +140°F). GF-BC: 0°C ~ +40°C (+32°F ~ +104°F). GF-1D: 0°C ~ +40°C (+32°F ~ +104°F).											
Mounting location	Do not install the Entrance station in places where a caller is strongly backlit (bright background), or where sunlight or strong light comes into the camera lens directly.											
Rain hood (option)	GF Entrance station is weather-resistant, but for best results, it should be protected from direct weather conditions. Install a rain hood (GF-H) to protect it from direct rainfall.											
Set up after replacement	In case an apartment station is replaced after all the wiring is done, turn the power switch off and back on again on GF-BC. Then reprogram that apartment station only.											
Operations	 At end of communication, hang up the handset on cradle. If a handset is off the hook, call tone will still ring at two stations. Momentarily hang up handset, and resume communication. While an apartment station is being called from an entrance station, a call from the doorbell will not be heard. 											
Cleaning	 Clean GF equipment with a soft cloth dampened with neutral household cleanser. Never use any abrasive cleaner or cloth. Do not spray high-pressure water on Entrance station. 											
	SPECIFICATIONS											

• Current consumption:GF-BC:• Call-in tone:Two typ• Talk path:Single of• Communication:Simulta• Wiring:2 x 2-w• Type of Cable:2-condu	DC 24V (each GF-BC, GF-VBC & GF-NS), supplied by a power supply PS-2410LC or PS-2410LD. GF-BC: 0.9A. GF-VBC: 1.1A. GF-NS: 0.07A. Two types of call tones, one from entrance station, the other from doorbell button, distinguishable. Single channel, non-open. Simultaneous with handset (no calling or communication between apartment stations). 2 x 2-wire cables common. 2-conductor cable solid copper & non-braided, polyethylene insulation, 0.65mm dia. ~ 1.0mm dia. (22AWG ~ 18AWG).										
Wiring distance:						Dimensions & weight					
Diameter of wires		0.8mm	1.0mm	22AWG	20AWG	18AWG		Weight		Weight	
 GF-BC to Distribution point 	-	5m	-	-	16'	-	Models	H x W x D (mm)	(approx.)	H x W x D (inch)	(approx.)
 Distrib. point to Entrance station 	-	300m	-	-	980'	-	• GF-1MD	210 x 215 x 69		8-1/4" x 8-1/2" x 2-3/4"	2.65 lbs.
Distrib. point to GF-1D (farthest)		300m	-	-	980'	-	• GF-1D	200 x 89 x 63	370g	7-7/8" x 3-1/2" x 2-1/2"	0.82 lbs.
GF-VBC to farthest GF-1MD 1 per resid. line	100m	150m	-	330'	500'	-	• GF-BC	108.5 x 122.5 x 61	450g	4-1/4" x 4-13/16" x 2-3/8"	1 lb.
GF-VBC to farthest GF-1MD 2 per resid. line	50m	100m	150m	165'	330'	500'	I • GF-VBC	108.5 x 122.5 x 61	260g	4-1/4" x 4-13/16" x 2-3/8"	0.57 bs.
GF-VBC to Entrance station (GF-VA, Video)	50m	100m	-	165'	330'	-	∙_GF-4Z	108.5 x 122.5 x 61	190g	4-1/4" x 4-13/16" x 2-3/8"	0.42 lbs.
GF-BC/VBC to ea. Power supply		5m	5m	-	16'	16'	Entrance				
GF-NS to Power supply		300m	300m	-	980'	980'	 station 2-module, 2-row panel 	005 x 070 x 10	_		
MAW-B to Entrance station		300m	-	-	980'	-		225 x 270 x 16 (box: 44 in recess)	_	8-7/8" x 10-5/8" x 9/16"	
Total wiring distance (R1, R2)		2.5km	-	-	1.5miles	-	• 3-module.	320 x 135 x 16	_	12-1/8" x 4-7/8" x 9/16"	_
• Capacity:				1-row panel	(box: 44 in recess)						

MAW-B to Entrance station	-	300m	-	-	980'	-			
Total wiring distance (R1, R2	-	2.5km	-	-	1.5miles	-			
Capacity:									
 Total station: 	250 resid	dential stations							
 Total monitor station: 	150 GF-1	150 GF-1MD's							
 Entrance station: 	5 (audio or video)								
 Per apartment: 	2 stations (GF-1MD and/or GF-1D)								
Max. station per trunk line:	50 GF-1D's. 25 GF-1MD's. (i.e. via 6 GF-4Z's or monitor-to-monitor wiring).								
Video trunk line:	6 (Video) from GF-VBC.								
Audio trunk line:	Any number (Audio) from distribution point.								
 Max. Entrance station per trunk line: 	Max. 3 Entrance stations (Audio)								

100-call, i.e. 25 pcs GF-SW.

Door release terminals:

EL, EL rated less than 4A (resistance load), AC/DC 24V, for dry closure contact for door release.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful inteference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the

following measures: • Reorient or relocate the receiving antenna. • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. • Increase the separation between the equipment and receiver. • Consult the dealer or an experienced radio/TV technician for help.

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++	WARRANTY	*
++++	Aiphone warrants its products to be free from defects of material and workmanship under normal use and service for a period of one year after delivery to the ultimate user and will repair free of charge or replace at no charge, should it become defective upon which examination shall disclose to be defective and under warranty. Aiphone reserves unto itself the sole right to make the final decision whether there is a defect in materials and/or workmanship; and whether or not the product is within the warranty.	****
++++	This warranty shall not apply to any Aiphone product which has been subject to misuse, neglect, accident, or to use in violation of instructions furnished, nor extended to units which have been repaired or altered outside of the factory. This warranty does not cover batteries or damage caused by batteries used in connection with the unit. This warranty covers bench repairs only, and any repairs must be made at the shop or place designated in writing by Aiphone. Aiphone will not be responsible for any costs incurred involving on site service calls.	+++
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Call button:

