

# OPERATION MANUAL

---

## FA-AUX30 Auxiliary Unit

---

1<sup>st</sup> Edition - Rev.3  
(Version 1.00 or Higher)

# 1Edition Revision History




---

Edit.	Rev.	Date	Description	Section/Page
1	-	2014/01/17	First edition	
1	1	2014/12/15	Factual errors corrected.	
1	2	2015/02/05	Corrected GPI pin assignments.	Sec. 2-3
1	3	2015/06/19	FA-10DCCRU descriptions added	




# Precautions

## Important Safety Warnings




### [Power]

 Caution	Operate unit <b>only</b> at the specified supply voltage.
	Disconnect the power cord via the power plug only. <b>Do not</b> pull on the cable portion.
 Stop	<b>Do not</b> place or drop heavy or sharp-edged objects on the power cord. A damaged cord can cause fire or electrical shock hazards. Regularly check the power cord for excessive wear or damage to avoid possible fire / electrical hazards.


### [Grounding]

 Caution	<b>Ensure</b> the unit is properly grounded at all times to prevent electrical shock.
 Hazard	<b>Do not</b> ground the unit to gas lines, units, or fixtures of an explosive or dangerous nature.
 Caution	<b>Ensure</b> the power cord is firmly plugged into the AC outlet.




### [Operation]

 Hazard	<b>Do not</b> operate the unit under hazardous or potentially explosive atmospheric conditions. Doing so could result in fire, explosion, or other hazardous results.
 MHazard	<b>Do not</b> allow liquids, metal pieces, or other foreign materials to enter the unit. Doing so could result in fire, other hazards, or a unit malfunction.
	If a foreign material does enter the unit, turn the power off and <b>immediately</b> disconnect the power cord. Remove the material and contact an authorized service representative if damage has occurred.


### [Transportation]

 Caution	<b>Handle</b> with care to avoid impact shock during transit, which may cause malfunction. When you need to transport the unit, use the original or suitable alternative packing material.
--	--


## [Circuitry Access]

 Stop	<p><b>Do not</b> remove covers, panels, casing, or access the circuitry with power applied to the unit. Turn the power off and disconnect the power cord prior to removal. Internal servicing / adjustment of unit should only be performed by qualified personnel.</p>
 Stop	<p><b>Do not</b> touch any parts / circuitry with a high heat factor. Capacitors can retain enough electric charge to cause mild to serious shock, even after the power has been disconnected. Capacitors associated with the power supply are especially hazardous.</p>
 Hazard	<p>Unit <b>should not</b> be operated or stored with cover, panels, and / or casing removed. Operating the unit with circuitry exposed could result in electric shock / fire hazards or a unit malfunction.</p>


## [Potential Hazards]

 Caution	<p>If abnormal odors or noises are noticed coming from the unit, immediately turn the power off and disconnect the power cord to avoid potentially hazardous conditions. If problems similar to the above occur, contact an authorized service representative <b>before</b> attempting to operate the unit again.</p>
--	---

## [Rack Mount Brackets, Ground Terminal, and Rubber Feet]

 Caution	<p>To rack-mount or ground the unit, or to install rubber feet, <b>do not</b> use screws or materials other than those supplied. Doing so may cause damage to the internal circuits or components of the unit. If you remove the rubber feet that are attached to the unit, <b>do not</b> reinsert the screws that secure the rubber feet.</p>
---	--

## [Consumables]

 Caution	<p>Consumable items that are used in the unit must be periodically replaced. For further details on which parts are consumables and when they should be replaced, refer to the specifications at the end of the Operation Manual. Since the service life of the consumables varies greatly depending on the environment in which they are used, such items should be replaced at an early date. For details on replacing consumable items, contact your dealer.</p>
--	---

# Upon Receipt

## Unpacking

FA-AUX30 units and their accessories are fully inspected and adjusted prior to shipment. Operation can be performed immediately upon completing all required connections and operational settings.

Check your received items against the packing lists below. Check to ensure no damage has occurred during shipment. If damage has occurred, or items are missing, inform your supplier immediately.

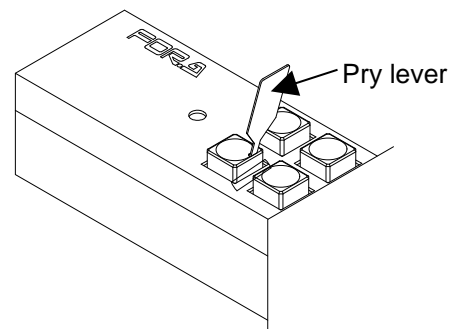
ITEM	QTY	REMARKS
FA-AUX30	1	
Rack Mount Brackets	1 set	EIA standard type
Control Cable	3 sets	For FA-10GPI or FA-10RU/FA-10DCCRU connection (1m)
CD-ROM	1	FA-AUX30 Operation Manual (PDF)
Button Labels	1 set	
Pry tool	1	For button cap removal

## Attaching Button Labels

Use the supplied pry tool and button label.

### ◆ Removing button switches

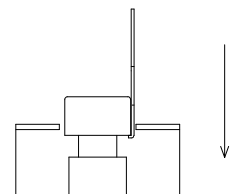
- (1) Slide the pry tool into the opening between a button and front panel casing (with the lip of the tool facing the button).



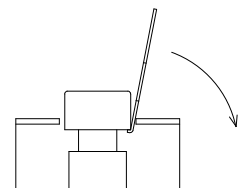
### IMPORTANT

Slide the pry tool to the right or left of a button, not above or below, to prevent damage to the unit.

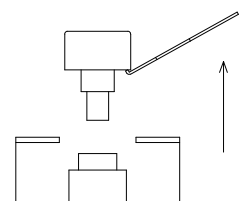
- (2) Wedge the lip of the pry tool under the button.



- (3) Pry the button out.



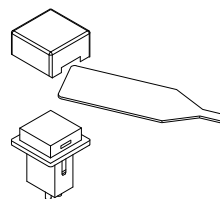
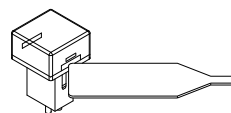
- (4) Completely remove the button.



◆ **Removing Button Caps**

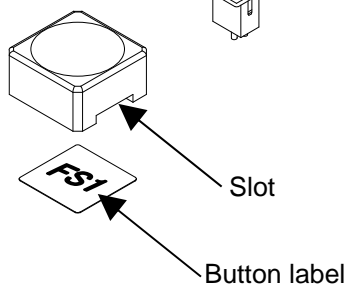
Wedge a corner of the pry tool into a side slot along the bottom of a button cap to remove the cap.

\* If the button cap is firmly attached, and cannot be easily removed, alternately wedge the tool into both side slots to remove the cap.

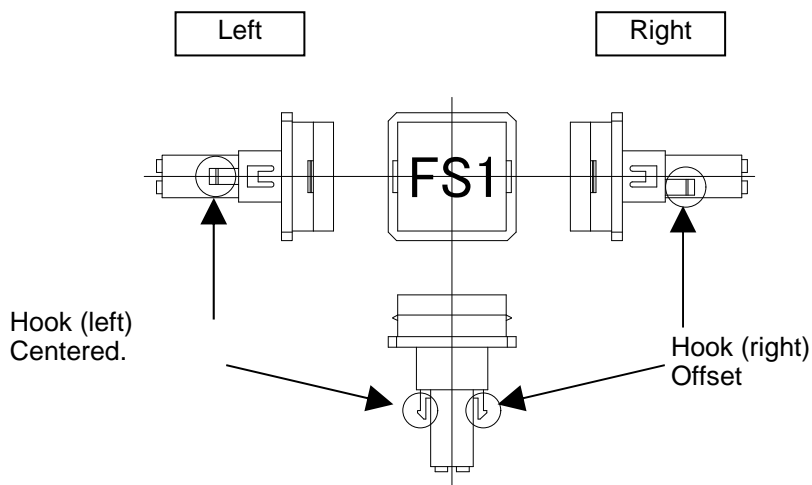
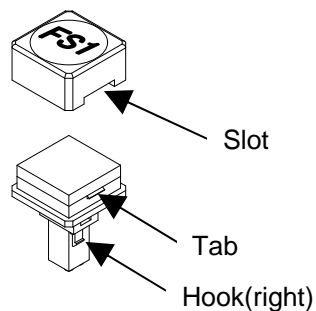


◆ **Attaching Button Labels and Button Caps**

(1) Carefully place a button cap over a label aligning the slots as shown to the right.



(2) Make sure the (right) hook is facing right, then align the button tabs and cap slots accordingly. Refer to the figure below showing the difference between the hooks (left/right).



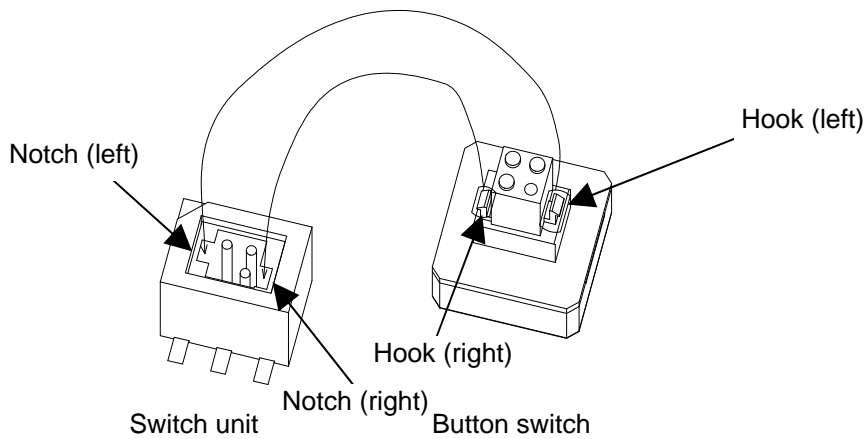
Left and right button hooks

**IMPORTANT**

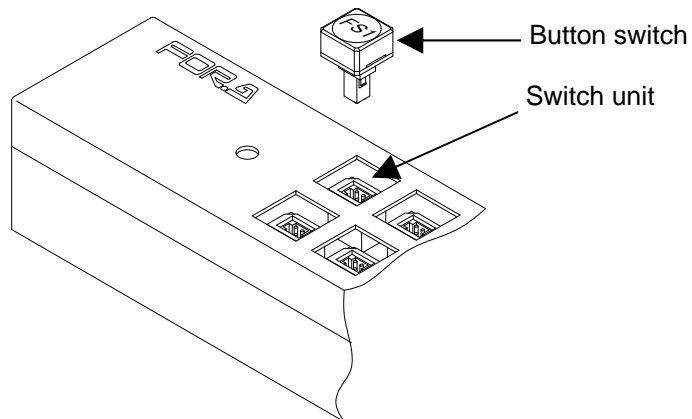
Button switches cannot be installed onto the switch unit unless they are properly oriented.

◆ **Reinstalling Button Switches**

(1) Verify that the (right) and (left) hooks properly align with the switch unit notches as shown below.



(2) Insert the button switch into the switch unit until it clicks.



**IMPORTANT**

Inserting a button switch in an incorrect orientation may damage the switch units. Be sure to orient the button switches correctly.

Label attachment is now complete.

# 目次

---

1. Prior to Starting .....	9
1-1. Welcome .....	9
1-2. Features .....	9
2. Panel Descriptions .....	10
2-1. Front Panel.....	10
2-2. Rear Panel .....	10
2-3. GPI 1 to 3 .....	11
2-4. Setting LED Button Colors .....	12
3. Connection .....	14
3-1. Connection Conditions .....	14
3-2. Connecting with the FA-10RU/FA-10DCCRU .....	14
3-3. Connecting with the FA-10GPI .....	14
3-4. Powering On.....	14
4. Specifications and Dimensions.....	15
4-1. Specifications .....	15
4-2. Control Cable Specifications .....	15
4-3. External Dimensions .....	16
Appendix Button Labels .....	1



# 1. Prior to Starting

---

## 1-1. Welcome

---

Congratulations! By purchasing an FA-AUX30 Auxiliary Unit you have entered the world of FOR-A and its many innovative products. Thank you for your patronage and we hope you will turn to FOR-A products again and again to satisfy your video and audio needs.

FOR-A provides a wide range of products, from basic support units to complex system controllers, which have been increasingly joined by products for computer video-based systems. Whatever your needs, talk to your FOR-A representative. We will do our best to be of continuing service to you.

## 1-2. Features

---

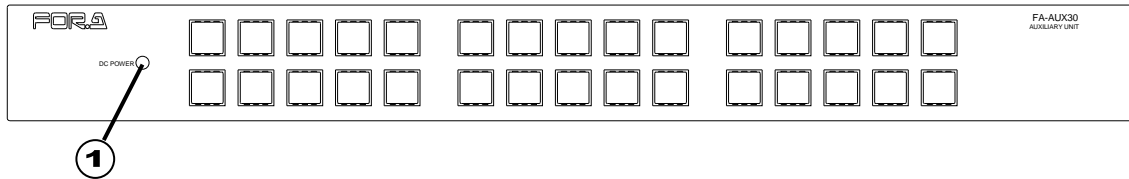
The FA-AUX30 is a remote control unit that controls FA-1010 and FA-10RU/FA-10DCCRUI GPI input and output.

Assigning often-used functions to the FA-AUX30 button switches can simplify and quicken operational procedures.

- Can be used by connecting to an FA-10GPI option on FA-1010 units, or an FA-10RU/FA-10DCCRUI.
- Simple connection using 3 GPI cables (Power also supplied via GPI cables)
- Selectable LED button colors (red, green, orange)

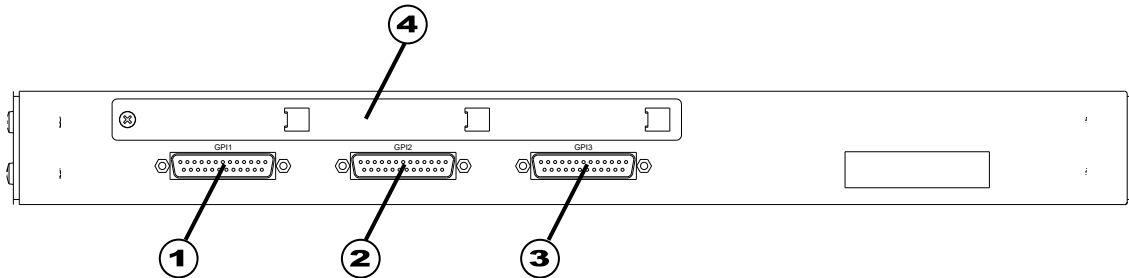
## 2. Panel Descriptions

### 2-1. Front Panel



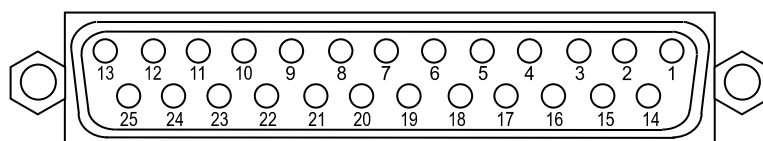
No.	Name	Description
1	DC POWER	Indicator lights when power is supplied from the FA-1010 or FA-10RU/FA-10DCCRU.

### 2-2. Rear Panel



No.	Name	Description
1	GPI 1	Used to connect to the FA-10RU/FA-10DCCRU or FA-10GPI.
2	GPI 2	
3	GPI 3	
4	LED COLOR	Used to select the front panel LED button colors.

## 2-3. GPI 1 to 3



### ◆ Connector pin assignments (25-pin D-sub 25, female)

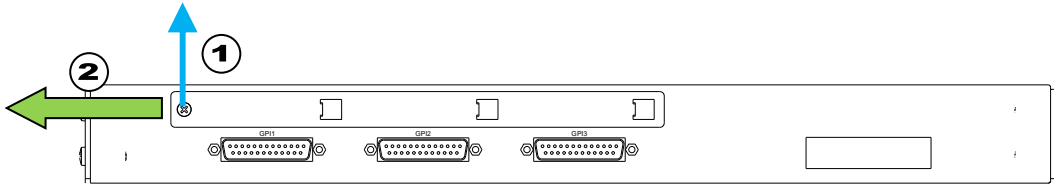
Pin No.	Signals		
	GPI1	GPI2	GPI3
1	GND (Ground)		
2	GPI IN 1 (Input)	GPI IN 11 (Input)	GPI IN 21 (Input)
3	GPI IN 2 (Input)	GPI IN 12 (Input)	GPI IN 22 (Input)
4	GPI IN 3 (Input)	GPI IN 13 (Input)	GPI IN 23 (Input)
5	GPI IN 4 (Input)	GPI IN 14 (Input)	GPI IN 24 (Input)
6	GPI IN 5 (Input)	GPI IN 15 (Input)	GPI IN 25 (Input)
7	GND (Ground)		
8	GPI OUT 1 (Output)	GPI OUT 11 (Output)	GPI OUT 21 (Output)
9	GPI OUT 2 (Output)	GPI OUT 12 (Output)	GPI OUT 22 (Output)
10	GPI OUT 3 (Output)	GPI OUT 13 (Output)	GPI OUT 23 (Output)
11	GPI OUT 4 (Output)	GPI OUT 14 (Output)	GPI OUT 24 (Output)
12	GPI OUT 5 (Output)	GPI OUT 15 (Output)	GPI OUT 25 (Output)
13	DC IN (5.0 V input, maximum 200 mA DC)		
14	GPI IN 6 (Input)	GPI IN1 6 (Input)	GPI IN2 6 (Input)
15	GPI IN 7 (Input)	GPI IN1 7 (Input)	GPI IN2 7 (Input)
16	GPI IN 8 (Input)	GPI IN 18 (Input)	GPI IN 28 (Input)
17	GPI IN 9 (Input)	GPI IN 19 (Input)	GPI IN 29 (Input)
18	GPI IN 10 (Input)	GPI IN 20 (Input)	GPI IN 30 (Input)
19	GND (Ground)		
20	GPI OUT 6 (Output)	GPI OUT 16 (Output)	GPI OUT 26 (Output)
21	GPI OUT 7 (Output)	GPI OUT 17 (Output)	GPI OUT 27 (Output)
22	GPI OUT 8 (Output)	GPI OUT 18 (Output)	GPI OUT 28 (Output)
23	GPI OUT 9 (Output)	GPI OUT 19 (Output)	GPI OUT 29 (Output)
24	GPI OUT 10 (Output)	GPI OUT 20 (Output)	GPI OUT 30 (Output)
25	NC		

## 2-4. Setting LED Button Colors

FA-AUX30 LED button colors can be set in the following procedure.

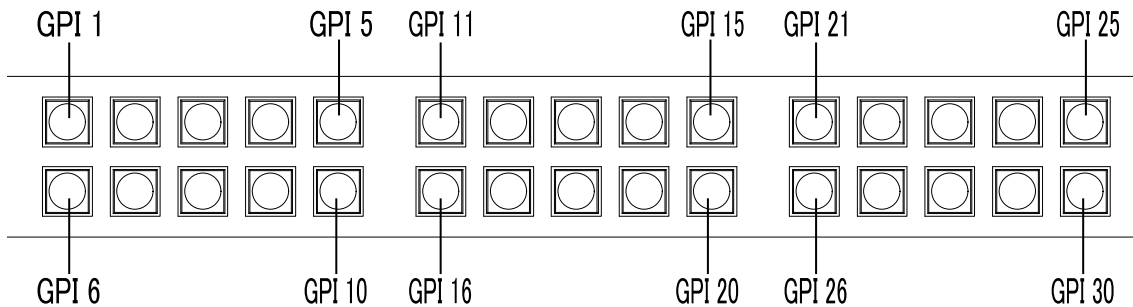
<b>WARNING</b>
Do not access internal cards with the unit power ON. Always power OFF all connected units / disconnect power cords prior to accessing the interior.

- 1) Remove the attachment screw from the blank panel on the rear panel.
- 2) Slide the blank panel to the left and remove from the rear panel.



- 3) Verify which DIP switch settings to change by referring to the below figure (GPI button locations) and table (GPI-DIP switch assignments) for the connections.  
For example, to change the LED color of the GPI 1 button, pins 1 and 2 on SW1 must be changed.

### ◆ GPI button locations

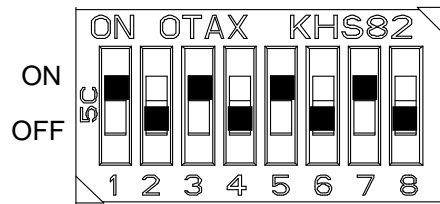


### ◆ GPI-DIP switch assignments

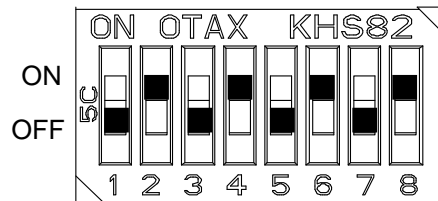
SW	Pin No.	GPI	SW	Pin No.	GPI	SW	Pin No.	GPI
SW1	1-2	1	SW4	1-2	11	SW7	1-2	21
	3-4	2		3-4	12		3-4	22
	5-6	3		5-6	13		5-6	23
	7-8	4		7-8	14		7-8	24
SW2	1-2	5	SW5	1-2	15	SW8	1-2	25
	3-4	6		3-4	16		3-4	26
	5-6	7		5-6	17		5-6	27
	7-8	8		7-8	18		7-8	28
SW3	1-2	9	SW6	1-2	19	SW9	1-2	29
	3-4	10		3-4	20		3-4	30
	5-6	-		5-6	-		5-6	-
	7-8	-		7-8	-		7-8	-

- 4) Set DIP switches (ON and/or OFF) as shown in the examples blow. ■ depicts the switch position.  
For example, to set the GPI 1 button to red, set SW1 pin 1 to ON, and pin 2 to OFF.

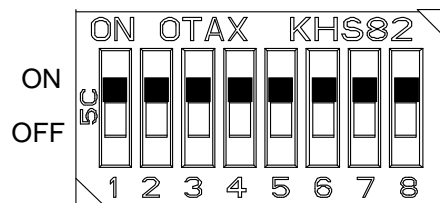
◆ **Red (Set odd number switches to ON.)**



◆ **Green (Set even number switches to ON.)**



◆ **Orange (Set both odd and even number switches to ON.)**



- 5) After settings are complete, reattach and secure the blank panel with the screw.  
6) Connect to the FA-10RU/FA-10DCCRU or FA-10GPI, and verify that the LED colors have been correctly set.

LED button color settings are complete.

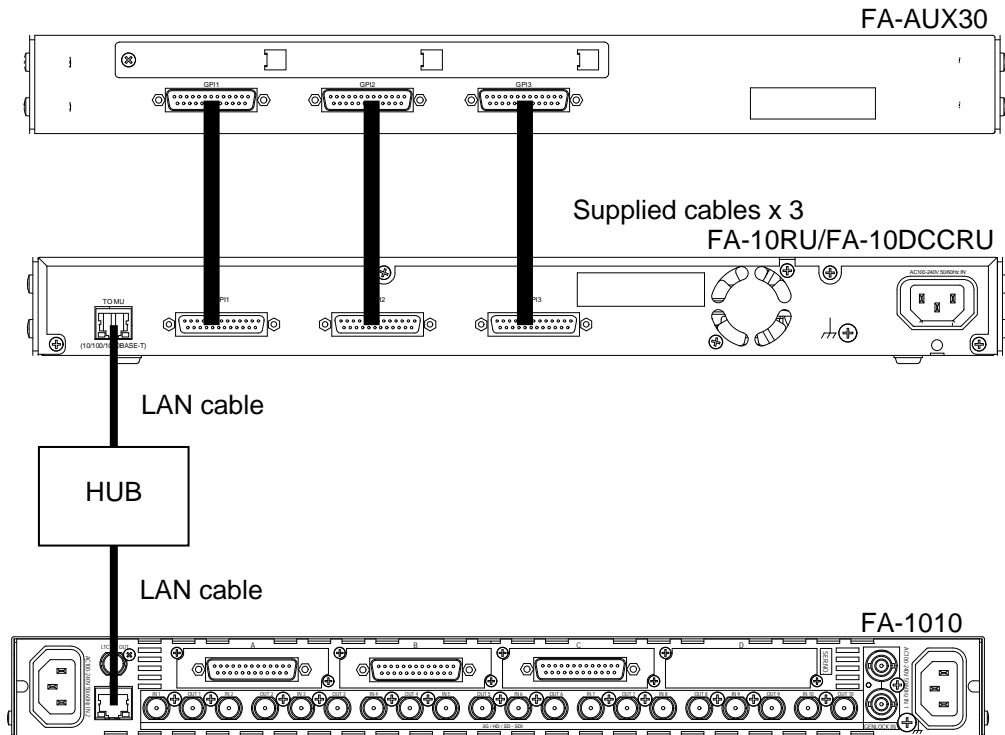
### 3. Connection

#### 3-1. Connection Conditions

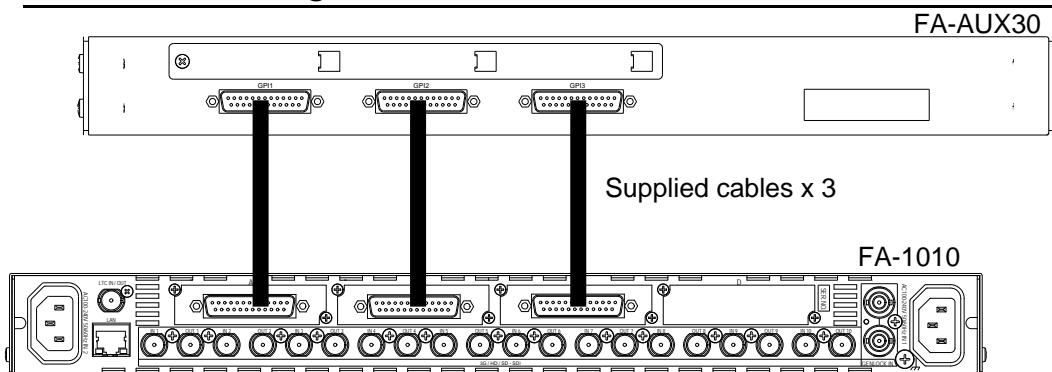
Connection cable	25-pin D-sub, male (straight cable)
Cable length	10 m or shorter

The above serves only as a guideline. Connections must be verified in the actual configuration due to the environmental changes.

#### 3-2. Connecting with the FA-10RU/FA-10DCCRU



#### 3-3. Connecting with the FA-10GPI



#### IMPORTANT

Up to 3 FA-10GPI option units can be connected to one FA-AUX30.

#### 3-4. Powering On

The power is supplied to the FA-AUX30 via a GPI pin. Turn the power of the FA-10RU/FA-10DCCRU or FA-1010 on after completing all connections.

## 4. Specifications and Dimensions

---

### 4-1. Specifications

---

Interface	GPI 1 - 3	25-pin D-sub (female) x 3 (inch screws)
Power	5.4 VDC (Supplied from the connected unit)	
Power consumption	5.4 VDC: 2.5W	
Temperature	0°C to 40°C	
Humidity	30% to 90% (no condensation)	
Dimensions	430 (W) x 44 (H) x 35 (D) mm	
Weight	0.8 kg	
Consumables	None	

### 4-2. Control Cable Specifications

---

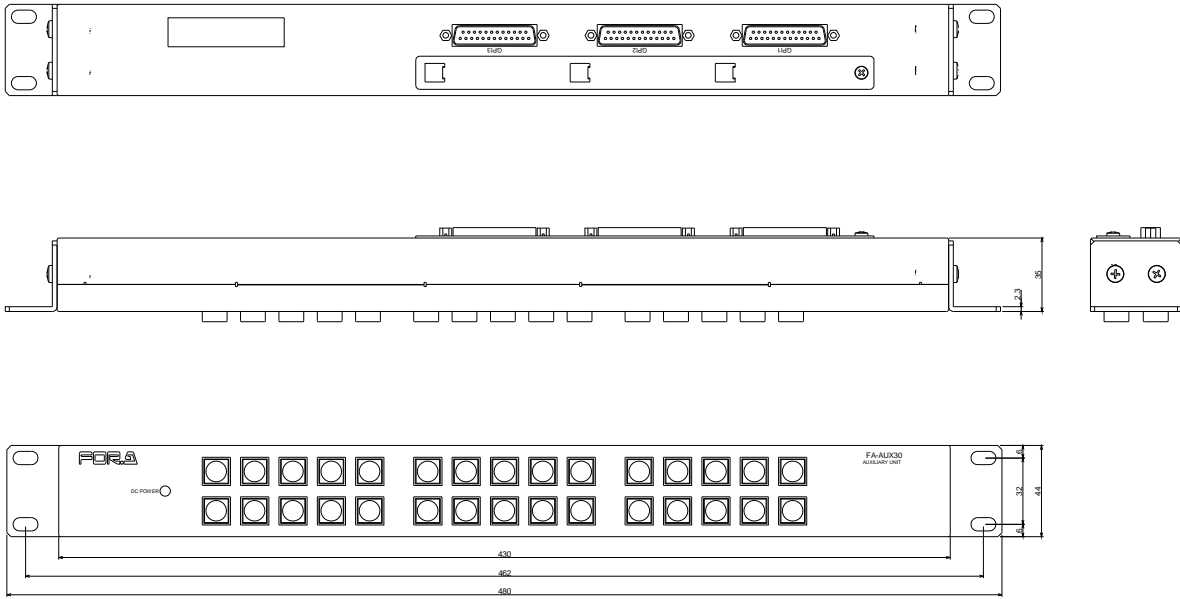
Straight cables with all pins connected are supplied with the FA-AUX30.

◆ **Pin connections**

FA-AUX30		Other device (FA-10RU/FA-10DCCRU or FA-10GPI)
1	—	1
2	—	2
3	—	3
4	—	4
5	—	5
	—	
23	—	23
24	—	24
25	—	25
Frame	—	Frame

# 4-3. External Dimensions

(All dimensions in mm.)



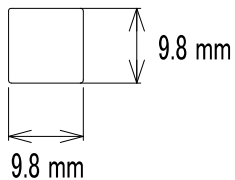


# Appendix Button Labels

The button labels on this page can be copied to an OHP sheet for use.

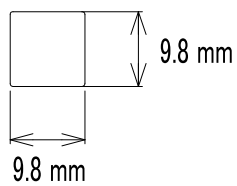
\* Printed button labels can be separately purchased. (Refer to the following samples when purchasing.) Contact your service representative for further details.

MU ID 1	MU ID 2	MU ID 3	MU ID 4	MU ID 5	MU ID 6	MU ID 7	MU ID 8	MU ID 9	MU ID 10
FS1	FS2	FS3	FS4	FS5	FS6	FS7	FS8	FS9	FS10
PROC FS1	PROC FS2	PROC FS3	PROC FS4	PROC FS5	PROC FS6	PROC FS7	PROC FS8	PROC FS9	PROC FS10
CC FS1	CC FS2	CC FS3	CC FS4	CC FS5	CC FS6	CC FS7	CC FS8	CC FS9	CC FS10
CC WHT FS1	CC WHT FS2	CC WHT FS3	CC WHT FS4	CC WHT FS5	CC WHT FS6	CC WHT FS7	CC WHT FS8	CC WHT FS9	CC WHT FS10
CC BLK FS1	CC BLK FS2	CC BLK FS3	CC BLK FS4	CC BLK FS5	CC BLK FS6	CC BLK FS7	CC BLK FS8	CC BLK FS9	CC BLK FS10
CC GMA FS1	CC GMA FS2	CC GMA FS3	CC GMA FS4	CC GMA FS5	CC GMA FS6	CC GMA FS7	CC GMA FS8	CC GMA FS9	CC GMA FS10
DEST 1	DEST 2	DEST 3	DEST 4	DEST 5	DEST 6	DEST 7	DEST 8	DEST 9	DEST 10
SRC1	SRC2	SRC3	SRC4	SRC5	SRC6	SRC7	SRC8	SRC9	SRC10





TAKE	TAKE MODE	DIRECT MODE	SALVO	SALVO LOAD	SALVO SAVE	DC POWER	DC POWER1	DC POWER2	MU
PROC	VIDEO LEVEL	CHRM LEVEL	SETUP BLK	HUE	CC	CC WHT	CC BLK	CC GMA	
CC FS1	CC FS2	CC FS3	CC FS4	CC FS5	CC FS6	CC FS7	CC FS8	CC FS9	CC FS10
AUD GAIN	AUD DLY	MAP GROUP 1/2	MAP GROUP 3/4	VIDEO STATUS	AUDIO STATUS	VIDEO TEST	AUDIO TEST	REF IN	
FS1 VIDEO IN	FS2 VIDEO IN	FS3 VIDEO IN	FS4 VIDEO IN	FS5 VIDEO IN	FS6 VIDEO IN	FS7 VIDEO IN	FS8 VIDEO IN	FS9 VIDEO IN	FS10 VIDEO IN
DLY FS1	DLY FS2	DLY FS3	DLY FS4	DLY FS5	DLY FS6	DLY FS7	DLY FS8	DLY FS9	DLY FS10
FRZ FS1	FRZ FS2	FRZ FS3	FRZ FS4	FRZ FS5	FRZ FS6	FRZ FS7	FRZ FS8	FRZ FS9	FRZ FS10
FRZ	FRAME	ODD	EVEN	BPS	EVENT	EVENT LOAD	EVENT SAVE	LOCK	LOCK
TIME CODE	LTC	START	STOP	RESET	PRESET	ALARM	FAN		





## **Warning**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.



**FOR-A COMPANY LIMITED**

Head Office 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan  
Overseas Division Tel: +81(0)3 3446 3936 Fax: +81(0)3 3446 1470  
Japan Branch Offices Osaka/Okinawa/Fukuoka/Hiroshima/Nagoya/Sendai/Sapporo  
R&D/Production Sakura Center/Sapporo Center

**FOR-A Corporation of America**

11155 Knott Ave., Suite G&H, Cypress, CA 90630, USA.  
Tel: +1 714 894 3311 Fax: +1 714 894 5399

**FOR-A Corporation of America East Coast Office**

2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee, NJ 07024, USA  
Tel: +1 201 944 1120 Fax: +1 201 944 1132

**FOR-A Corporation of America Distribution & Service Center**

2400 N.E. Waldo Road, Gainesville, FL 32609, USA  
Tel: +1 352 371 1505 Fax: +1 352 378 5320

**FOR-A Corporation of America Miami Office**

5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, USA  
Tel: +1 305 931 1700 Fax: +1 305 264 7890

**FOR-A Corporation of Canada**

1131A, Leslie Street Suite 209, Toronto, Ontario M3C 2J6, Canada  
Tel: +1 416 977 0343 Fax: +1 416 977 0657

**FOR-A Europe S.r.l.**

Via Volturmo 37, 20861 Brugherio MB, Italy  
Tel: +39 039 91 64 811 Fax: +39 039 878 140

**FOR A UK Limited**

Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, UK  
Tel: +44 (0)20 3044 2935 Fax: +44(0)20 3044 2936

**FOR-A Italia S.r.l.**

Via Volturmo 37, 20861 Brugherio MB, Italy  
Tel: +39 039 881 086/103 Fax: +39 039 878 140

**FOR-A Corporation of Korea**

1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea  
Tel: +82 (0)2 2637 0761 Fax: +82 (0)2 2637 0760

**FOR-A China Limited**

708B Huateng Building, No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China  
Tel: +86 (0)10 8721 6023 Fax: +86 (0)10 8721 6033

**FOR-A Middle East-Africa Office**

Dubai Media City, Aurora Tower, Office 1407, P.O. Box 502688, Dubai, UAE  
Tel: +971 (0)4 551 5830 Fax: +971 (0)4 551 5832

**Agiv (India) Private Limited (FOR-A India)**

85, V.N. Purav Marg Sion-Chunabhatti (E) Mumbai - 400 022  
Tel: +91 22 2405 1258 Fax: +91 22 2405 0007