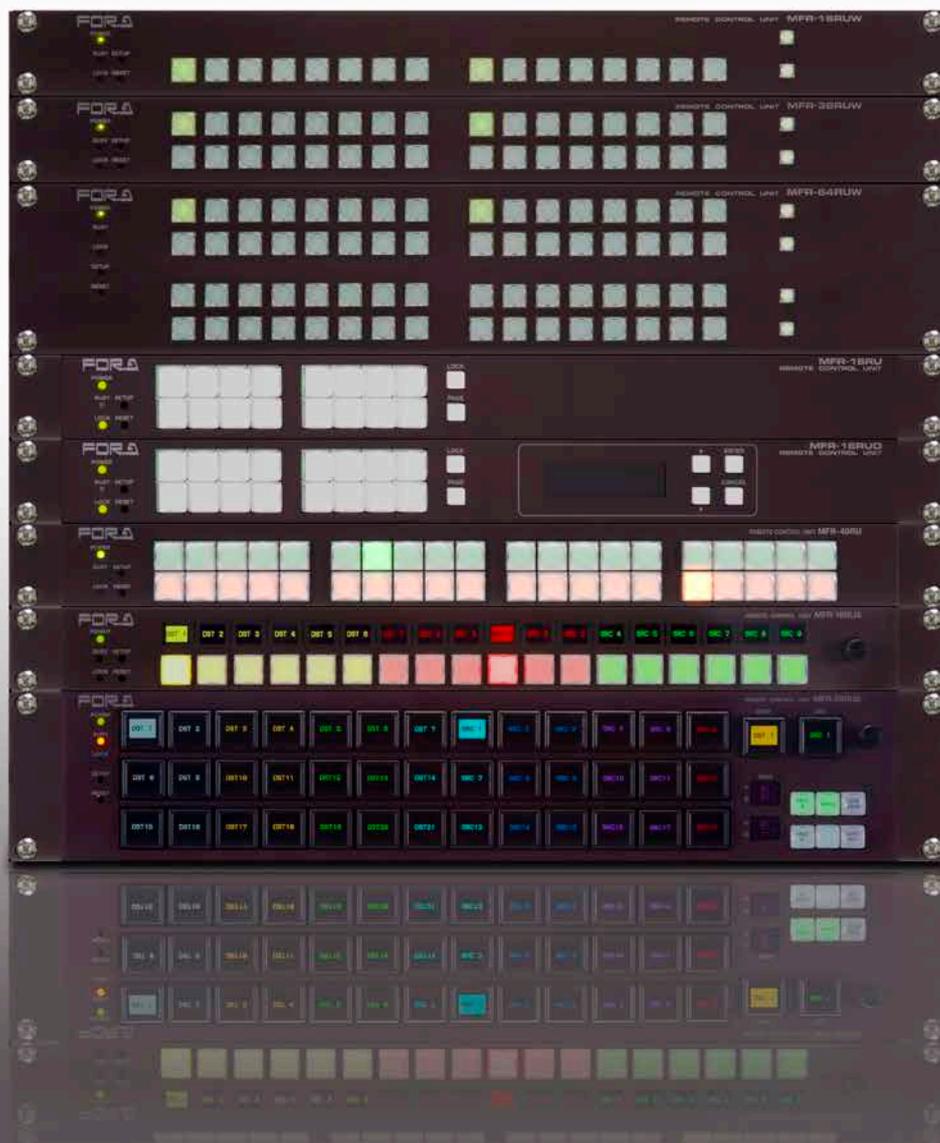
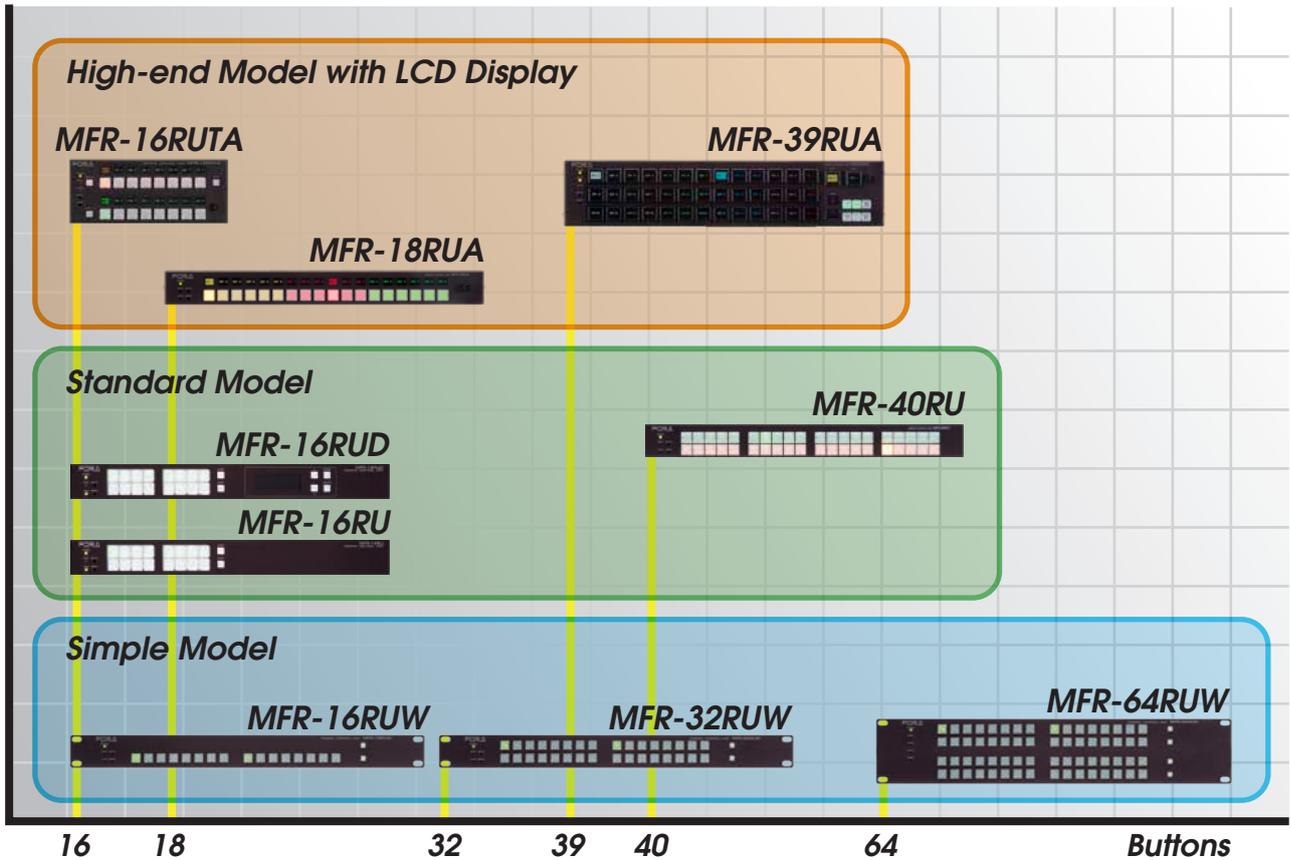


REMOTE CONTROL UNIT  
**MFR-RU SERIES**



# MFR-RU series Product Line-up

## Functions



## Main Unit Line-up

### MFR-3232/3232RPS/3216/3216RPS/1616/1616R



Multi-format routing switchers that support 3G-SDI, HD-SDI, SD-SDI and ASI signals. FOR-A features six models, each with a different number of inputs and outputs.

### MFR-1616A



AES audio dedicated model, 16 inputs/16 outputs.

### MFR-3000



A multi-format routing switcher that builds on the solid performance of our larger MFR-5000/8000 units through redundancy and easy maintenance. Optional front panel is available.

### MFR-5000



A multi-format routing switcher supporting 3G/HD/SD-SDI, ASI, AES, and RS-422. Inside the 8 U case a matrix of up to 128 inputs/128 outputs can be configured.

### MFR-8000



A multi-format routing switcher supporting 3G/HD/SD-SDI, ASI, AES, and RS-422. Offers an expanded matrix of 256 inputs/256 outputs in a 16 U frame.

# Product Details

## Simple Model

### MFR-16RUW



### MFR-32RUW



### MFR-64RUW



- 1 U compact size
- 16 buttons (Single color: G)
- Any function can be assigned to the 16 buttons
- 2 dedicated function buttons

- 1 U compact size
- 32 buttons (Single color: G)
- Any function can be assigned to the 32 buttons
- 2 dedicated function buttons

- 2 U size
- 64 buttons (Single color: G)
- Any function can be assigned to the 64 buttons
- 4 dedicated function buttons

## Standard Model

### MFR-16RU



### MFR-16RUD



### MFR-40RU



- 1 U compact size
- 16 buttons (Single color: G)
- Any function can be assigned to the 16 buttons
- 2 function buttons (lock/page)

- 1 U compact size
- 16 buttons (Single color: G)
- Any function can be assigned to the 16 buttons
- Equipped with a status and setting menu display
- 2 function buttons (lock/page)

- 1 U compact size
- 40 buttons (3 colors: R, G, Or)
- Any function can be assigned to any button
- Redundant power supply (AC adapter)

## High-end Model with LCD Display

### MFR-18RUA



### MFR-39RUA



### MFR-16RUTA



- 1 U compact size
- 18 buttons (3 colors: R, G, B)
- Equipped with OLED display that can show source name and assigned functions for each button (7 colors: R, G, Ye, B, W, Cy, Mg)
- Any function can be assigned to any button
- Redundant power supply (AC adapter)

- 2 U size
- 39 buttons: 13 button x 3-row. Buttons with OLED display that can show source names or assigned functions (7 colors: R, G, Ye, B, W, Cy, Mg)
- Apart from the main buttons, there are 6 function buttons that can be freely assigned (3 colors: R, G, Or)
- Equipped with display showing information of current sources, destinations, and pages
- Ideal as a main control unit covering the entire crosspoint set-up
- Redundant power supply (AC adapter)

- 2U half tabletop size
- 16 buttons (3 colors: R, G, Or)
- Equipped with LCD display that can show source name and assigned functions for each button (7 colors: R, G, Ye, B, W, Cy, Mg)
- Any function can be assigned to the 16 buttons

## Interface Expansion Unit

The interface expansion unit lineup includes three types to suit your specific application. The number of units that can be connected is a maximum of 128, including the remote control units.

### MFR-RULINK: Remote Control Relay Unit



Connects MFR main unit and MFR-RU series. It allows MFR-RU series to switch cross points and control Lock function. It also supports change settings of MFR-RU series via built-in Web server. Max. 15 MFR-RU units can be connected via LAN.

### MFR-GPI: GPI Unit



Provides an interface for GPI control. This 1 RU sized unit is equipped with user-assignable GPI/O (128 channels) and 4 serial ports (9-pin D-sub male). It can be used for setting Input/Output and supports system configuration.

### MFR-TALM: Tally Manager



MFR-TALM is a device for performing central management of tally and material names of the MFR main unit and peripheral devices (such as video switchers and multi viewers). In the tally linking system, MFR-TALM performs the tally calculation, which were originally performed by the MFR main unit, so that the tally linking can be speeded up.

## Select Your System and Usage

### Information displays

MFR-18RUA MFR-39RUA MFR-16RUTA

### Page up/down functions

Up to 2 pages

MFR-16RU MFR-16RUD

Up to 32 pages

MFR-18RUA MFR-39RUA

Up to 32 pages (w/o information displays)

MFR-16RUW MFR-32RUW

MFR-40RU MFR-64RUW

### Parameter settings

MFR-16RUD MFR-39RUA

### Multi-colored buttons

MFR-18RUA MFR-39RUA MFR-40RU

MFR-16RUTA

### Up to 18 buttons

16 buttons

MFR-16RUW MFR-16RU MFR-16RUD

MFR-16RUTA

18 buttons

MFR-18RUA

### 32+ buttons

32 buttons

MFR-32RUW

39 buttons

MFR-39RUA

40 buttons

MFR-40RU

64 buttons

MFR-64RUW

### Redundant power supply unit

MFR-18RUA MFR-39RUA MFR-40RU

### Simple/cost-effective model

MFR-16RUW MFR-32RUW MFR-64RUW

### All-purpose model

MFR-39RUA

# MFR-RU Series External Dimensions and Rear Panel



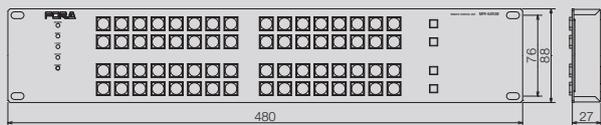
▲ MFR-16RUW External Dimensions



▲ MFR-32RUW External Dimensions



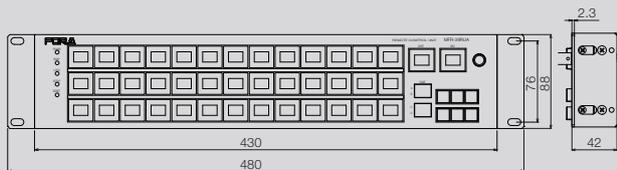
▲ MFR-16RUW/32RUW Rear Panel



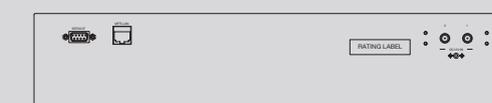
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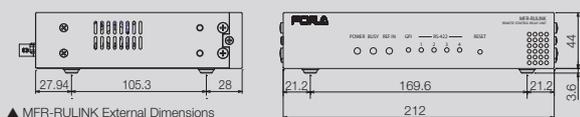
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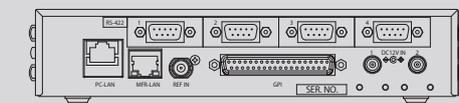
▲ MFR-39RUA External Dimensions



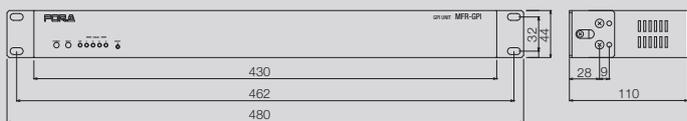
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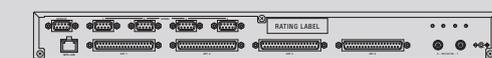
▲ MFR-RULINK External Dimensions



▲ MFR-RULINK Rear Panel



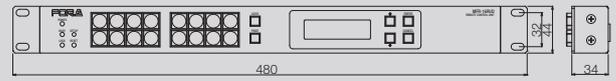
▲ MFR-GPI External Dimensions



▲ MFR-GPI Rear Panel



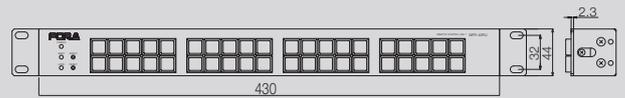
▲ MFR-16RU External Dimensions



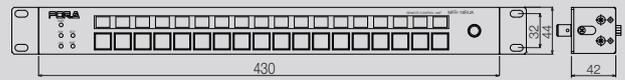
▲ MFR-16RUD External Dimensions



▲ MFR-16RU/16RUD Rear Panel



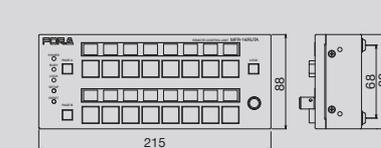
▲ MFR-40RU External Dimensions



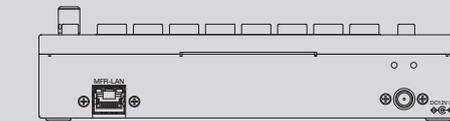
▲ MFR-18RUA External Dimensions



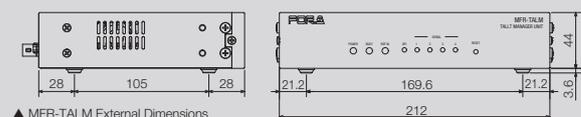
▲ MFR-40RU/18RUA Rear Panel



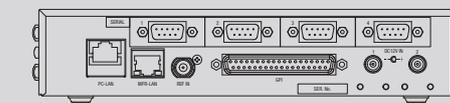
▲ MFR-16RUTA External Dimensions



▲ MFR-16RUTA Rear Panel



▲ MFR-TALM External Dimensions



▲ MFR-TALM Rear Panel

# Specifications

	Simple Model			Standard Model			Highend model with LCD display	
Model Name	MFR-16RUW	MFR-32RUW	MFR-64RUW	MFR-16RU	MFR-16RUD	MFR-40RU	MFR-18RUA	MFR-39RUA
Buttons/Colors	16 buttons (1 color only: green) user assignable	32 buttons (1 color only: green) user assignable	64 buttons (1 color only: green) user assignable	16 buttons (1 color only: green) user assignable	16 buttons (1 color only: green) user assignable	40 buttons (3-color: red/green/ orange) user assignable	18 buttons (3-color: red/green/ orange) user assignable	39 buttons (OLED buttons, 7-color) user assignable
	2 function buttons user assignable	2 function buttons user assignable	4 function buttons user assignable	2 function buttons (Lock/Page)	2 function buttons (Lock/Page)			6 buttons(3-color: red/green/orange) user assignable
Name display	None	None	None	None	None	None	Available (Displayed above each button) OLED display x18 (Max. 7 characters x2 lines)	Available (Displayed in each button) OLED display x39 (Max. 7 characters x2 lines)
Rotary selector	None	None	None	None	None	None	Available	Available
Number of Connections	Max. 128 units (including MU, remote control and GPI units)							
Interfaces	MFR-LAN 10/100 Base-TX RJ-45 x1 (for connection to MU; network hub required for connecting to multiple MUs)							
	Service	None	None	None	None	RS-232C 9-pin D-sub (male) x1 (for maintenance)		
Temperature / Humidity	0 °C to 40 °C / 30 % to 85 % (no condensation)							
Power	+12 VDC Pin-connector x1					+12 VDC Pin-connector x2 (redundant power supply as standard)		
Consumption								
	100 VAC to 120 VAC	8 VA (3 W)	10 VA (4 W)	15 VA (7 W)	7 VA (3 W)	8 VA (3 W)	10 VA (5 W)	15 VA (6 W)
	200 VAC to 240 VAC	11 VA (3 W)	13 VA (4 W)	20 VA (8 W)	11 VA (4 W)	11 VA (4 W)	15 VA (7 W)	18 VA (8 W)
Dimensions (W x H x D)	480 x 44 x 27 mm	480 x 44 x 27 mm	480 x 88 x 27 mm	430 x 44 x 34 mm	430 x 44 x 34 mm	430 x 44 x 42 mm	430 x 44 x 42 mm	430 x 88 x 44 mm
Weight	1 kg	1 kg	1.5 kg	1 kg	1 kg	2 kg	2 kg	3 kg
Consumables	AC adaptor: Replace every 5 years							
Accessories	AC adaptor and AC cable x 1 DC adapter retaining clip x 1 Tool used to change button labels x1			AC adaptor and AC cable x 1 DC adapter retaining clip x1 Rack mount brackets LAN cable Tool used to change button labels x1				
Options	DC adapter retaining clip (screw-in type) x 1							

	Table-top model
Model Name	MFR-16RUTA
Buttons/Colors	16 buttons (3-color: red/green/orange) user assignable
	3 function buttons (PAGE x2 / LOCK x1)
Name display	Available (Displayed above each button) OLED display x16 (Max. 7 characters x2 lines)
Rotary selector	Available
Number of Connections	Max. 128 units (including MU, remote control and GPI units)
Interfaces	MFR-LAN 10/100BASE-TX RJ-45 x1 (for connection to MU; network hub required for connecting to multiple MUs)
	Service None
Temperature / Humidity	0 °C to 40 °C / 30 % to 85 % (no condensation)
Power	+12 VDC Pin-connector x1
Consumption	
	100 VAC to 120 VAC 12 VA (5W)
	200 VAC to 240 VAC 15 VA (6W)
Dimensions (W x H x D)	215 (W) x 88 (H) x 43 (D) mm
Weight	1 kg
Consumables	AC adaptor: Replace every 5 years
Accessories	AC adaptor and AC cable x1 DC adapter retaining clip x1 LAN cable Tool used to change button labels x1
Options	DC adapter retaining clip (screw-in type) x 1

	Interface expansion unit		Remote control relay unit
Model Name	MFR-GPI	MFR-TALM	MFR-RULINK
Number of Connections	Max. 128 units (including MU, remote control and GPI units)		
Interfaces	MFR-LAN 10/100BASE-TX RJ-45 x1* 10/100/1000BASE-T RJ-45 x1* 10/100/1000BASE-T RJ-45 x1*		
	*Ethernet hub is required for main and multiple unit connections.) (for connection to RU)		
Service	RS-232C: 9-pin D-sub (male) x1 (for maintenance)	None	None
PC-LAN	None	10/100BASE-TX RJ-45 x1 (for PC or other external devices)	
REF IN	None	None	None
GPI IN / TALLY OUT	37-pin D-sub (female) x4 128-input/output (user assignable)	37-pin D-sub (female) x1 32-input/output (user assignable)	None
RS-422	None	9-pin D-sub (male) x4	None
Serial 1-4	RS-232C/422 (selectable): 9-pin D-sub (male) x4	None	None
Temperature / Humidity	0 °C to 40 °C / 30 % to 85 % (no condensation)		
Power	+12 VDC Pin-connector x2 (redundant power supply as standard)		
Consumption			
	100 VAC to 120 VAC	8 VA (4 W)	17 VA (9 W)
	200 VAC to 240 VAC	13 VA (6W)	20 VA (9 W)
Dimensions (W x H x D)	430 x 44 x 110 mm	212 x 44 x 161 mm	212 x 44 x 161 mm
Weight	2 kg	2 kg	2 kg
Consumables	AC adaptor: replace every 5 years		
Accessories	AC adaptor and AC cable x1 DC adapter retaining clip x1 set Rack mount brackets x1 set LAN cable x1	AC adaptor and AC cable x1 DC adapter retaining clip x1 set	AC adaptor and AC cable x1 DC adapter retaining clip x1 set Operation manual x1
Option	DC adapter retaining clip (screw-in type) x 1	Rack mount brackets x1 set DC adapter retaining clip (screw-in type) x 1	



INNOVATIONS IN VIDEO and AUDIO TECHNOLOGY  
Head Office: 3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan

**FOR-A Corporation of America:** Tel: +1-714-894-3311  
11155 Knott Ave. Suite G&H, Cypress, CA 90630, U.S.A.

**FOR-A Corporation of America East Coast Office:** Tel: +1-201-944-1120  
2 Executive Drive, Suite 670, Fort Lee Executive Park, Fort Lee, NJ 07024, U.S.A.

**FOR-A Corporation of America Distribution & Service Center:** Tel: +1-352-371-1505  
2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.

**FOR-A Corporation of America Miami Office:** Tel: +1-305-931-1700  
5200 Blue Lagoon Drive, Suite 760, Miami, FL 33126, U.S.A.

**FOR-A Corporation of Canada:** Tel: +1-416-977-0343  
1131A, Leslie Street #209, Toronto, Ontario, M3C 3L8, CANADA

**FOR-A Europe S.r.l.:** Tel: +39-039-879-778  
Via Volturmo, 37, 20861 Brugherio MB, Italy

**FOR-A UK Limited:** Tel: +44-(0)20-3044-2935  
Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, UK

**FOR-A Italia S.r.l.:** Tel: +39-039-881-086/103  
Via Volturmo, 37, 20861, Brugherio MB, Italy

**FOR-A Corporation of Korea:** Tel: +82-(0)2-2637-0761  
1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 150-103, Korea

**FOR-A China Limited:** Tel: +86-(0)10-8721-6023  
708B Huateng Building, No. 302, 3 District, Jinsong, Chaoyang, Beijing 100021, China

**FOR-A Middle East-Africa Office:** Tel: +971-(0)4-551-5830  
Dubai Media City, Aurora Tower, Office 1407, P.O. Box 502688, Dubai, UAE

**Agiv (India) Private Limited (FOR-A India):** Tel: +91-22-2405-1258  
85, V.N. Purav Marg Sion-Chunabhatti (E) Mumbai - 400 022

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