

FURUNO

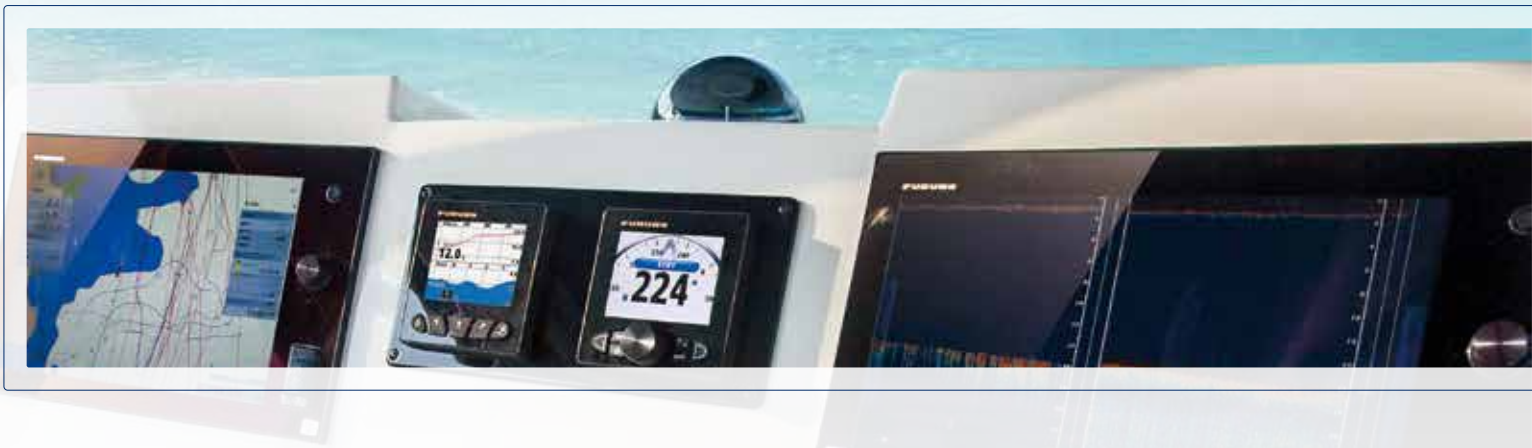
MU-DISPLAY series

MARINE DISPLAY

Model MU-150HD/152/190HD/190/190V/231/270W



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Need a bright idea? How about using FURUNO marine grade monitors in your helm!

The FURUNO MU-Display series is a multi-purpose marine LCD that features the unmatched quality and reliability that you have learned to depend on.

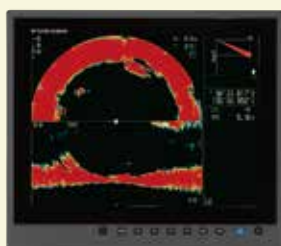
The MU-Display series employs bright color TFT LCDs with a special AR (anti-reflective) glass filter to cut down on annoying glare. With its bright colors, excellent contrast and wide viewing angles, the monitor is perfect for any tropical sunlight or low light conditions. Furthermore, the LCDs and the glass are bonded to ensure fog free operation on open fly-bridge installations*.

These units feature a wide range of interface options that include: RGB analog, DVI (Digital Video Interface) and composite video inputs.

These displays may be used as either the main or remote display for a variety of marine equipment such as BlackBox Radar, Sounder, Sonar and NavNet series. They can also be used for displaying images from security cameras, DVD player, computers, etc.

*for MU-150HD and MU-190HD

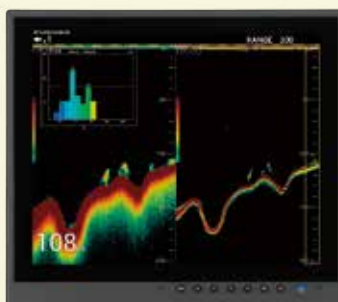
MU-DISPLAY_{series}



Model MU-150HD



Model MU-152



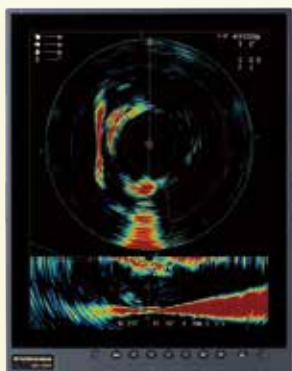
Model MU-190HD



Model MU-190



	MU-150HD	MU-152	MU-190HD	MU-190	MU-190V	MU-231	MU-270W
Crystal clear marine grade monitors for use as main or remote display	✓	✓	✓	✓	✓	✓	✓
Bonded LCD provides clear view in any weather condition and avoids concerns such as dew condensation	✓	—	✓	—	—	—	—
Available in table top or flush mount (Mounting bracket is optional)	✓	✓	✓	✓	✓	✓	✓
Automatic dimmer sensor adjusts the display brightness as lighting conditions change	✓	✓	✓	✓	✓	✓	✓
Customizable input names for easy on-the-fly identification and switching between onboard Radar, Sonar, Sounder, Camera, etc.	✓	✓	✓	✓	✓	✓	✓
Any of the composite inputs are PIP (Picture-In-Picture) capable, with adjustable size and screen location	✓	✓	✓	✓	✓	✓	✓
Power ON/OFF automatically by the DVI signal	✓	✓	✓	✓	✓	✓	✓
1,000 cd/m ² brightness provides superior visibility even in direct sunlight	✓	—	✓	—	—	—	—
Built-in scaler allows accepting up to various resolutions	VGA to SXGA	VGA to SXGA	VGA to SXGA	VGA to SXGA	VGA to SXGA	VGA to UXGA	SVGA to WUXGA
Selectable inputs including RGB analog, DVI (Digital Video Interface) and Composite	✓	✓	✓	✓	✓	✓	✓



Model MU-190V



Model MU-231

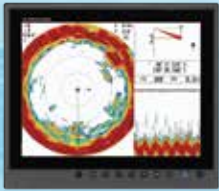


Model MU-270W

Features

15"

XGA (1024 x 768)



XGA (1024 x 768)



Model **MU-150HD**



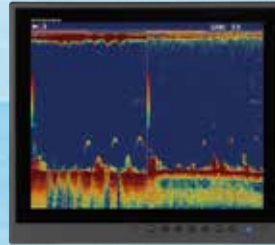
1000 cd/m²

Model **MU-152**



19"

SXGA (1280 x 1024)

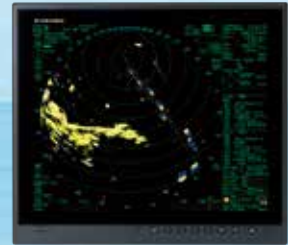


Model **MU-190HD**



1000 cd/m²

SXGA (1280 x 1024)



Model **MU-190**

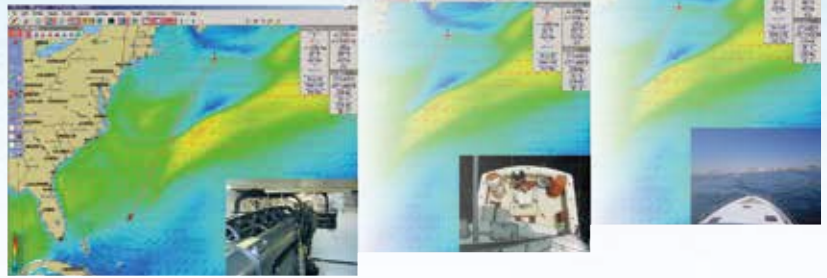


Picture In Picture (PIP)

: **MU-150HD/152/190HD/190/190V/231/270W**

Composite video (NTSC/PAL) input is available for displaying video images from an onboard TV/DVD player.

For MU-150HD/152/190HD with more than two Composite Video Inputs, the images in the PIP window automatically switch alternately.



Low power consumption

: **MU-150HD/152/190HD/190/190V/231/270W**

Utilizing the latest LED backlight, the MU-Display series delivers sharp, high quality images with bright colors and all at very low power consumption.

Waterproof : MU-150HD/152/190HD

The MU-150HD/152/190HD has a waterproof display and is built to stand up to tough marine conditions when mounted at fly bridge console.

The display can be rinsed in water for easy, worry-free cleaning.



Slim, lightweight and compact

: **MU-150HD/152/190HD/190/190V/231/270W**

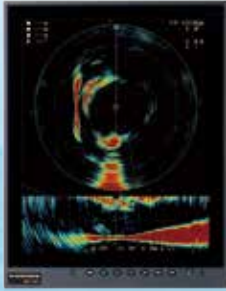
The MU-Display series is slim in depth, light weight and is so compact that it fits right into virtually any console.

It's space-saving design makes optimum use of your dashboard.



photo: MU-190HD/150HD

SXGA (1280 x 1024)



Model MU-190V



23.1"

UXGA (1600 x 1200)

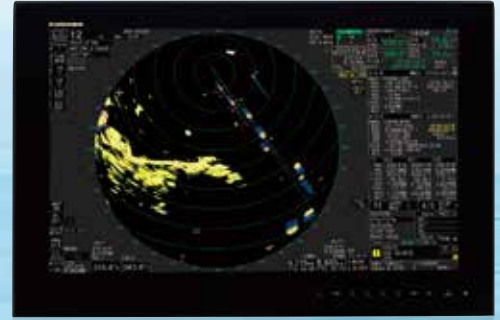


Model MU-231



27"

WUXGA (1920 x 1200)



Model MU-270W



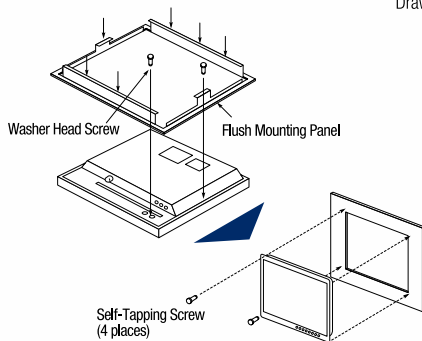
Flush mounting

For space-saving installation and additional security, flush mount installation is available for all the MU-Display series. The display unit can be fixed from either front or rear with the flush mount kit for MU-150HD/152/190HD/190/190V/231/270W.

Flush mounting, fixed from front

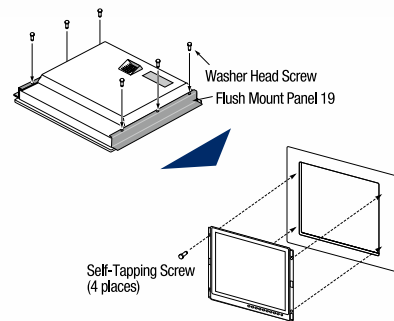
MU-150HD/152/190HD

Drawing: MU-150HD

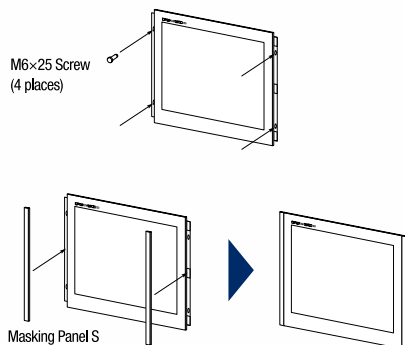


MU-190/231

Drawing: MU-190



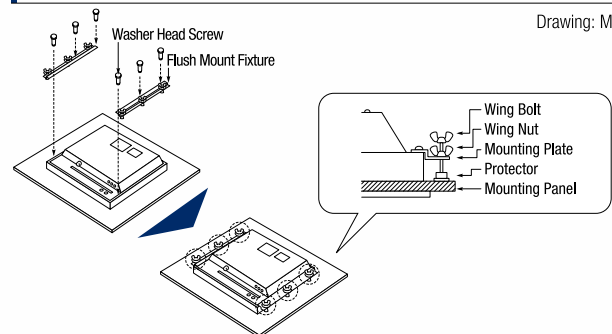
MU-270W



Flush mounting, fixed from rear*

MU-150HD/152/190HD/190/190V/231/270W

Drawing: MU-190



* Optional for MU-190/231/270W, standard for MU-150HD/152/190HD/190V

SPECIFICATIONS OF MU-DISPLAY series

DISPLAY CHARACTERISTICS	MU-150HD	MU-152	MU-190HD
Screen Size	15 inches, landscape	15 inches, landscape	19 inches, landscape
Resolution	XGA (1024 x 768)	XGA (1024 x 768)	SXGA (1280 x 1024)
Contrast Ratio (typical)	600 : 1	900 : 1	900 : 1
Viewing Angle (typical)	left/right and up/down: 80° or more		
Max Brightness (typical)	1000 cd/m ²	400 cd/m ²	1000 cd/m ²

INTERFACE

Analog RGB (D-SUB/15 pins)	1 port	1 port	1 port
DVI (DVI-D)	2 ports	2 ports	2 ports
Composite Video (NTSC/PAL)	3 ports	3 ports	3 ports
Built-in Scaler	VGA to SXGA	VGA to SXGA	VGA to SXGA

POWER SUPPLY

	12-24 VDC 2.8 - 1.4 A	12-24 VDC 1.9 - 0.9 A	12-24 VDC 8.4 - 3.9 A
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ENVIRONMENT (IEC 60945 test method)

Temperature	-15°C to +55°C
Waterproofing	IP56 (CFR46, front panel), IP22 (rear panel)

EQUIPMENT LIST

Standard

1. Display Unit
2. Flush Mount Kit (for fixing at rear)
3. Installation Materials, Accessories and Spare Parts

Option

1. Cable Assembly
2. Bracket Assembly (w/knobs)
3. Hood Assembly
4. Flush Mount Kit (for fixing at front)

DISPLAY CHARACTERISTICS	MU-190V	MU-190	MU-231	MU-270W
Screen Size	19 inches, portrait	19 inches, landscape	23.1 inches, landscape	27 inches, landscape
Resolution	SXGA (1280 x 1024)	SXGA (1280 x 1024)	UXGA (1600 x 1200)	WUXGA (1920 x 1200)
Contrast Ratio (typical)	900 : 1	900 : 1	600 : 1	1500 : 1
Viewing Angle (typical)	left/right and up/down: 80° or more			left/right and up/down: 85° or more
Max Brightness (typical)	500 cd/m ²	450 cd/m ²	400 cd/m ²	400 cd/m ²

INTERFACE

Analog RGB (D-SUB/15 pins)	1 port	1 port	1 port	1 port
DVI (DVI-D)	2 ports	2 ports	2 ports	2 ports
Composite Video (NTSC/PAL)	1 port	1 port	1 port	1 port
Built-in Scaler	VGA to SXGA	VGA to SXGA	VGA to UXGA	SVGA to WUXGA

POWER SUPPLY

	12-24 VDC 5.0 - 2.5 A	100-230 VAC 0.7 - 0.4A	100-230 VAC 1.0 - 0.6 A	100-230 VAC 0.7 - 0.4 A
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ENVIRONMENT (IEC 60945 test method)

Temperature	-15°C to +55°C
Waterproofing	IP22

EQUIPMENT LIST

Standard

1. Display Unit
2. Flush Mount Kit
(for fixing at rear)
3. Installation Materials,
Accessories and Spare Parts

Option

1. Cable Assembly
2. Bracket Assembly (w/knobs)
3. Hood Assembly

Standard

1. Display Unit
2. Flush Mount Kit (for fixing at front)
3. Installation Materials, Accessories and Spare Parts

Option

1. Cable Assembly
2. Bracket Assembly (w/knobs for MU-190)
3. Hood Assembly
4. Dust Cover
5. Flush Mount Kit (for fixing at rear)

Standard

1. Display Unit
2. Installation Materials,
Accessories and Spare Parts

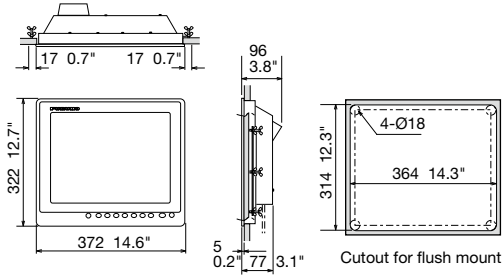
Option

1. Cable Assembly
2. Bracket Assembly
3. Hood Assembly
4. Dust Cover
5. Flush mount Kit
(for fixing at rear)

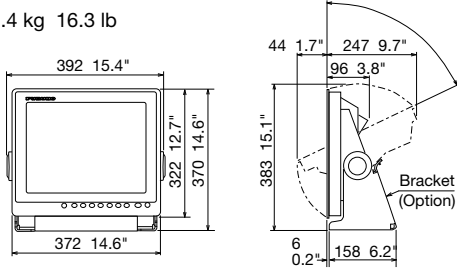
*MU-152/190/190V/231/270W cannot be installed outside.

DIMENSIONS AND WEIGHT

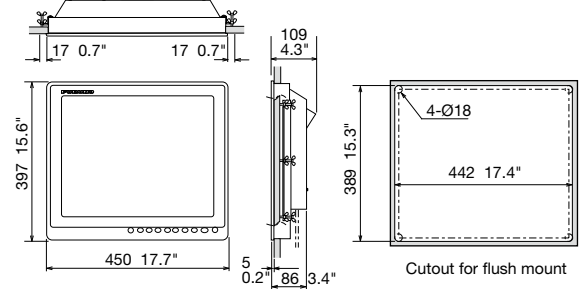
MU-150HD
Flush Mount 5.4 kg 11.9 lb



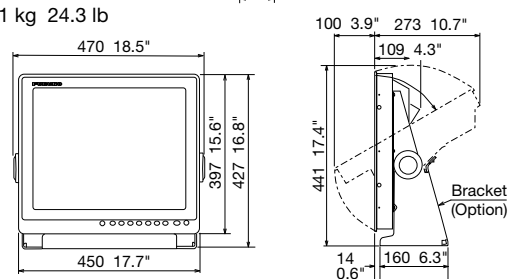
Bracket Mount 7.4 kg 16.3 lb



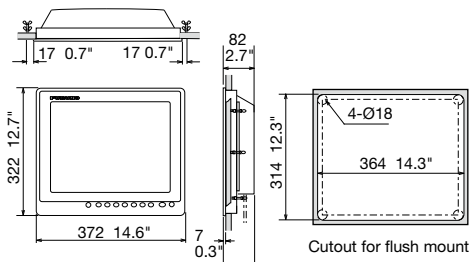
MU-190HD
Flush Mount 8.2 kg 18.1 lb



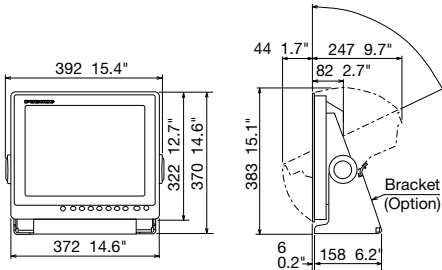
Bracket Mount 11 kg 24.3 lb



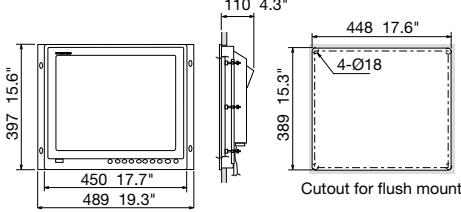
MU-152
Flush Mount 4.9 kg 10.8 lb



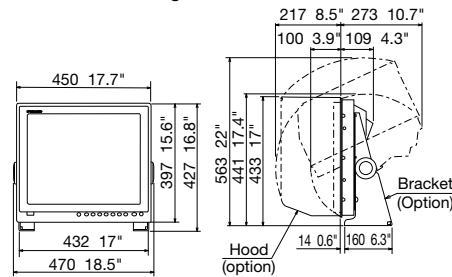
Bracket Mount 6.9 kg 15.2 lb



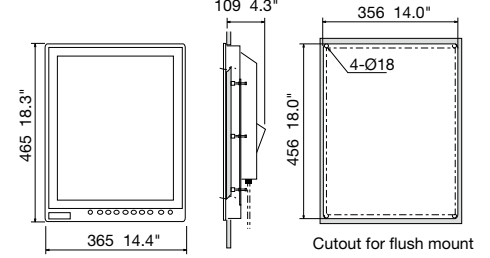
MU-190
Flush Mount 8.8 kg 19.4 lb



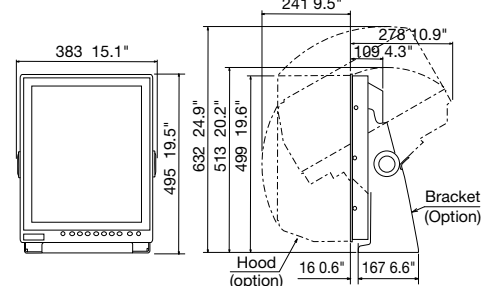
Bracket Mount 11 kg 24.3 lb



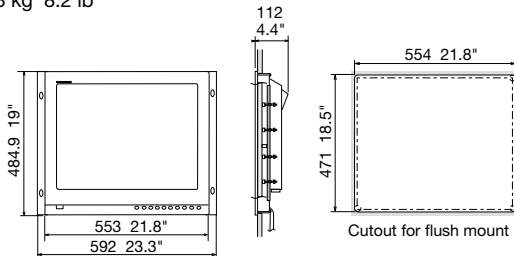
MU-190V
Flush Mount 8.0 kg 17.6 lb



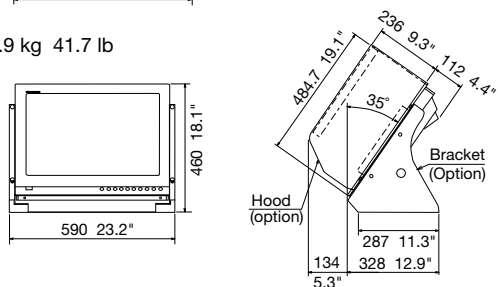
Bracket Mount 11.0 kg 24.3 lb



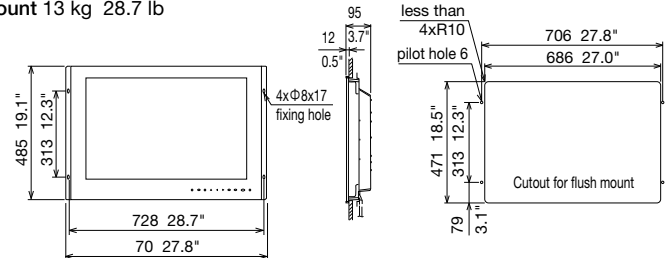
MU-231
Flush Mount 2.8 kg 8.2 lb



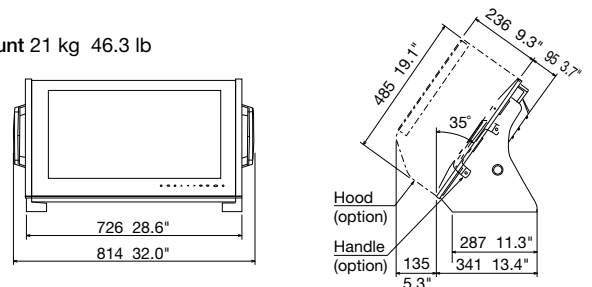
Bracket Mount 18.9 kg 41.7 lb



MU-270W
Flush Mount 13 kg 28.7 lb



Bracket Mount 21 kg 46.3 lb





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