FURUNO

MU-DISPLAYseries

MARINE DISPLAY

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

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.
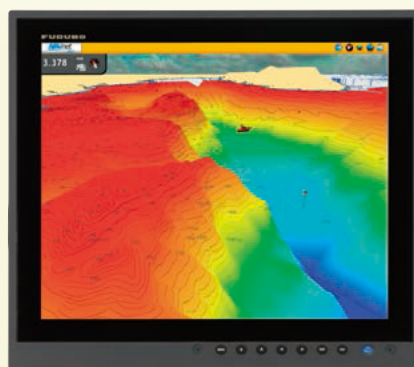
These displays may be used as either the main or remote display for a variety of marine equipment such as BlackBox Radar, Sounder, Sonar and NavNet series. They can also be used for displaying images from security cameras, DVD player, computers, etc.
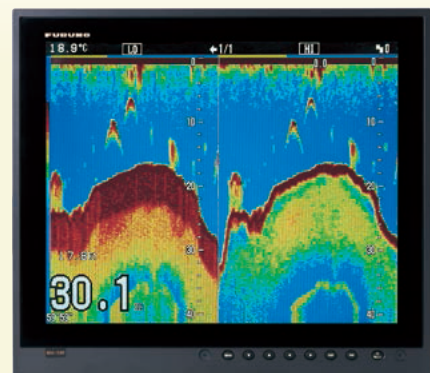
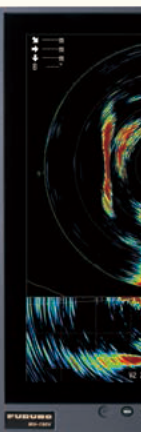*for MU-150HD and MU-190HD

MU-DISPLAY series
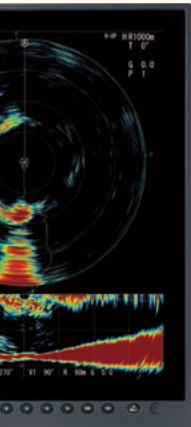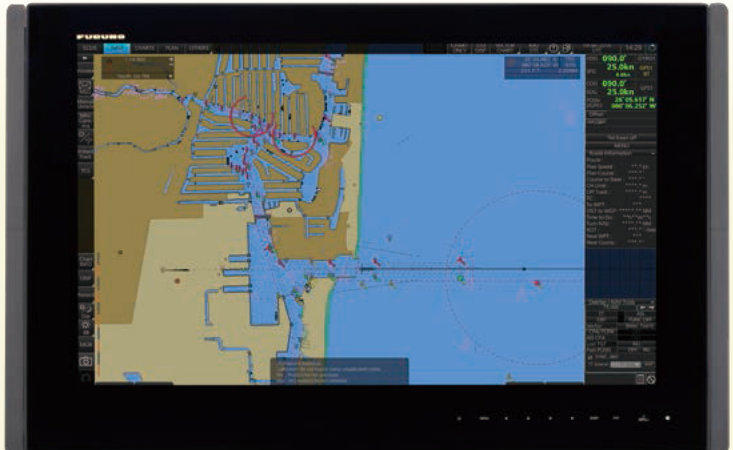
Model MU-150HD   Model MU-190HD   Model MU-190   Model M

	MU-150HD	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/m² 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 UXGA	SVGA to WUXGA
Selectable inputs including RGB analog, DVI (Digital Video Interface) and Composite	✓	✓	✓	✓	✓	✓

U-190V

Model MU-231

Model MU-270W

Features

15"

XGA (1024 x 768)

Model MU-150HD

Enhanced Sunlight Viewable | Bonded LCD | VIDEO IN
1000 cd/m²

19"

SXGA (1280 x 1024)

Model MU-190HD

Enhanced Sunlight Viewable | Bonded LCD | VIDEO IN
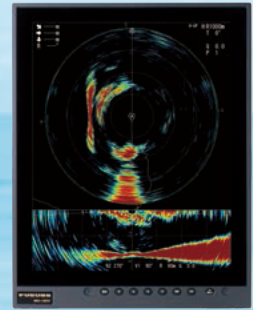1000 cd/m²

SXGA (1280 x 1024)
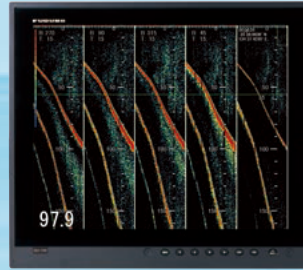
Model MU-190

VIDEO IN

SXGA (1280 x 1024)
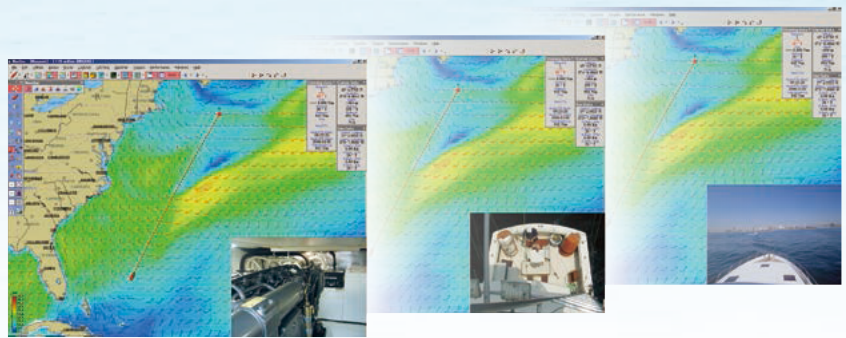

Model MU-190V

VIDEO IN

Picture In Picture (PIP)
: MU-150HD/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/190HD with more than two Composite Video Inputs, the images in the PIP window automatically switch alternately.

Low power consumption
: MU-150HD/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/190HD

The MU-150HD/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/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

23.1"

UXGA (1600 x 1200)

Model MU-231

27"

WUXGA (1920 x 1200)
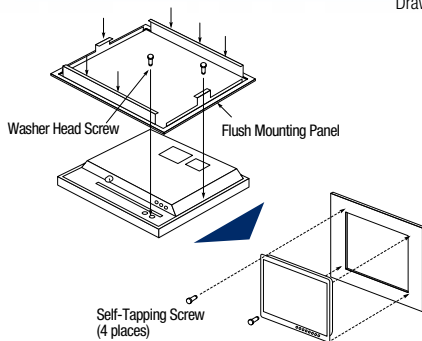

Model MU-270W

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/190HD/190/190V/231/270W.
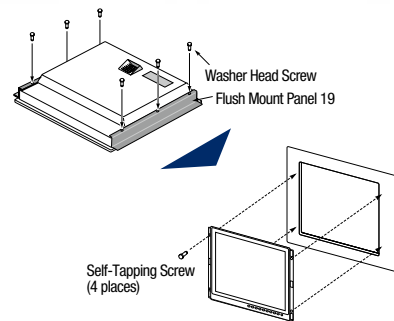
Flush mounting, fixed from front
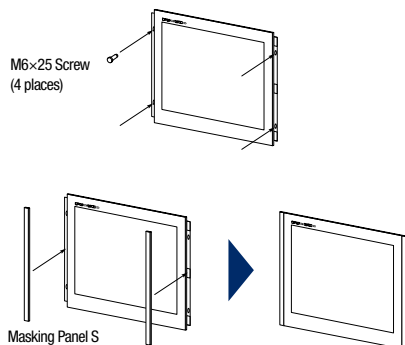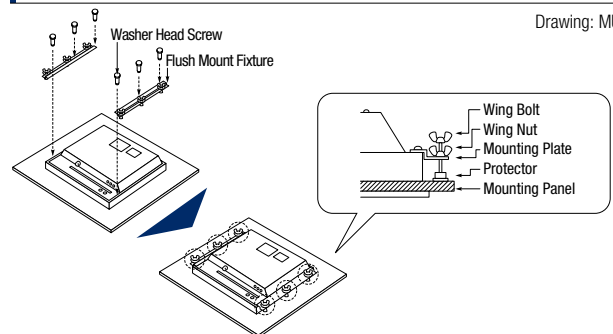
MU-150HD/190HD

Drawing: MU-150HD

Washer Head Screw
Flush Mounting Panel
Self-Tapping Screw (4 places)

MU-190/231

Drawing: MU-190

Washer Head Screw
Flush Mount Panel 19
Self-Tapping Screw (4 places)

MU-270W

M6×25 Screw (4 places)

Masking Panel S

Flush mounting, fixed from rear*

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

Drawing: MU-190

Washer Head Screw
Flush Mount Fixture

Wing Bolt
Wing Nut
Mounting Plate
Protector
Mounting Panel

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

SPECIFICATIONS OF MU-DISPLAY series

DISPLAY CHARACTERISTICS	MU-150HD	MU-190HD
Screen Size	15 inches, landscape	19 inches, landscape
Resolution	XGA (1024 x 768)	SXGA (1280 x 1024)
Contrast Ratio (typical)	600 : 1	900 : 1
Viewing Angle (typical)	left/right and up/down: 80° or more	
Max Brightness (typical)	1000 cd/m²	

INTERFACE		
Analog RGB (D-SUB/15 pins)	1 port	1 port
DVI (DVI-D)	2 ports	2 ports
Composite Video (NTSC/PAL)	3 ports	3 ports
Built-in Scaler	VGA to SXGA	VGA to SXGA
POWER SUPPLY	12-24 VDC	12-24 VDC
	4.5 - 2.2 A	8.4 - 3.9 A

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/m²	450 cd/m²	400 cd/m²	400 cd/m²

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	100-230 VAC	100-230 VAC	100-230 VAC
	5.0 - 2.5 A	0.7 - 0.4A	1.0 - 0.6 A	0.7 - 0.4 A

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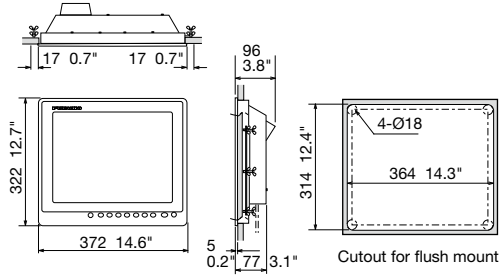
Option
1. Cable Assembly
2. Bracket Assembly
3. Hood Assembly
4. Dust Cover
5. Flush mount Kit (for fixing at rear)

*MU-190/190V/231/270W cannot be installed outside.
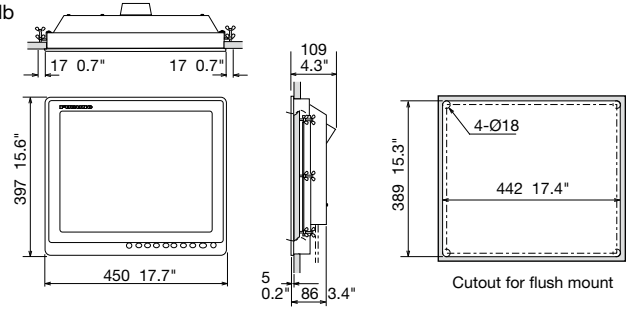
DIMENSIONS AND WEIGHT
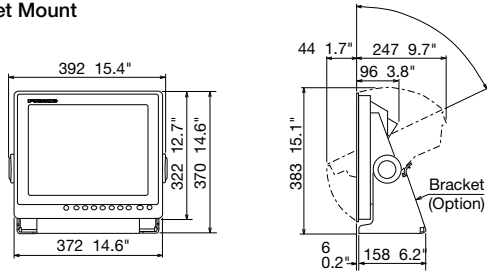
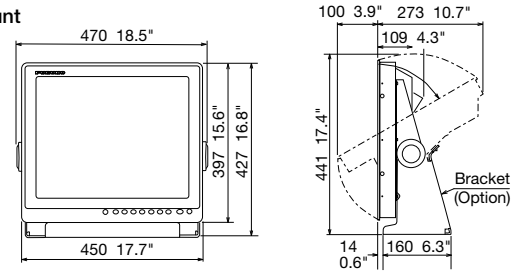### MU-150HD Flush Mount
5.4 kg 11.9 lb

Cutout for flush mount

MU-150HD Bracket Mount
7.4 kg 16.3 lb

Bracket (Option)

MU-190 Flush Mount
8.8 kg 19.4 lb

Cutout for flush mount

MU-190 Bracket Mount
11 kg 24.3 lb

Bracket (Option)
Hood (option)

MU-231 Flush Mount
12.8 kg 28.2 lb

Cutout for flush mount

MU-231 Bracket Mount
18.9 kg 41.7 lb

Bracket (Option)
Hood (option)

MU-190HD Flush Mount
8.2 kg 18.1 lb

Cutout for flush mount

MU-190HD Bracket Mount
11 kg 24.3 lb

Bracket (Option)
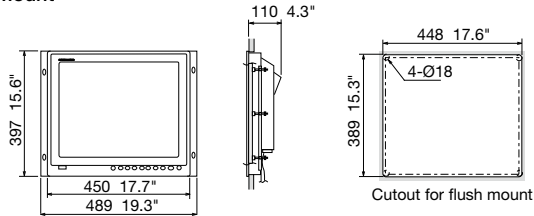
MU-190V Flush Mount
8.0 kg 17.6 lb

Cutout for flush mount
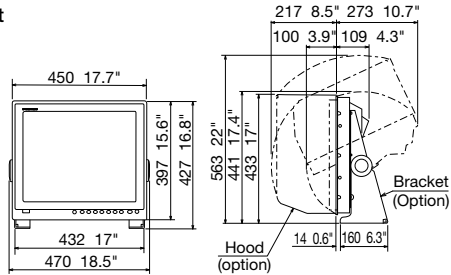
MU-190V Bracket Mount
11.0 kg 24.3 lb

Bracket (Option)
Hood (option)
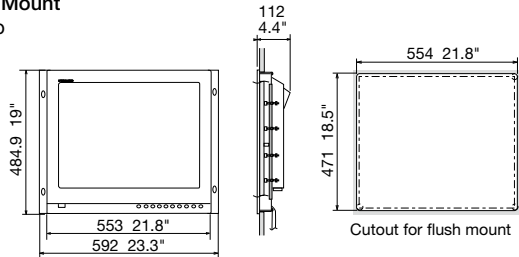
MU-270W Flush Mount
13 kg 28.7 lb

Cutout for flush mount
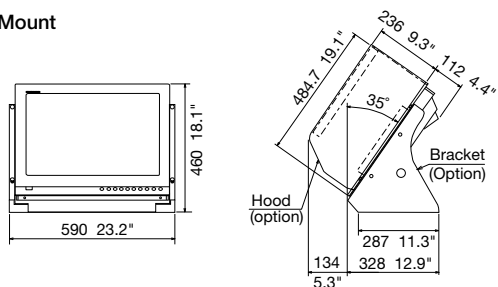
MU-270W Bracket Mount
21 kg 46.3 lb
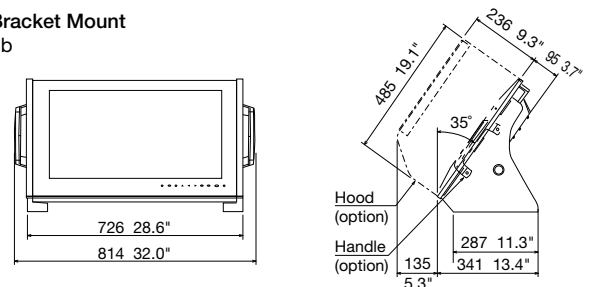
Hood (option)
Handle (option)

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE