



USER MANUAL

Marine Display

NDU-190

NDU-240

NDU-260

NOTICE TO USERS

- Thanks for purchasing this product NDU-190/NDU-240/NDU-260 marine display.
- The copyright of this manual is owned by the manufacturer, NEW SUNRISE CO., LTD (NSR). Prior written permission is required for copying or reproducing the manual or part of the manual.
- The product version may be some different from that described in this manual. Such differences will not affect the performance of the product. NSR reserves the right to continuous improvement on products both in software and in hardware without any prior notice.
- NSR does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage, such as caused by improper use or modification of the product or claims of loss of profit by a third party.
- Please read this manual carefully to ensure proper use before installation and use of the product.
- Please keep the manual for your future reference.

Safety Instructions for the Operator



Warning

Keep away from heat source or direct sunshine.



Prohibition

Don't open the equipment. Only qualified personnel should work inside the equipment.
Don't disassemble or try to modify the equipment.



Dangerous

Turn off the power immediately when smoke or fire is emitted.

MODIFY RECORD

No.	Modify by	Date	Paragraph	Version	Reason
1	Q/A	2025/03/20		01	First edition

TABLE OF CONTENTS

1. OVERVIEW	1
2. SPECIFICATIONS	2
3. BASIC OPERATION	3
3.1 Display Description.....	3
3.2 Power ON/OFF.....	4
3.3 Brightness Adjustment	4
3.4 Basic Menu Operation.....	5
4. INSTALLATION	6
APPENDIX I MENU TREE.....	7
APPENDIX II INSTALLATION DRAWINGS.....	8

1. OVERVIEW

NDU-190/NDU-240/NDU-260 (hereinafter NDU-XX0) can be used as displays for a wide range of applications such as ECDIS and radar. It complies with the standard of IEC 60945, etc.

The main features are as follows:

- Multi-size displays to satisfy different vessels.
- Large color LCD with touchscreen operation.
- Dual power supply (AC 110/220V, DC 24V), automatic switching.
- Brightness control on the panel, convenient for night navigation.

Equipment List of NDU-XX0:

No.	Item	Type	Q'ty	Remarks
1	Marine Display	NDU-190	1	One of three, standard
		NDU-240	1	
		NDU-260	1	
2	Table mounting bracket	NFB190	1	For NDU-190, optional
		NFB240	1	For NDU-240, optional
		NFB260	1	For NDU-260, optional

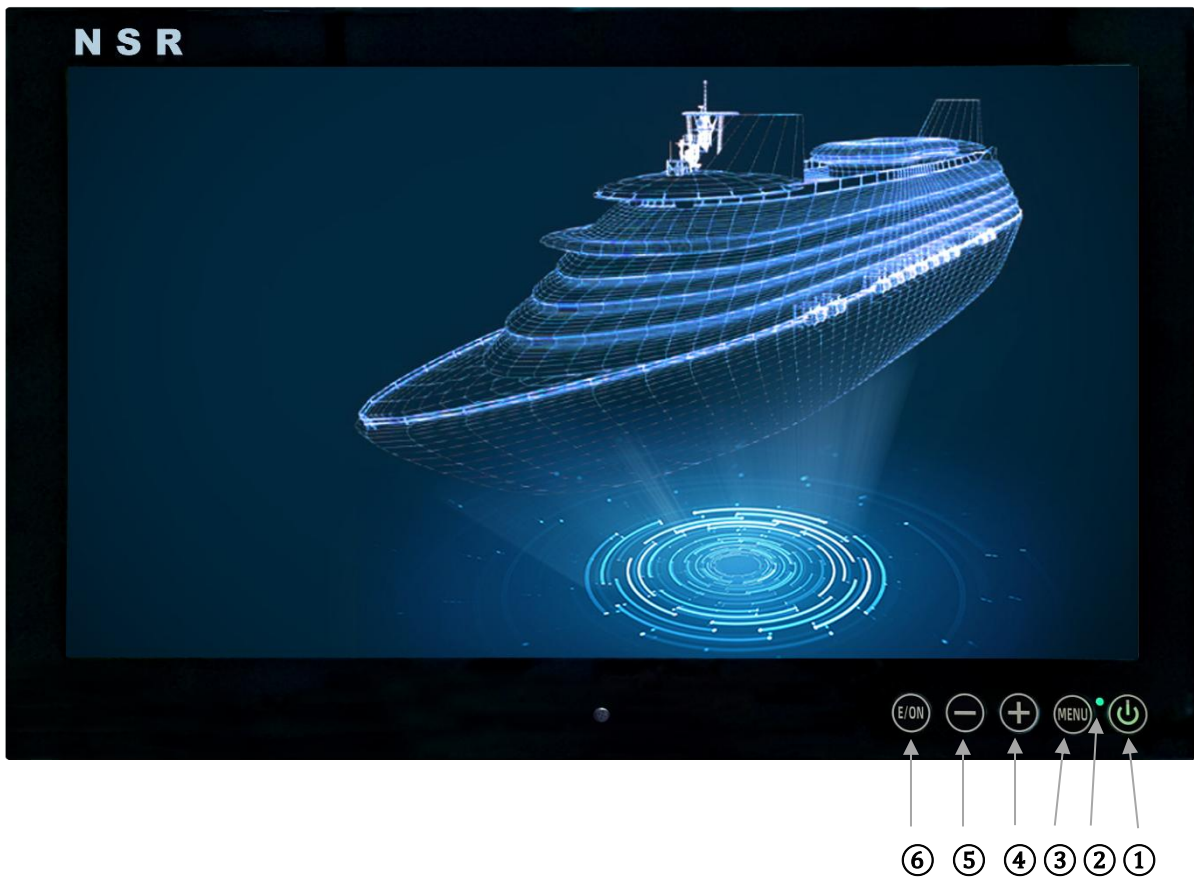
2. SPECIFICATIONS

ITEM	NDU-190	NDU-240	NDU-260
Display	19-inch color LCD	24-inch color LCD	26-inch color LCD
Active Display Area (width x height)	374.8 (w) x 299.8 (h) mm	527.0 (w) x 295.4 (h) mm	597.8 (w) x 336.3 (h) mm
Resolution (recommended)	SXGA (1280 x 1024)	HD (1920 x 1080)	HD (1920 x 1080)
Brightness	400 nits	600 nits	350 nits
Contrast	700:1		
View Angle	170		
Interface	RGB Analog x 1, DVI-D x 1, HDMI x 1, USB x 3, Audio Signal x 1, M/B x 1 (for restart)		
Power Supply	100-230VAC/0.5A, 30W 24VDC/1.5A, 30W	100-230VAC/0.6A, 40W 24VDC/2A, 45W	100-230VAC/0.5A, 30W 24VDC/1.5A, 30W
Weight (without bracket)	about 8.25kg	about 9.8kg	about 12.5kg
Environmental Conditions	Operating Temperature: -20°C ~ +70°C Storage Temperature: -25°C ~ +70°C Humidity: ≤90% RH (38°C)		

3. BASIC OPERATION

3.1 Display Description

NDU-XX0 display can be operated with keys on the panel or touch-screen.



No	Key / Indicator	Description
①		Power key. Please refer to Section 3.2. Light on: When the display is powered. Light in green: When a video signal is input. Light in red: When no video signal is input.
②		Input power indicator. Green (●): AC input only. Blue (●): DC input only. Cyan (●): Both AC & DC inputs.

No	Key / Indicator	Description
③		Menu and Enter key. Please refer to Section 3.4. Press to enter the menu window or the selected setting item in the menu.
④		<ul style="list-style-type: none"> Brightness adjustment. Please refer to Section 3.3. Menu or setting item selection. Please refer to Section 3.4.
⑤		
⑥		<ul style="list-style-type: none"> ESC key: Press to Exit or return to the previous menu. Brightness quick adjustment (3-step). Please refer to Section 3.3. Main unit startup: Press and hold for 5 seconds to start the main unit, for example, ECDIS.

3.2 Power ON/OFF

- Power On

Press key shortly to power on the display.

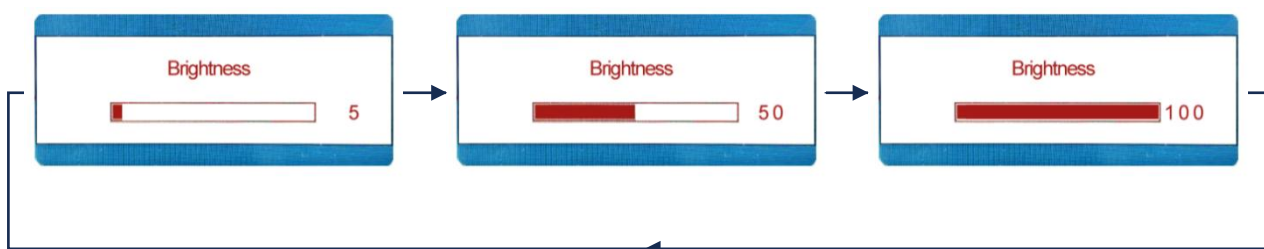
- Power Off / Restart

Press and hold key for 3s to power off the display.


3.3 Brightness Adjustment

Press / key to open the screen brightness setting item directly and adjust the screen to brighten or darken.








Or, switch 5%, 50%, and 100% brightness quickly by pressing key as follows:



3.4 Basic Menu Operation

- 1) Press  key to enter the menu window. It includes [Luminance], [Image Setup], [Color Setup], [OSD Setup], [Reset], and [Extra] items. For example:



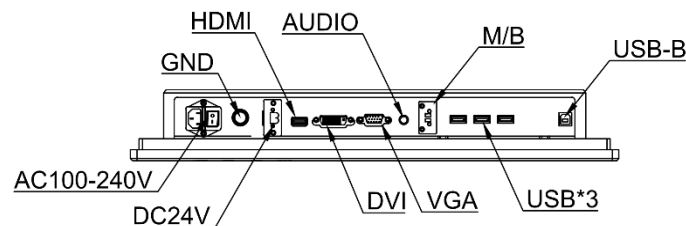
- 2) Press  /  key to select the desired menu, then press  key to enter the selected menu. You can also operate it with the touchscreen.
- 3) Press  /  key to select the setting item or parameter. Press  key to enter the selected item for setting. You can also operate it with the touchscreen.
- 4) Press  key to return to the previous menu.

4. INSTALLATION

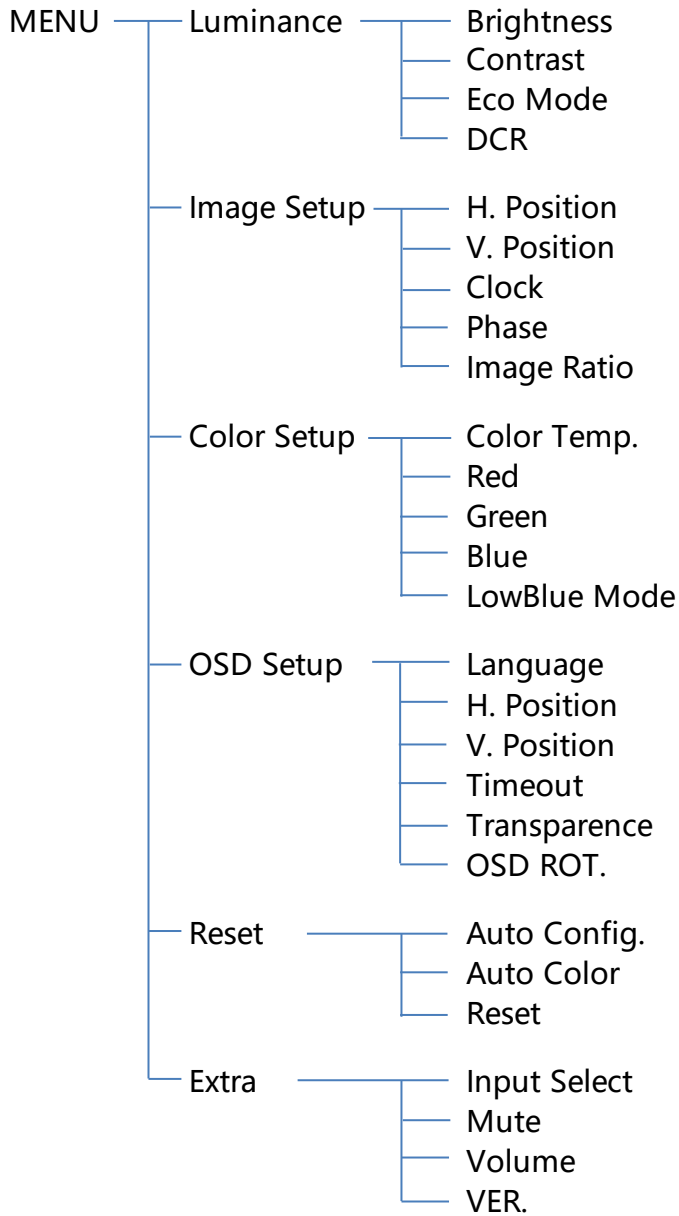
NDU-XX0 is a plug-and-play display. It can be installed on a table-top, or in flush-type. Refer to the outline drawings at the end of this manual for installation instructions. When selecting a mounting location, keep in mind the following points:

- Locate the unit away from exhaust pipes and vents.
- The mounting location should be well-ventilated.
- Mount the unit where shock and vibration are minimal.
- Locate the unit away from equipment that generates electromagnetic fields such as a motor or generator.
- Allow sufficient maintenance space at the sides and rear of the unit and leave sufficient slack in cables, to facilitate maintenance and servicing.
- Observe the following compass safe distances to prevent deviation of a magnetic compass. Standard compass: 0.5 m, Steering compass: 0.3 m.

NDU-XX0 interface:



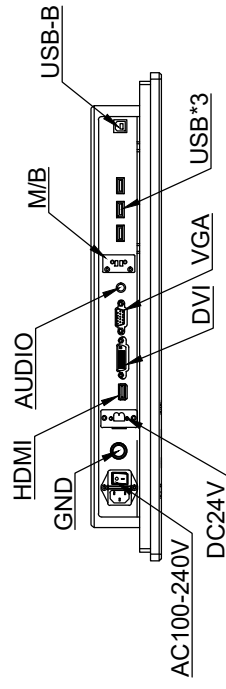
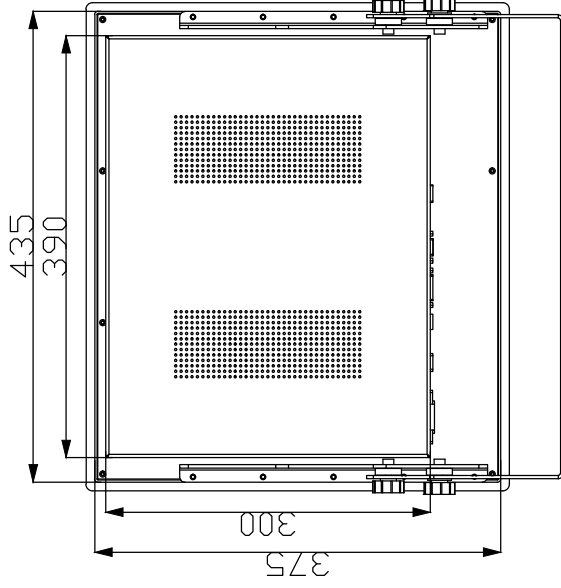
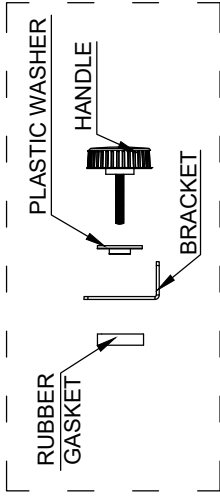
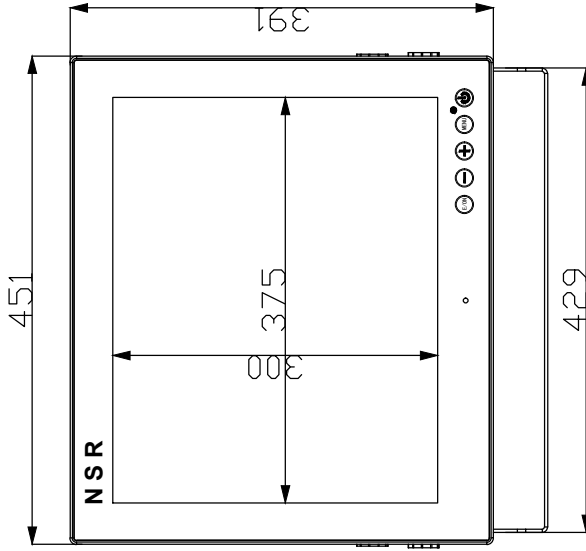
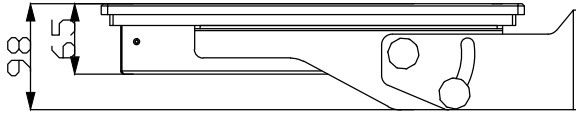
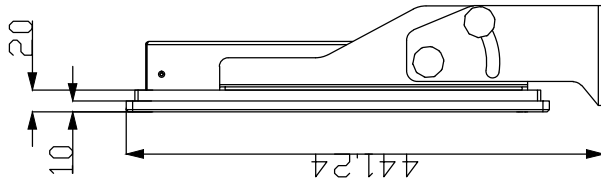
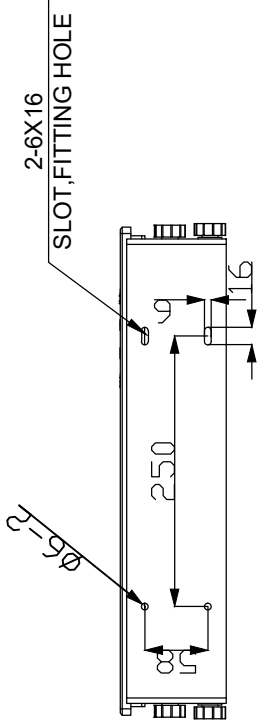
APPENDIX I MENU TREE




APPENDIX II INSTALLATION DRAWINGS

Drawing No.	Description
NDUXX0-ID-001	NDU-190 MARINE DISPLAY SIZE DRAWING
NDUXX0-ID-002	NDU-190 MARINE DISPLAY MOUNTING DRAWING
NDUXX0-ID-003	NDU-240 MARINE DISPLAY SIZE DRAWING
NDUXX0-ID-004	NDU-240 MARINE DISPLAY MOUNTING DRAWING
NDUXX0-ID-005	NDU-260 MARINE DISPLAY SIZE DRAWING
NDUXX0-ID-006	NDU-260 MARINE DISPLAY MOUNTING DRAWING

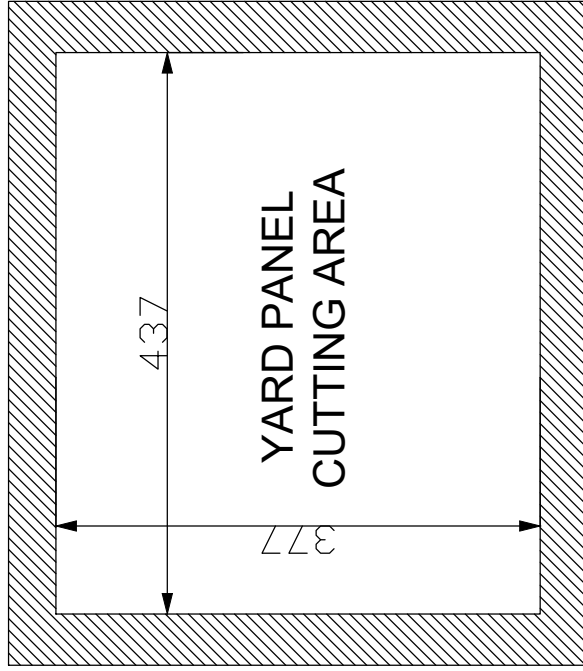
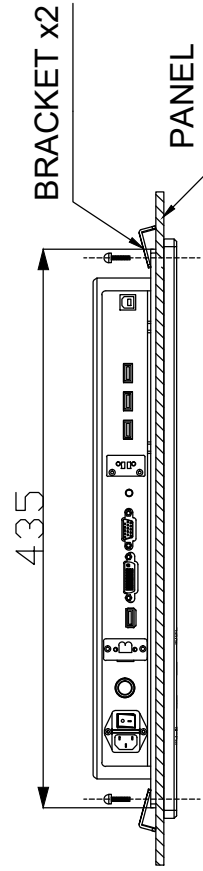
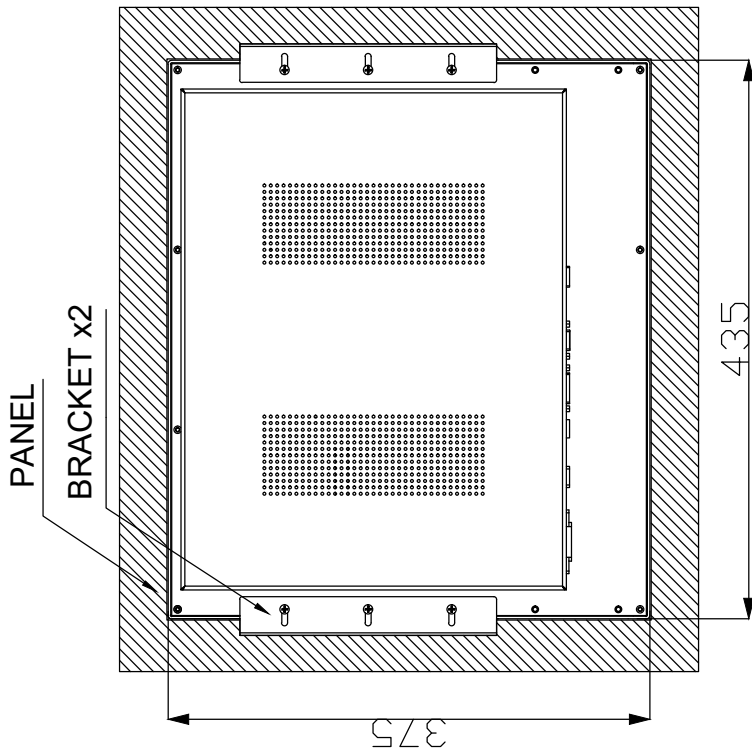
MARINE DISPLAY 19'




APPLICATION		NDU-190 MARINE DISPLAY SIZE DRAWING			
DATE	ITEM	SCALE	UNIT	UNIT	SIZE
APPROVAL	DATE	DATE	DATE	DATE	DATE
CHECKED	DATE	DATE	DATE	DATE	DATE
DRAWING	DATE	DATE	DATE	DATE	DATE
DATE	DATE	DATE	DATE	DATE	DATE
 NEW SUNRISE CO., LTD. <small>NDUXXG-ID-001</small>					

NOTE: TABLE TYPE

MARINE DISPLAY 19'



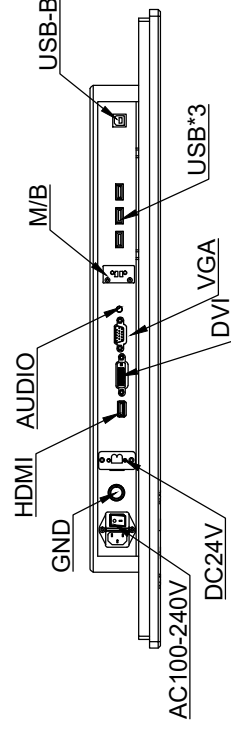
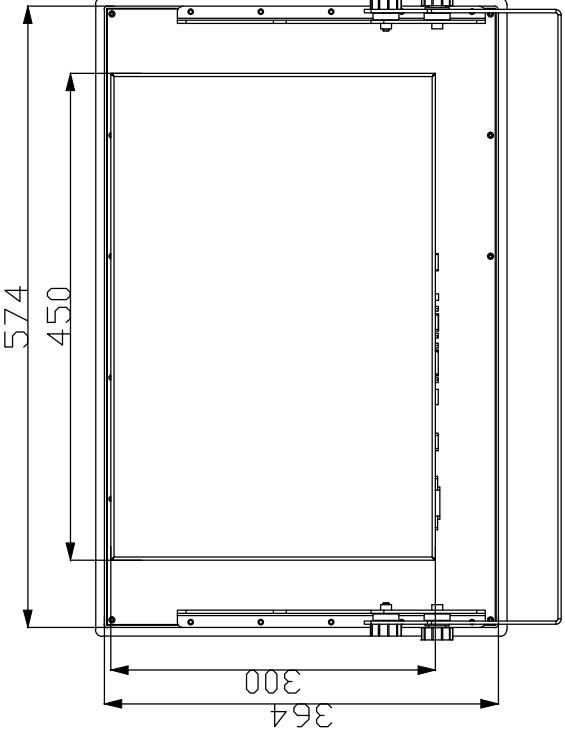
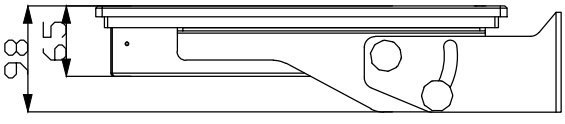
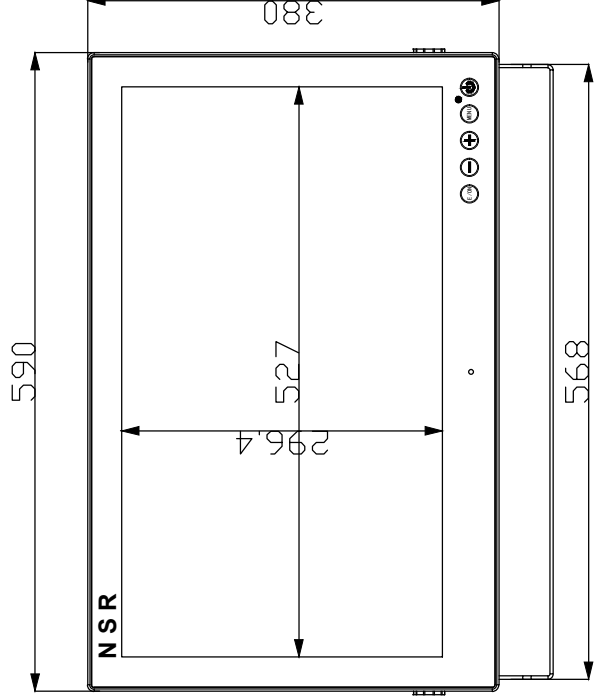
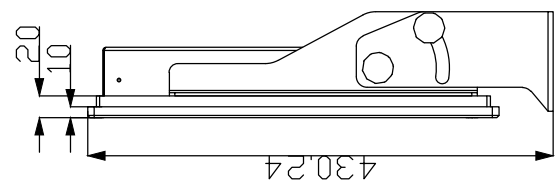
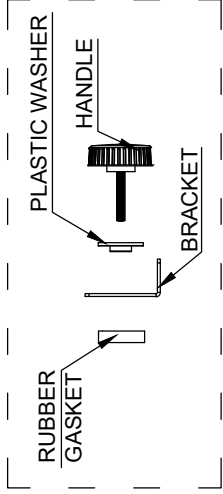
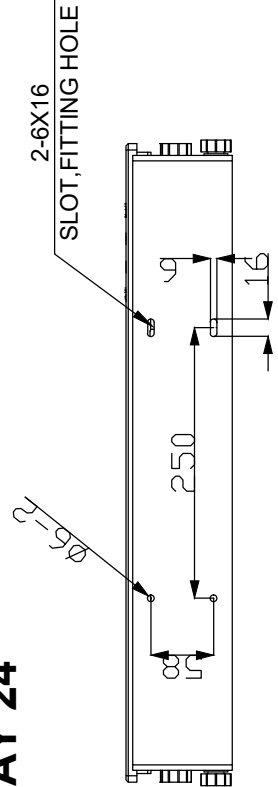
NO.	DATE	REVISION & DESCRIPTION	REVIEWED	CHECKED
1				

APPLICATION					NDU-190 MARINE DISPLAY MOUNTING DRAWING				
DATE	ITEM	SCALE	INCH	MM	UNIT	MM	INCH	UNIT	MM
APPROVAL	CHECKED	DRAWING	DATE	SCALE	UNIT	MM	INCH	UNIT	MM
 NSR NEW SUNRISE CO., LTD.									
NDUXX0-ID-002									

NOTE: FLUSH TYPE

MARINE DISPLAY 24'

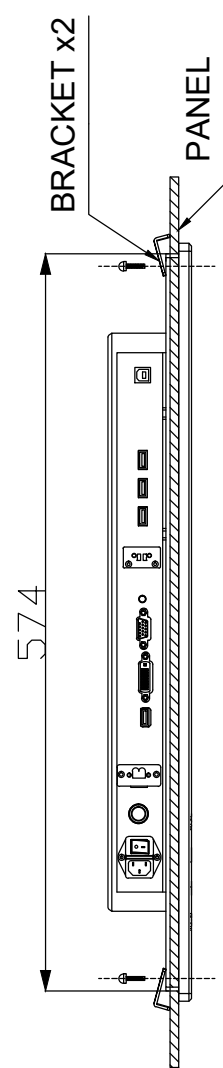
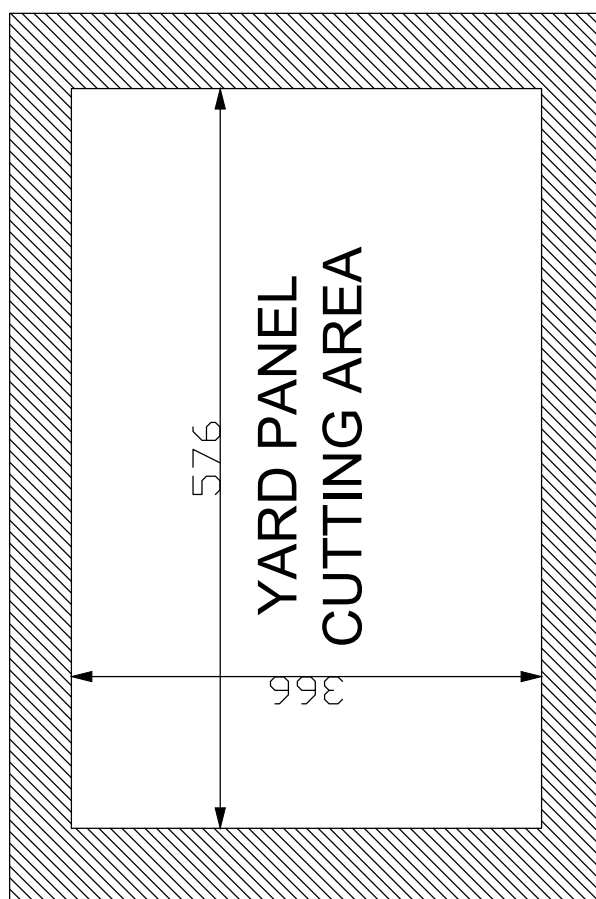
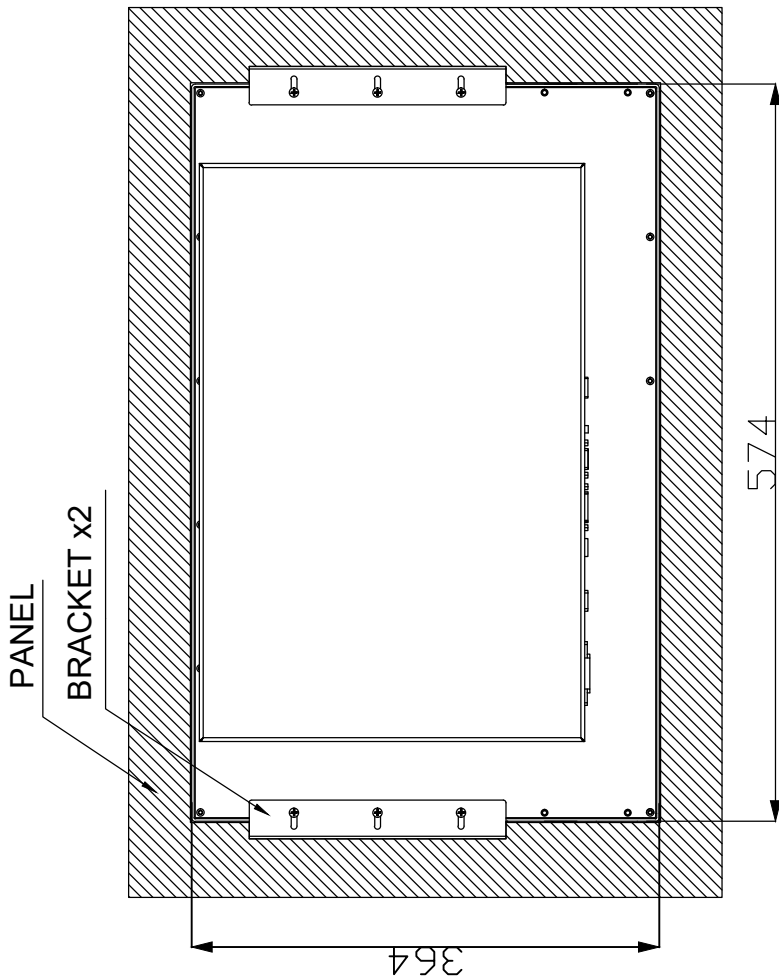
NO.	DATE	REVISION & DESCRIPTION	CHECKED SIGNATURE



NOTE: TABLE TYPE

APPLICATION		NDU-240 MARINE DISPLAY SIZE DRAWING	
DATE	ITEM	SCALE	SIZE
APPROVAL	DATE	UNIT	MM
CHECKED	DATE	UNIT	MM
DRAWING	DATE	UNIT	MM
DATE	UNIT	MM	MM
N S R NEW SUNRISE CO., LTD.			
NDUXXG-ID-003			

MARINE DISPLAY 24'



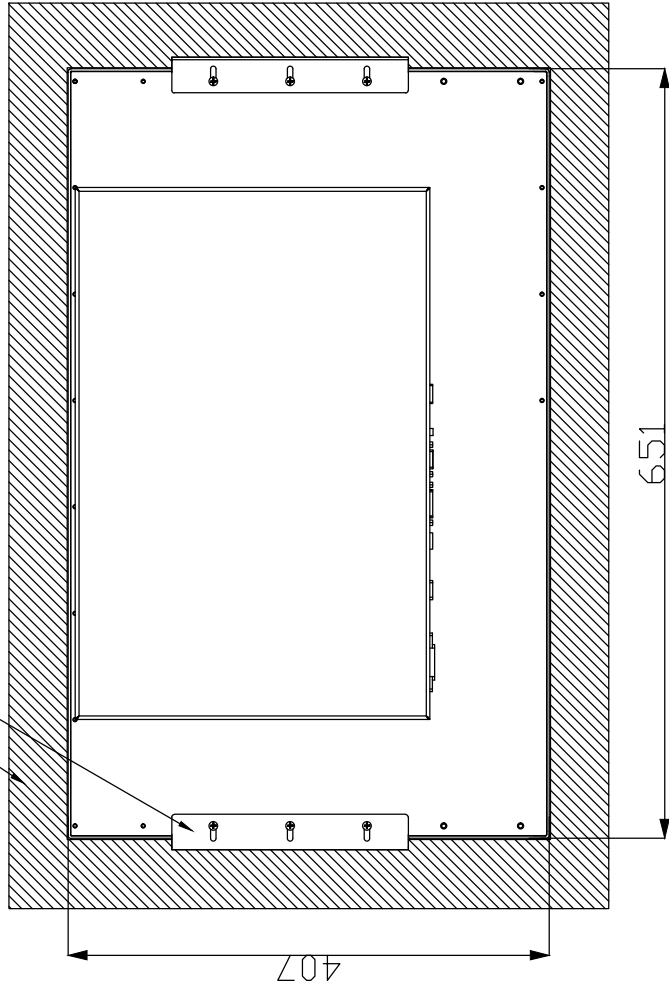
NOTE: FLUSH TYPE

NO.	DATE	REVISION & DESCRIPTION	REVIEWED	CHECKED
1				

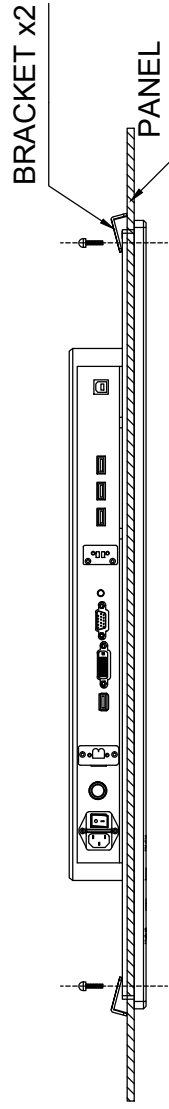
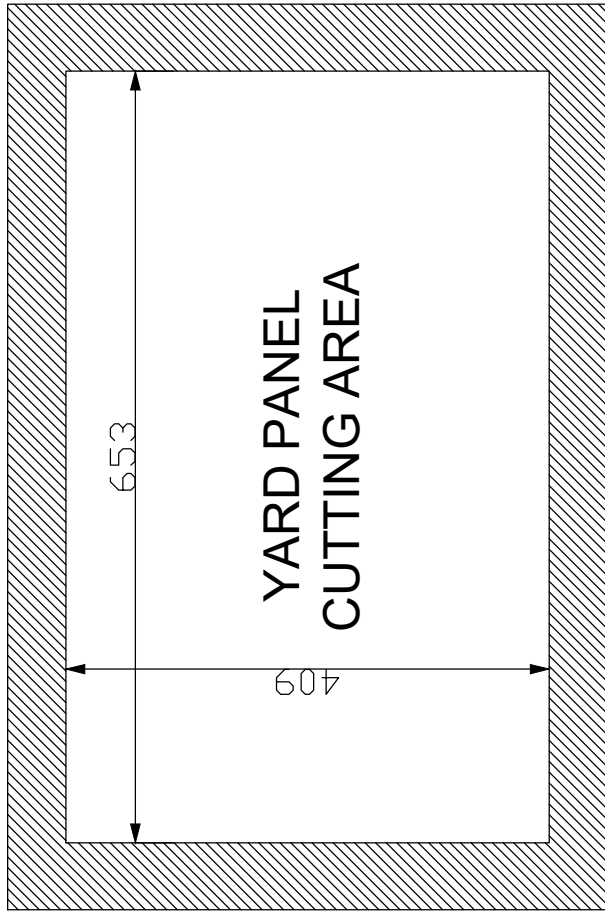
APPLICATION		NDU-240 MARINE DISPLAY MOUNTING DRAWING			
DATE	ITEM	SCALE	UNIT	SIZE	MA
APPROVAL	ISS	1:1	INCH	11x17	1:1
CHECKED	DATE	NEW SUNRISE CO., LTD.			
DRAWING	NO.	NDUXX0-ID-004			
DATE					

MARINE DISPLAY 26'

PANEL
BRACKET x2



YARD PANEL
CUTTING AREA



NOTE: FLUSH TYPE

NO.	DATE	REVISION & DESCRIPTION	REVIEWED	CHECKED	SIGNATURE
1					

APPLICATION		NDU-260 MARINE DISPLAY MOUNTING DRAWING			
DATE	ITEM	SCALE	MAX	UNIT	SIZE
APPROVAL					
CHECKED					
DRAWING					
DATE					
NDUXX0-ID-006					

NSR
NEW SUNRISE CO., LTD.

Copyright by NEW SUNRISE CO., LTD. (NSR)

www.nsrmarine.com

info@nsrmarine.com

March, 2025



Manual Download