



Grass Valley

VF 800-H

VF 8-100-H

VF 8-Series 7" FHD LCD Viewfinder

User Guide

13-00186-000 AA

2024-04-03

www.grassvalley.com

FCC Compliance

In order to comply with FCC/CFR47: Part 15 regulations, it is necessary to use high-quality, triple-screened Media or Monitor cable assemblies with integrated ferrite suppression at both ends.

Patent Information

This product may be protected by one or more patents.

For further information, please visit: www.grassvalley.com/patents/

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Warranty information is available from the Legal Terms and Conditions section of Grass Valley's website (www.grassvalley.com).

Title VF 800-H and VF 8-100-H User's Guide

Part Number 13-00186-000 AA

Revision 2024-04-03, 13:59

Environmental Information

European (CE) WEEE directive.



This symbol on the product(s) means that at the end of life disposal it should not be mixed with general waste.

Visit www.grassvalley.com for recycling information.

Grass Valley believes this environmental information to be correct but cannot guarantee its completeness or accuracy since it is based on data received from sources outside our company. All specifications are subject to change without notice.

If you have questions about Grass Valley environmental and social involvement (WEEE, RoHS, REACH, etc.), please contact us at environment@grassvalley.com.

Safety and EMC Standards

This equipment complies with the following standards:

Safety Standards



Information Technology Equipment - Safety Part 1

IEC62368-1:2018

Safety of Information Technology Equipment Including Electrical Business Equipment.

EMC Standards

This unit conforms to the following standards:

EN55032:2012 + C2:2013 (Class A)

Electromagnetic Compatibility of multimedia equipment - Emission requirements

EN55103-2:2009 (Environment E2)

Electromagnetic Compatibility, Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. Part 2. Immunity

WARNING

This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

FCC / CFR 47:Part 15 (Class A)

Federal Communications Commission Rules Part 15, Subpart B

Caution to the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

following the provisions of:

- the Low Voltage directive 2014/35/EU
- the EMC directive 2014/30/EU

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the 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.

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1 Introduction

Overview

The VF 800-H and VF 8-100-H is a high quality, flat panel full HD color viewfinder. Its light-weight construction, multi-format compatibility and its high brightness performance make this viewfinder a perfect match for EFP/portable, studio and outside broadcast applications.

The VF 800-H viewfinder is designed to work with Grass Valley's LDX 90 Series cameras, while VF 8-100-H viewfinder is for Grass Valley's LDX 100 Series cameras. It accommodates all required HD frame rates and video modes. The supplied sun hood provides excellent shading fit for outdoor situations while its 7-inch diagonal screen size makes fast and accurate focusing easy.

Compact design

The compact design allows for great operator flexibility with wide panning and tilting angles.

Zoom function

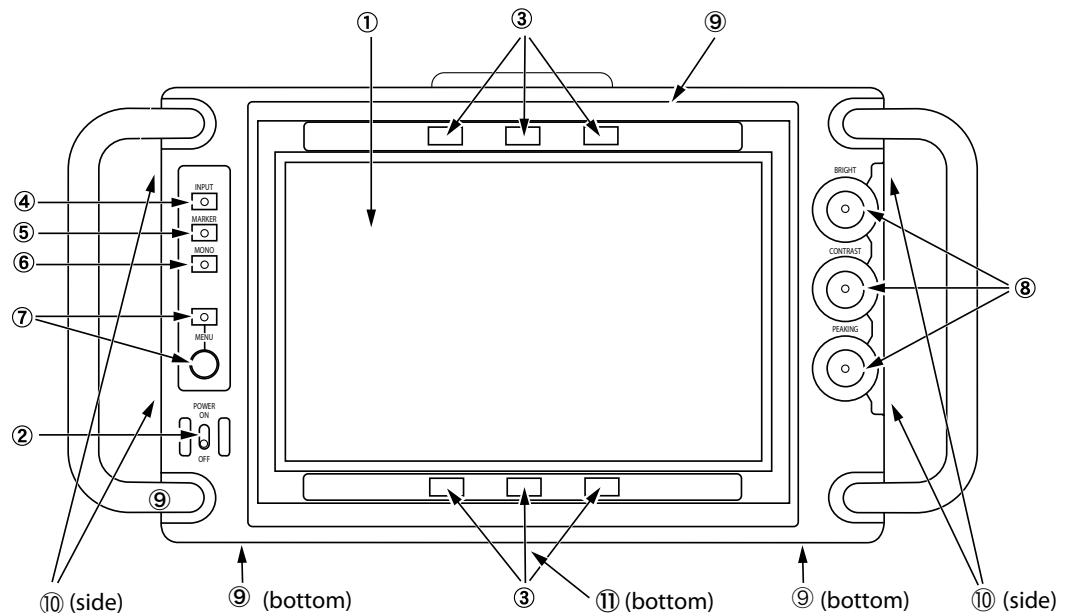
The viewfinder picture can be zoomed in for precise focusing while the full picture overview is shown in a small overlay area.

Color adjustment

Without influencing the main video signal the viewfinder's color temperature can be adjusted to suit the operator's personal preference.

Locations of indicators and controls

Front panel view



① Display Area

Active viewfinder display area. Displays live video, indicators and text overlay.

② Power Switch

Switches the power on or off.

③ Front Tally Indicator (YELLOW / RED / GREEN)

Lights up to red, green or yellow when the tally signal is input. The brightness can be adjusted by the **MENU** setting.

	YELLOW	RED	GREEN
UPPER TALLY	☐	☐	☐
LOWER TALLY	☐	☐	☐
	YELLOW	RED	GREEN

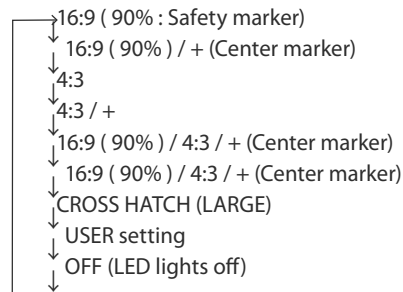
④ Input Select Switch

Selects an input signal by pressing in sequence.

Indication on the screen	Input signal (input connector)
[CAMERA]	CAMERA IN input
[SDI]	SDI IN input
[HDMI]	HDMI IN input

⑤ Marker Select Switch

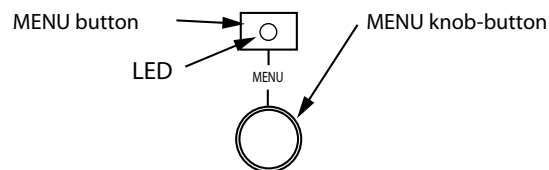
Selects the Marker in sequence.



⑥ Mono/Color Switch

Selects the image, monochrome (LED on) or color.

⑦ Menu Button / Menu Knob-Button



MENU button: Pressing the MENU button displays the VF MENU on the screen. Then the LED lights on. The cursor returns to the previous list by pressing this button while the LED lights on.

MENU knob-button: Rotating the MENU knob-button selects the menu, sub-menu and setting. Pressing this button confirms the selected item and moves the cursor to the following list.

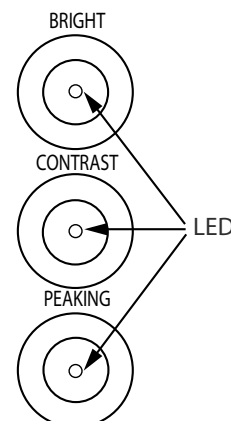
For more information, see [Menu Operation](#), on page 15

⑧ Rotary Control

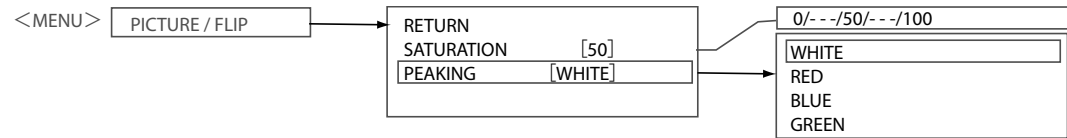
Brightness: Controls the brightness level of the display.

Contrast: Controls the contrast level of the display.

Peaking: Controls the level of peaking that is applied to the viewfinder signal.



The indication color of the peaking can be selected from WHITE/RED/GREEN/BLUE in the **MENU**.



⑨ Hood Fixing Part and Screw Holes (bottom)

For the Hood (supplied) fixing.

⑩ Bracket Fixing Screw Holes (left and right sides) 2x 2x M4

For the Bracket fixing.

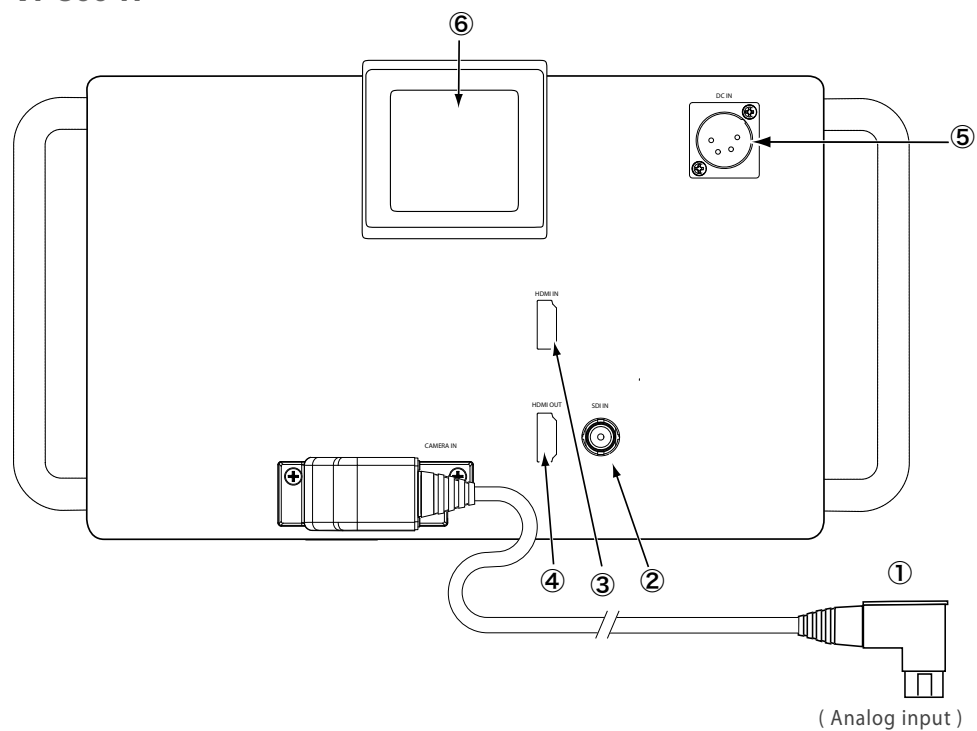
Attach the VF to the side mounting boards of the bracket with the torx screws (4x 4mm-10).

Torx screws and Driver are supplied with the bracket.

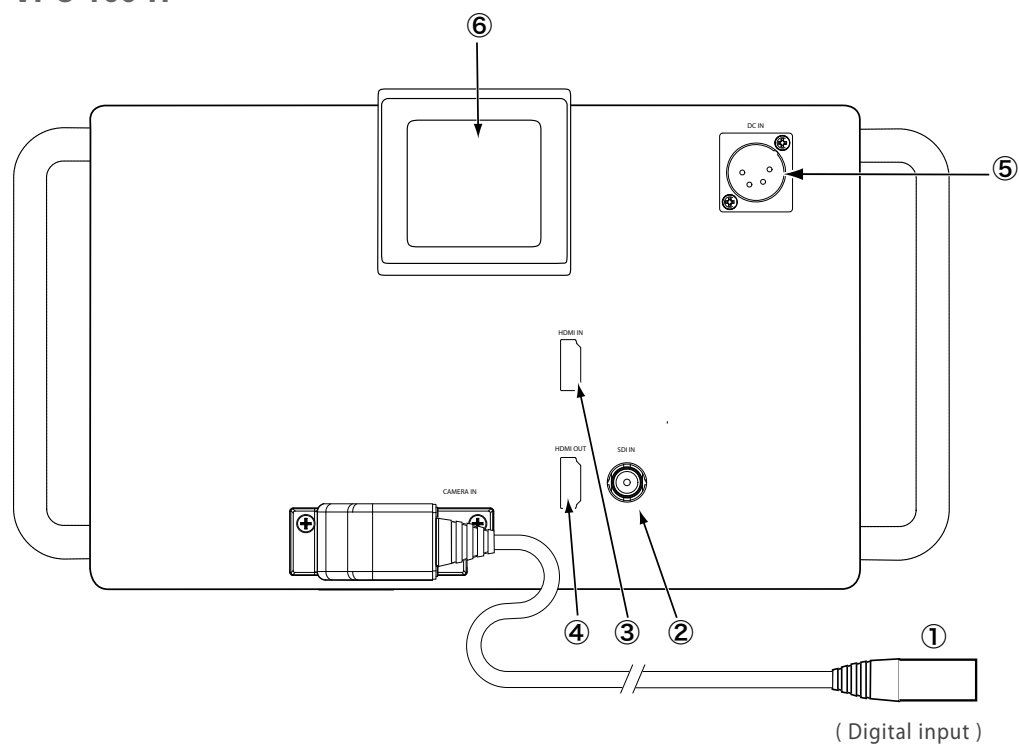
⑪ Tripod Screw Holes (bottom) 1/4-20

Rear panel view

VF 800-H



VF 8-100-H



① CAMERA IN connector

Inputs the signal from a camera.

VF 800-H: Analog Input connector

VF 8-100-H: Digital Input connector

② SDI IN connector (BNC)

Inputs the SDI signal.

③ HDMI IN connector (HDMI)

Inputs the HDMI signal.

④ HDMI OUT connector (HDMI)

Outputs the HDMI signal (Loop through from HDMI IN).

⑤ DC IN connector (XLR 4P)

Connect to the DC power supply. DC 10 V to 16 V.

⑥ Top Tally Indicator (RED)

Lights up when the tally signal is input. The brightness can be adjusted by the **MENU** setting.



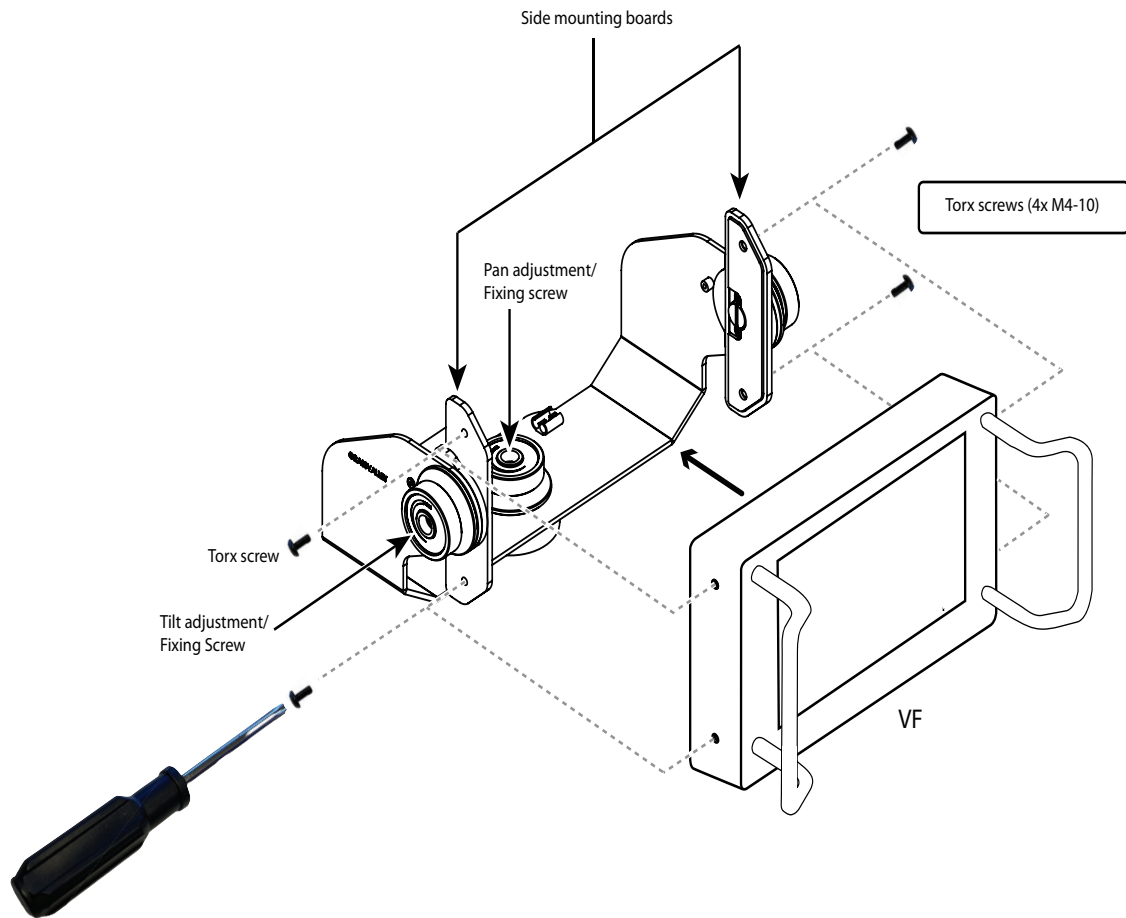
Note

Only Red Tally is supported on the Top Tally.

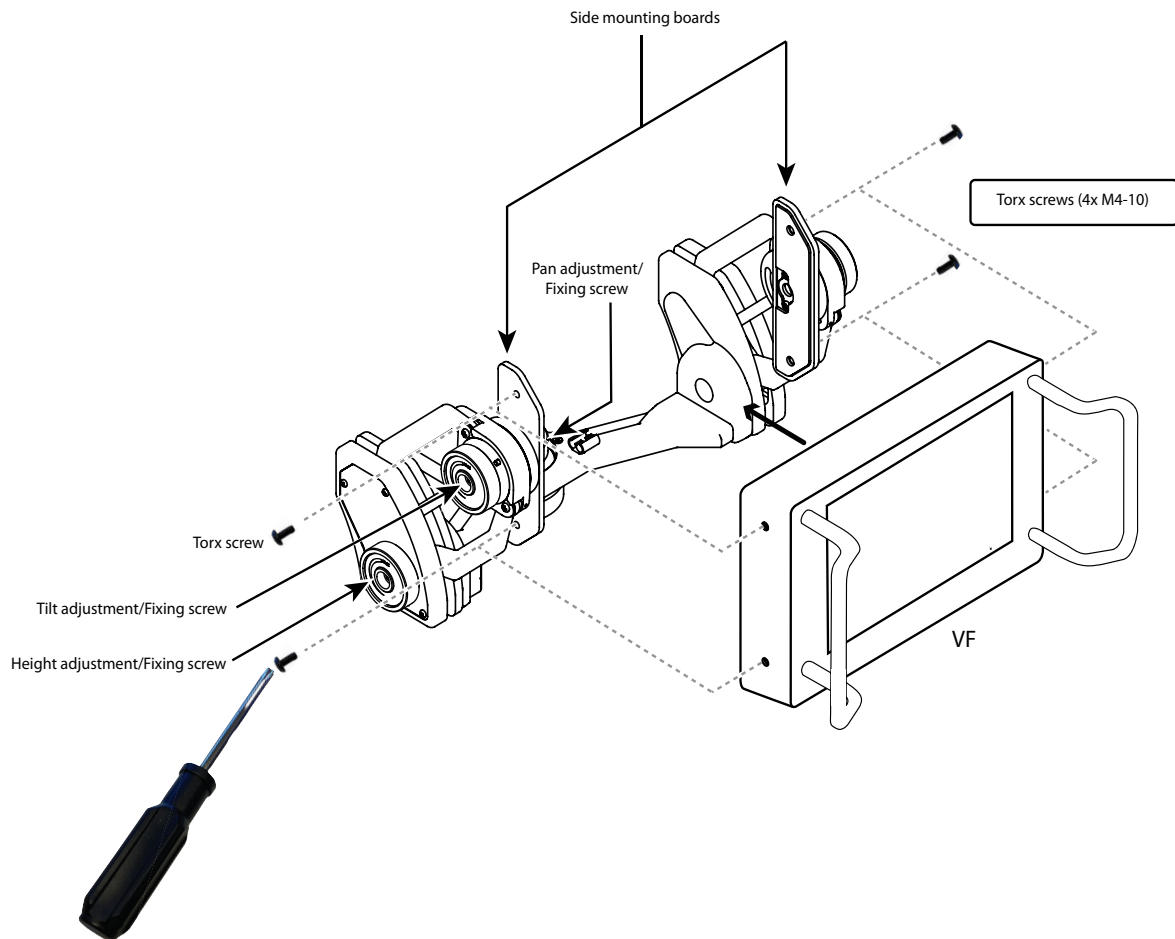
2

Installation

Robust Bracket



Articulated Bracket



Mounting The Viewfinder

To mount the viewfinder on top of the robust bracket or articulated bracket, proceed as follows:

- 1 Switch off the camera.
- 2 Adjust and tighten the horizontal and vertical fixing screws on the bracket.
- 3 Mount the viewfinder to the side mounting boards of the bracket using four torx screws (4x M4-10).
- 4 Connect the viewfinder cable to the viewfinder connector on the camera head. Guide the cable along the top of the camera body.

To release the viewfinder, proceed as follows:

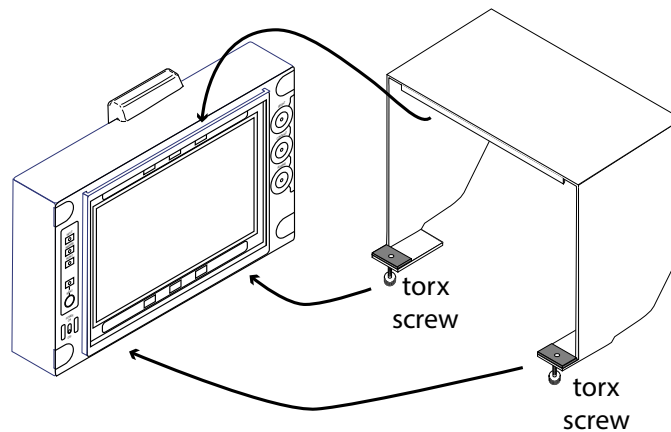
- 1 Switch off the camera.
- 2 Disconnect the viewfinder cable from socket on the camera head.
- 3 Remove the four torx screws from the viewfinder, then carefully detach the viewfinder from the bracket.

Attaching Accessories

Hood

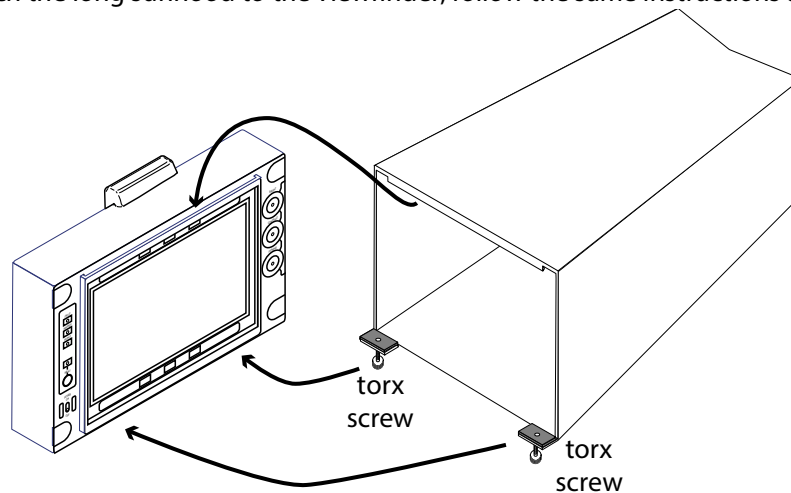
To attach the hood to the viewfinder proceed as follows:

- 1 Make sure that the viewfinder is mounted and that its position is fixed.
- 2 Hook the convex part on the top of the rear of the hood into the groove on the upper part of the screen.
- 3 Align the left and right positions and fix it to the screw holes on the bottom with the screws (M4x10).



Long Sunhood (Optional)

To attach the long sunhood to the viewfinder, follow the same instructions as for the hood.



Caution

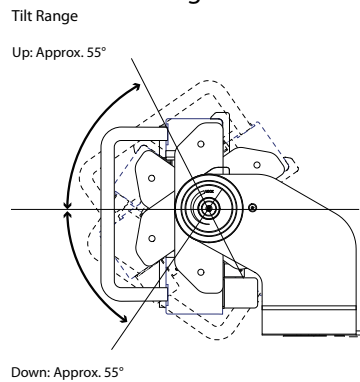
Do not hold the hood or long sunhood to carry the viewfinder as it may damage the viewfinder or hood/long sunhood.

Adjusting The Position

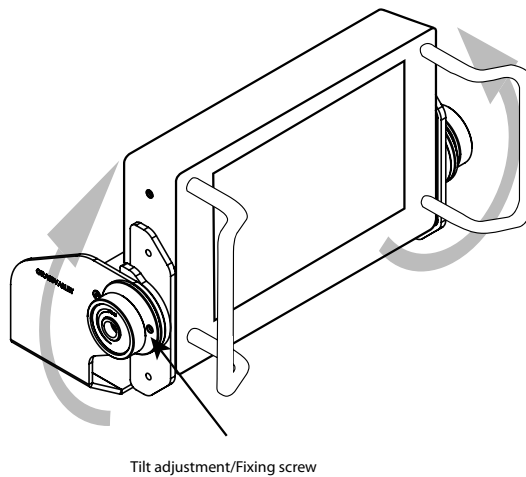
Tilting

Robust Bracket

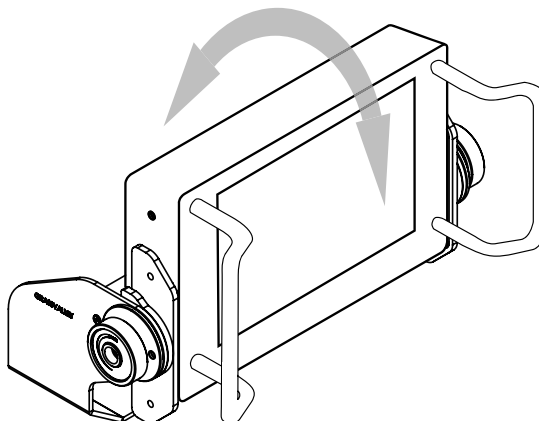
The viewfinder can be tilted over a vertical angle of 55° down and 55° up:



- 1 Loosen both rotary knobs with two hands in a contrary direction.



- 2 Tilt the viewfinder to the desired angle and fasten the rotary knobs.



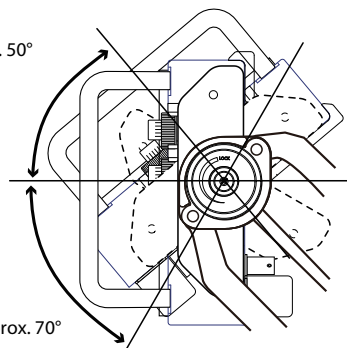
Articulated Bracket

The viewfinder can be tilted over a vertical angle of 57° down and 60° up:

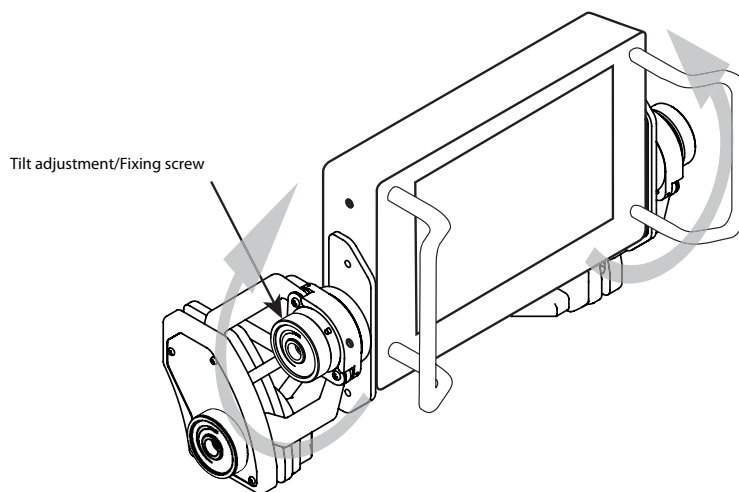
Tilt Range

Up: Approx. 50°

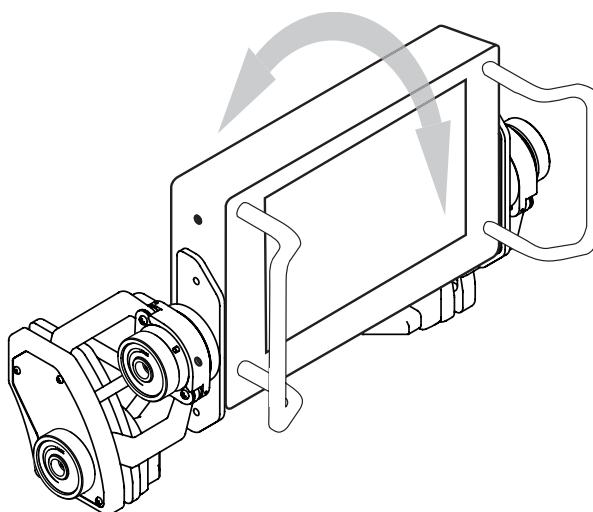
Down: Approx. 70°



- 1 Loosen both rotary knobs with two hands in a contrary direction.



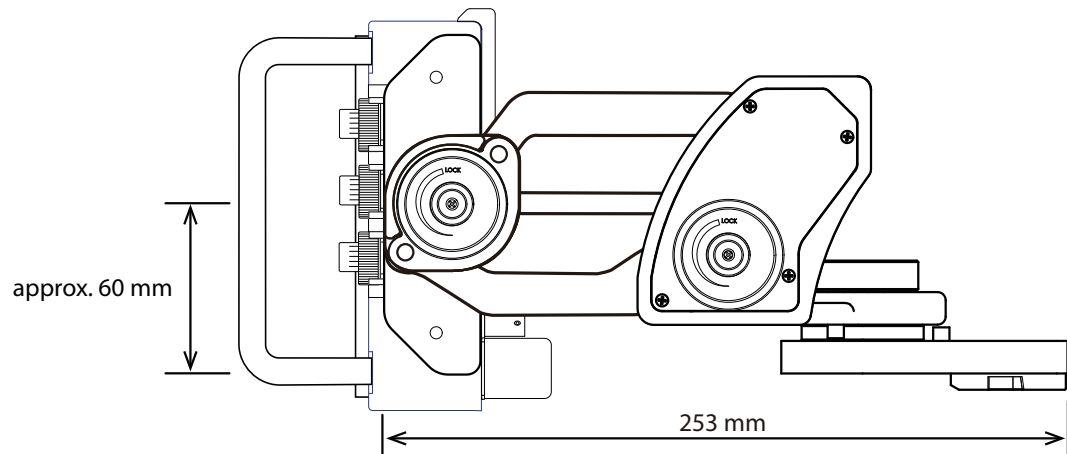
- 2 Tilt the viewfinder to the desired angle and fasten the rotary knobs.



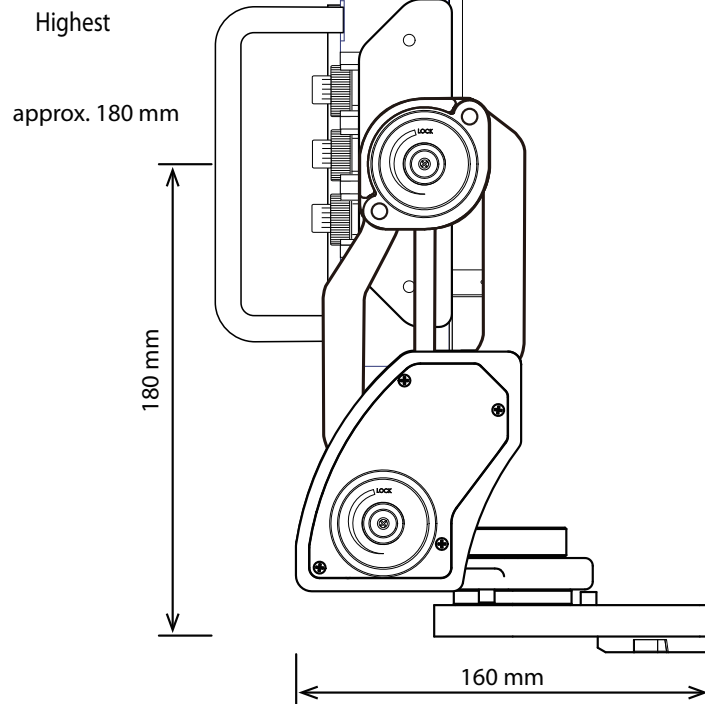
Height Adjustment

The viewfinder can be adjusted to a height range of approximately 60mm at its lowest point on the horizontal arm and approximately 180mm at its highest point on the vertical arm.

Horizontal Arm



Vertical Arm

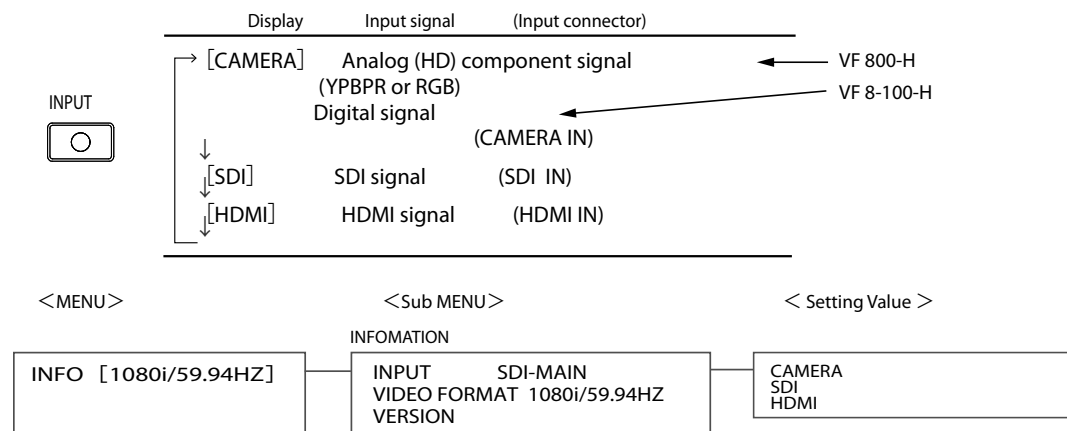


3 Operation

Input Signal

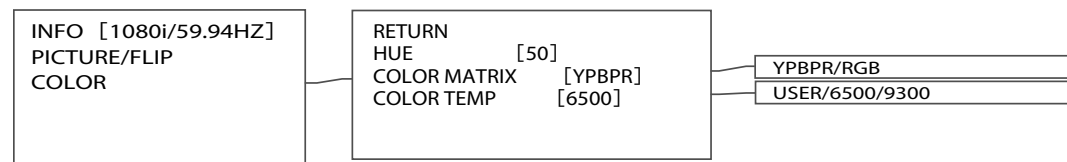
To select an input signal connected to the input connector, press the **INPUT** select button sequentially. The selected signal and video format will be displayed on the screen.

If no video signal is input, **NO SYNC** will be displayed on the screen.



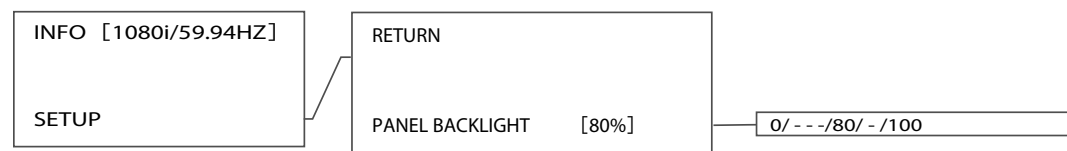
Setting of the Color Matrix

When inputting the camera signal from CAMERA IN connector, set the COLOR MATRIX to YPBPR or RGB in the **MENU > COLOR**.



Panel Backlight

The panel backlight brightness is adjustable. To adjust the panel backlight, navigate to **MENU > SETUP > PANEL BACKLIGHT**.



Rotary Control

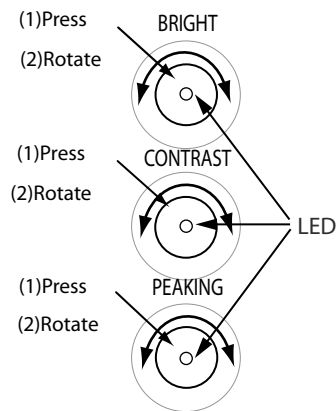
Rotary control allows you to adjust the viewfinder to your personal preference.

Press the rotary control to select the **USER** preset memory. Once selected, the indicator LED lights on. Turn the rotary control clockwise or counterclockwise to adjust the setting. The setting can be adjusted within a range from 0 to 100.

If the LED does not light up, it indicates that the setting is at its default values:

- BRIGHTNESS = 50
- CONTRAST = 50
- PEAKING = 0

- (1) Pressing the rotary control selects the USER preset memory and then lights on the LED.
- (2) Turning the rotary control clockwise or counterclockwise adjusts the selected value of BRIGHT/CONTRAST/PEAKING.



Brightness Control

Controls the brightness level of the viewfinder display. Turn the rotary control clockwise to increase brightness. The adjustment range is from 0 to 99 and its default value is 50.

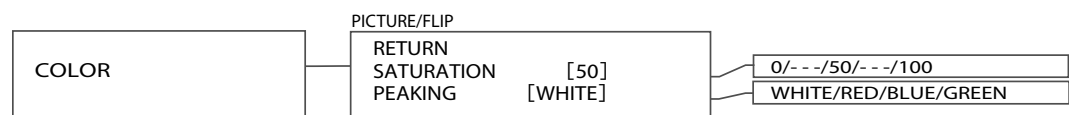
Contrast Control

Controls the contrast level of the viewfinder display. Turn the rotary control clockwise to increase contrast. The adjustment range is from 0 to 99 and its default value is 50.

Peaking Control

Controls the level of peaking that is applied to the viewfinder signal. Peaking makes the edges of the image look sharper. Turn the rotary control clockwise to increase peaking. The adjustment range is from 0 to 99 and its default value is 0.

Peaking Color



To adjust the peaking color of the viewfinder, navigate to **MENU > PICTURE > PEAKING**, and choose from white, red, blue or green.

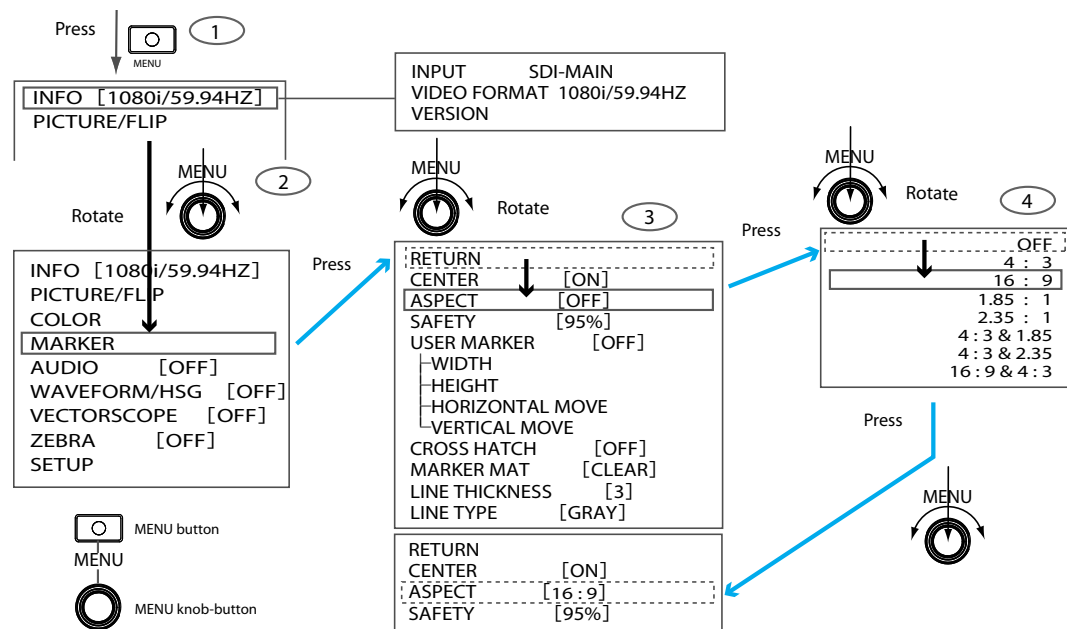
Saturation Setting

To set the saturation level of the viewfinder, navigate to **MENU > PICTURE > SATURATION**.
The adjustment range is from 0 to 100 and its default value is **50**.

Menu Operation

User Setting

To access the user settings, press the **MENU** button. Then, rotate and press the **MENU** knob-button to set the functions according to your preferences.



Menu Display

Press the **MENU** button to display the menu list on the screen.

Menu Selection

Rotate the **MENU** knob-button to move the cursor to the desired item, and the sub-menu list will be displayed.

Press the knob-button to select the item, and the cursor will move to the sub-menu list.

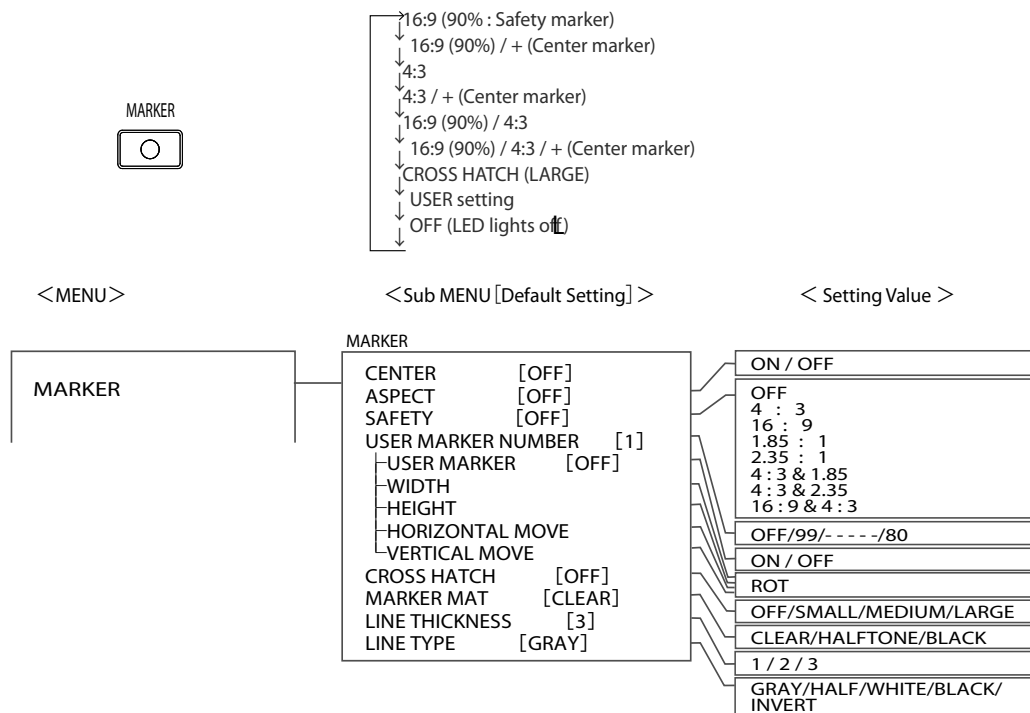
Setting

Rotate the **MENU** knob-button to move the cursor to the desired setting, and press the knob-button to select the setting.

The cursor will return to the sub-menu list, and the selected setting and value will be displayed within brackets next to the setting item.

Marker

Press the **MENU** button to select the **MARKER** in sequence. Set the **USER** setting in the **MENU**.

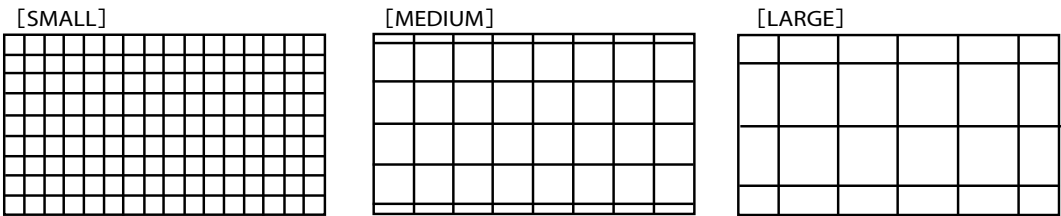


Setting of The Marker

To set the **USER** marker, navigate to **MENU > MARKER**, and choose the **USER** option. This marker will be displayed on the screen.

Button	Description
SAFETY	Safety Marker
USER MARKER NUMBER	User Marker Number
USER MARKER	User Marker (Free)
WIDTH	Width
HEIGHT	Height
HORIZONTAL MOVE	Horizontal Position
VERTICAL MOVE	Vertical Position
CROSS HATCH	Cross Hatch
MARKER MAT	Marker Mat (Back)
LINE THICKNESS	Line Thickness
LINE TYPE	Line Color

Cross Hatch



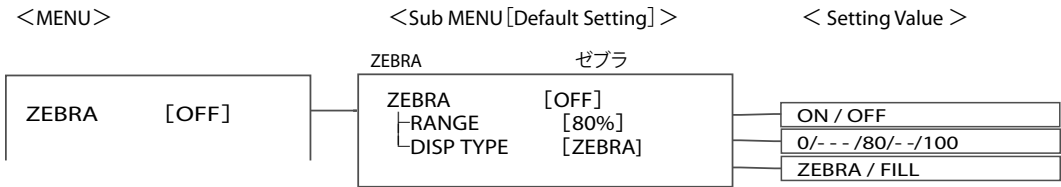
Mono/Color

The **MONO** button enables the selection between monochrome and color display modes.



Zebra

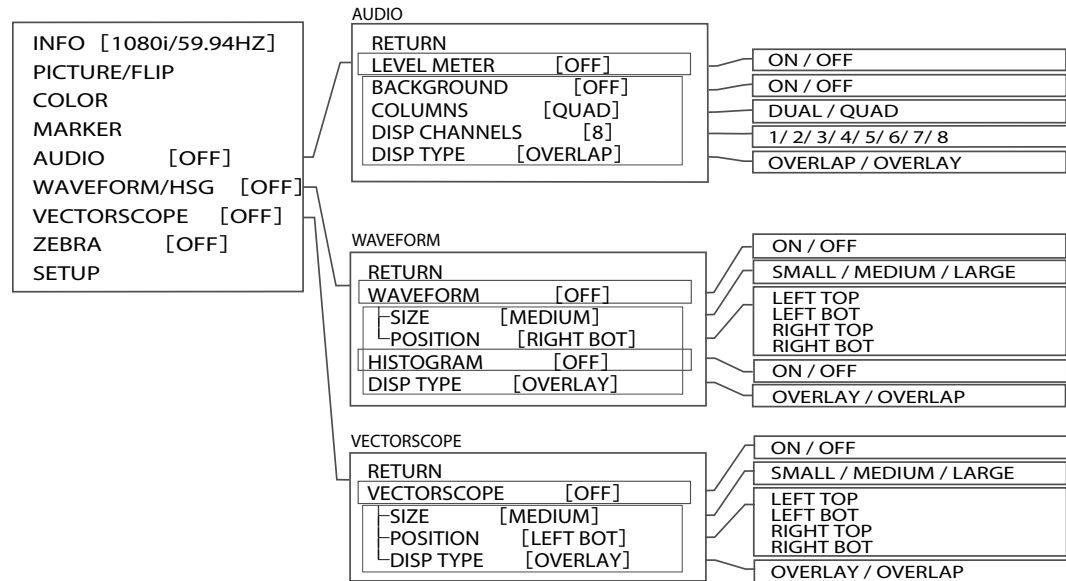
To set the Zebra ON or OFF, navigate to **MENU**. Then, adjust the level indication and select ZEBRA/FILL options as needed within the settings menu.



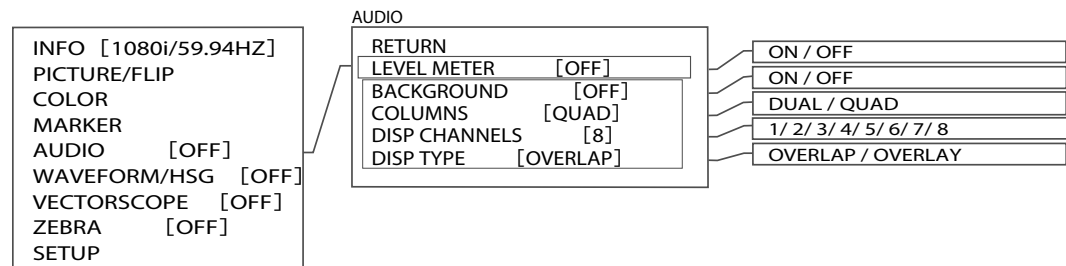
Utility Settings

To access the Utility settings, navigate to the **MENU**.

<MENU>

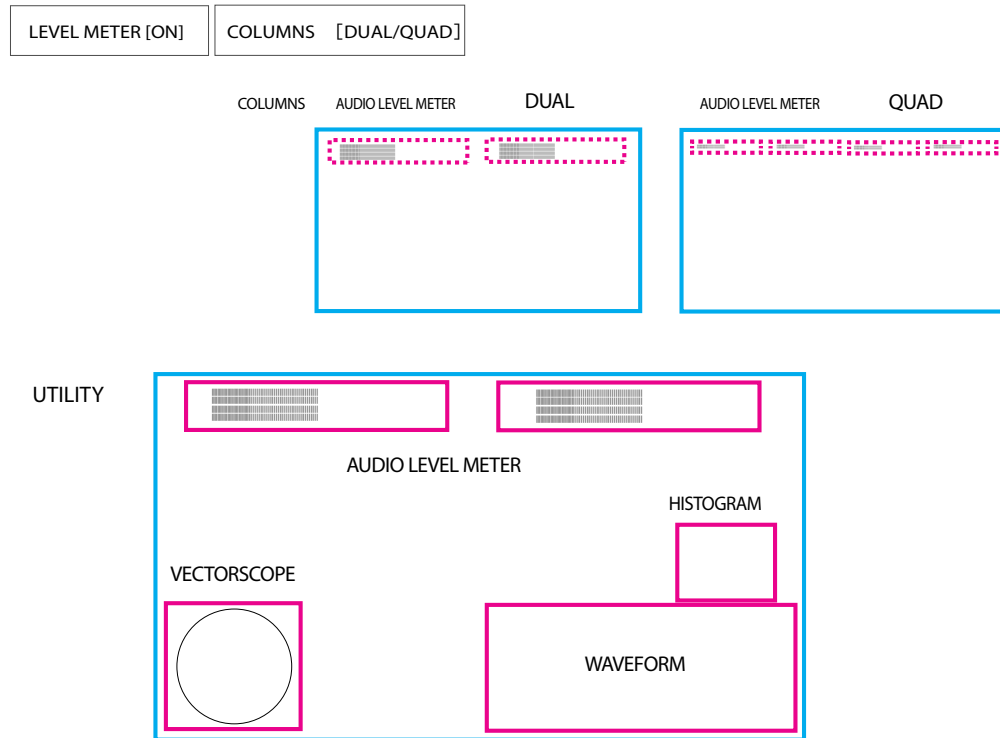


Audio

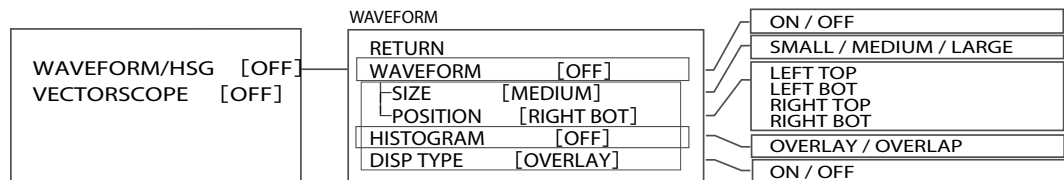


Note

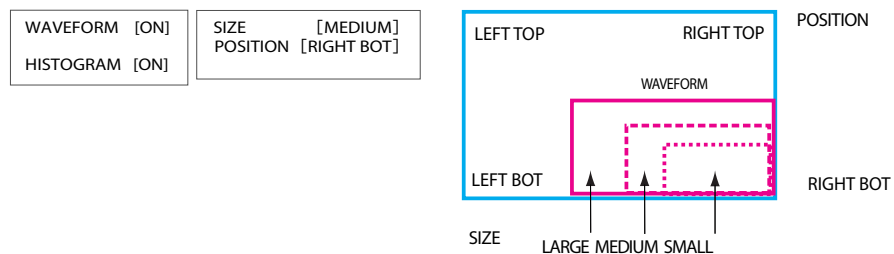
Audio Level meter only available in SDI or HDMI input mode.



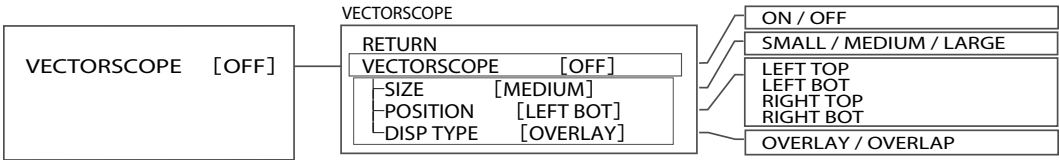
Waveform/Histogram



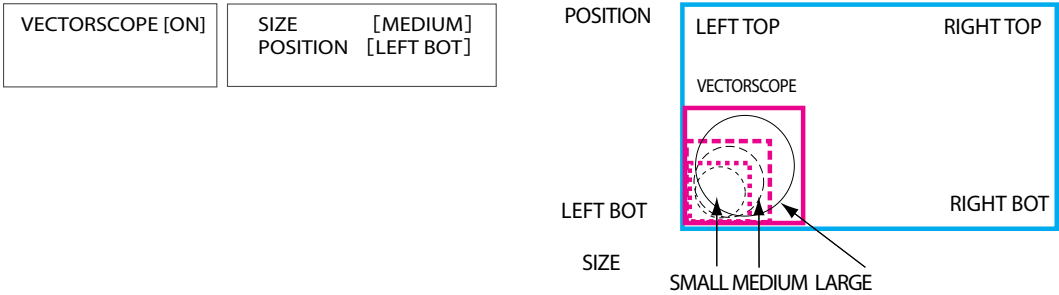
Button	Description
WAVEFORM	Waveform Display [ON/OFF]
SIZE	Size [Small/Medium/Large]
POSITION	Position [/ / /Right Bot]
DISP TYPE	Display Type [Overlay/Overlap]
HISTOGRAM	Histogram Display [ON/OFF]



Vectorscope



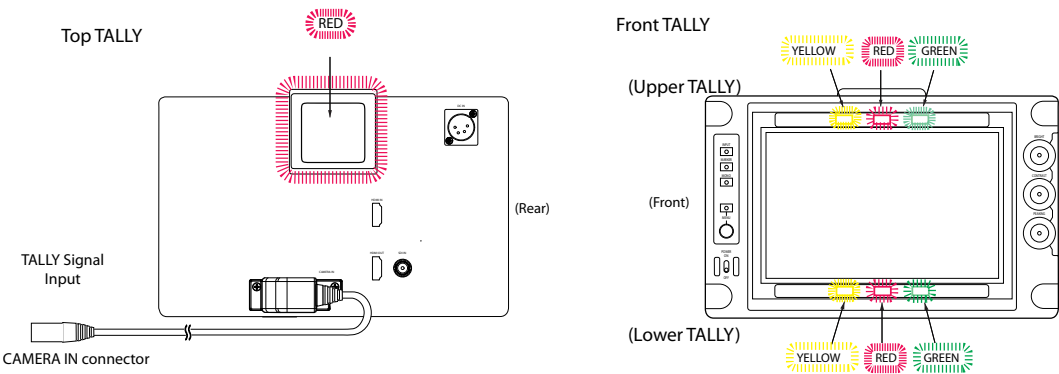
Button	Description
VECTORSCOPE	Vectorscope Display [ON/OFF]
SIZE	Size [Small/Medium/Large]
POSITION	Position [/ / Right Bot]
DISP TYPE	Display Type [Overlay/Overlap]

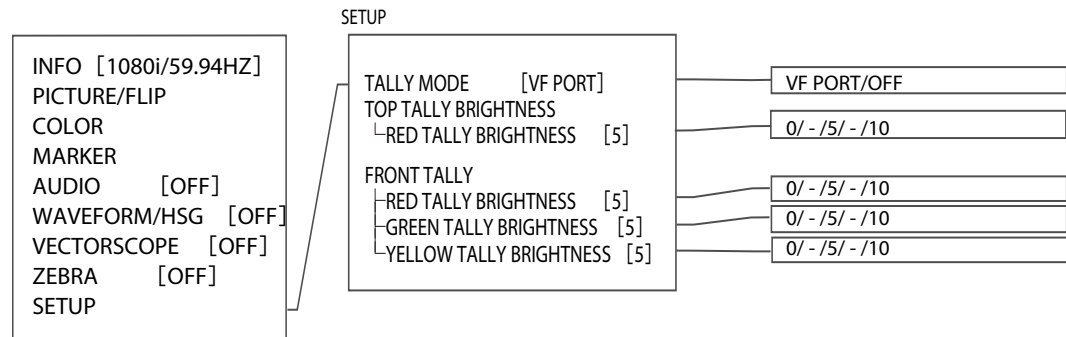


Tally

Setting

To set the Tally setting, navigate to the **MENU**.





Mode

Set the Tally Mode in the **MENU > SETUP > TALLY MODE**.

OFF: Prevented from lighting.

VF PORT: (TALLY on) When the Tally signal with the Camera signal is input to the **CAMERA IN** connector.

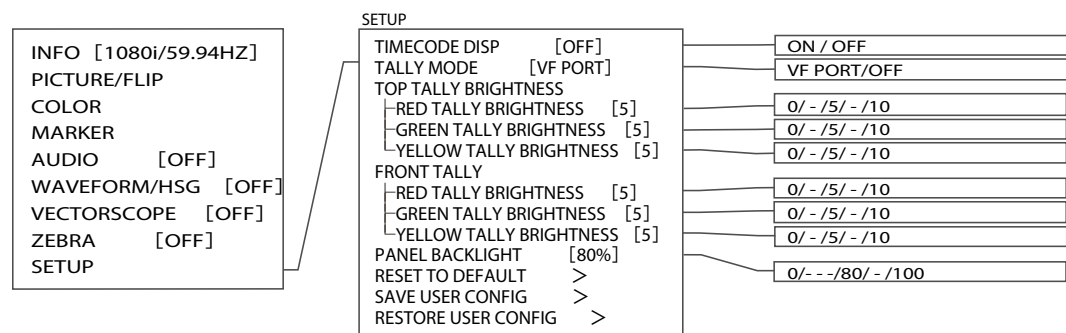
Top Tally Brightness

The Top Tally Brightness can be adjusted in the **MENU > SETUP > TOP TALLY BRIGHTNESS**.

Front Tally Brightness

The Front Tally Brightness can be adjusted in the **MENU > SETUP > FRONT TALLY BRIGHTNESS**.

Setup



Panel Backlight

The panel backlight is adjustable. To adjust the panel backlight of the viewfinder, navigate to **SETUP > PANEL BACKLIGHT**. The adjustment range is from 0% to 100% and its default value is 80%.

Save and Restore User Settings

User settings can be saved and restored without resetting. To save user settings, navigate to **SETUP > SAVE USER CONFIG**. To restore user settings, navigate to **SETUP > RESTORE USER CONFIG**.

Reset

The user settings can be reset to the manufacturing default settings on the menu. To reset the user setting, navigate to **SETUP > RESET TO DEFAULT**.

Cleaning the viewfinder



Caution

Always turn off the viewfinder before cleaning the screen.



Caution

Never use cleaning solvents such as glass cleaner or soap to clean the screen.

Use a slightly damp soft cloth to clean the screen and then immediately a soft dry cloth (preferably micro fiber tissue - no paper products) to dry the screen. Wipe gently and do not apply strong pressure as this may damage the screen.

A Specifications

General

Dimensions (W x H x D)	approx. 232 x 150 x 52 mm (9.1 x 5.9 x 2.0 in) (excluding protrusions)	
	Hood	approx. 180 x 150 x 100 mm
	Long Sunhood	approx. 180 x 150 x 260 mm
	Robust Bracket	approx. 298 x 180 x 176 mm
	Articulated Bracket	approx. 340 x 210(126 - 244) x 160(160 - 253) mm
Weight (approx.)	1.1 kg (2.4 lbs) without accessories	
	Hood	approx. 0.3 kg
	Long Sunhood	approx. 0.6 kg
	Robust Bracket	approx. 0.9 kg
	Articulated Bracket	approx. 1.9 kg
Operating temperatures	-20°C to +45°C (-4°F to +113°F)	
Operating humidity	30% to 85% (no condensation)	
Storage temperatures	-25°C to +70°C (-13°F to 158°F)	
Storage humidity	0% to 90%	
Power supply	+10 to 16 VDC	
Power consumption (typ.)	approx. 16 W	
Input signals	1080/59.94p 1080/50p 1080/29.97p 1080/25p 1080/24p 1080/23.98p 1080/59.94i 1080/50i 720/59.94p 720/50p Note: Some input signals may not be supported.	
Controls	Menu button Three large rotary controls for Brightness, Contrast and Peaking.	
Indicators	ISO (yellow), On-Air (red), Call signal (green), large Tally lights (red)	

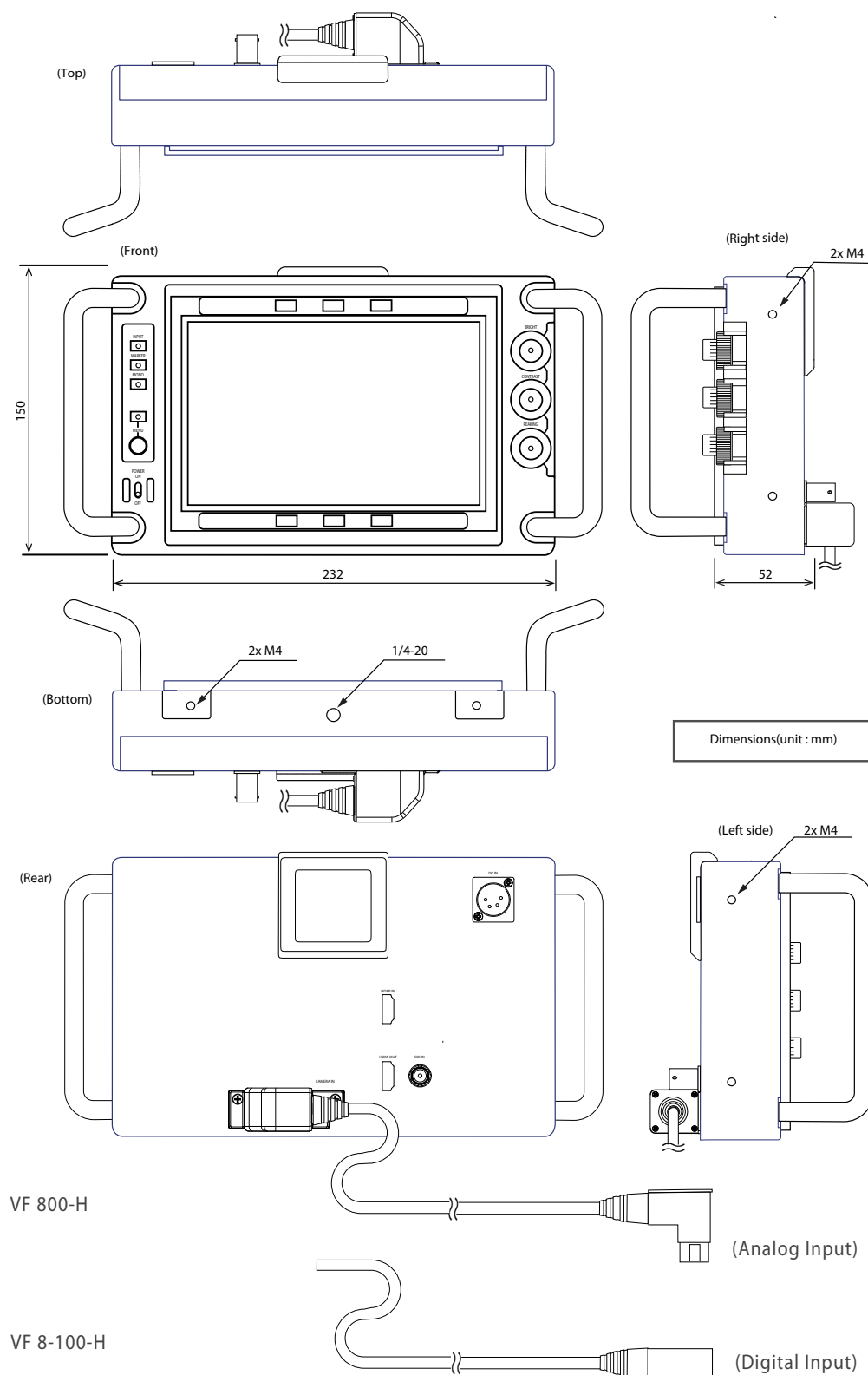
LCD Panel

Panel type	TFT-LCD
Panel size	7 in. diagonal
Size of display area	151(H) x 85(V) mm
Panel aspect ratio	16 : 9
Picture resolution	1920(H) x 1080(V)
Viewing angle	170° (H), 170° (V)
Color reproduction	16.7M colors

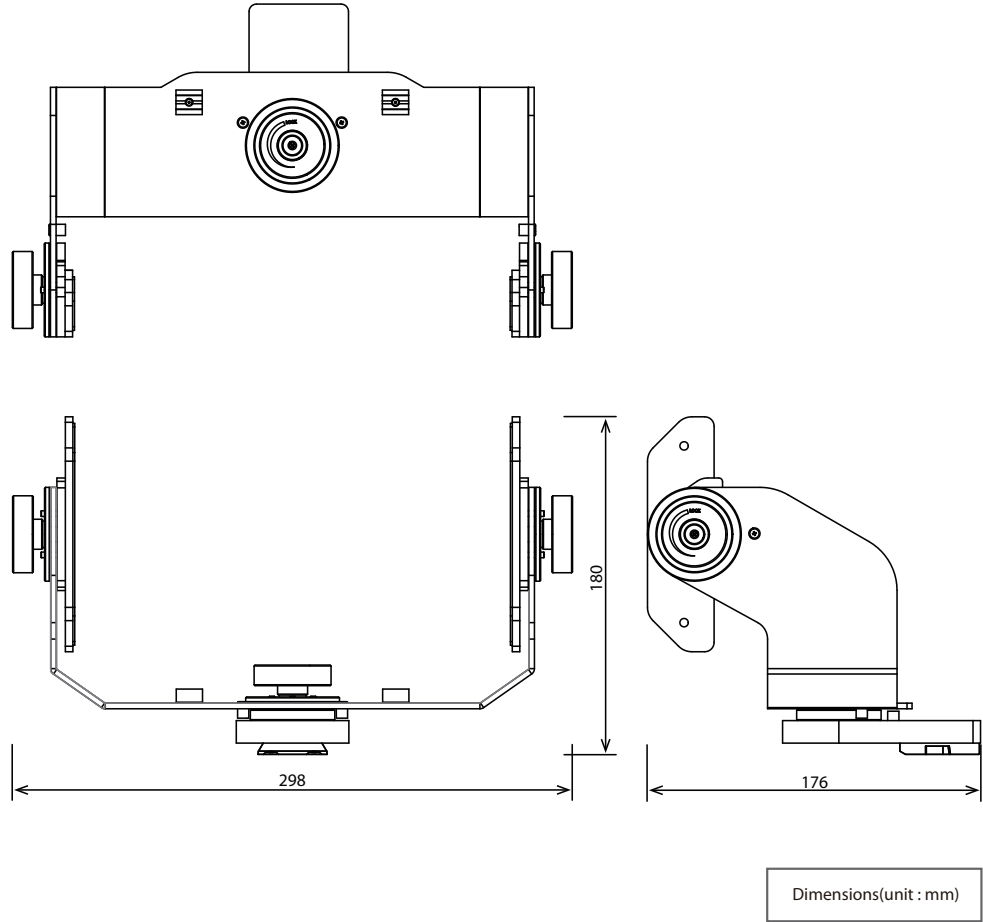
Input/Output

Camera input	For VF 800-H: • CAMERA IN (Analog Connector) x 1 • Analog HD components (Y/Pb/Pr or R/G/B) For VF 8-100-H: • CAMERA IN (Digital Connector) x 1 • Digital 1080P 4:4:4
SDI input	SDI IN (BNC x1)
HDMI input	HDMI IN (HDMI x1)
HDMI output	HDMI OUT (HDMI x1) HDMI IN (Loop through from HDMI Input)

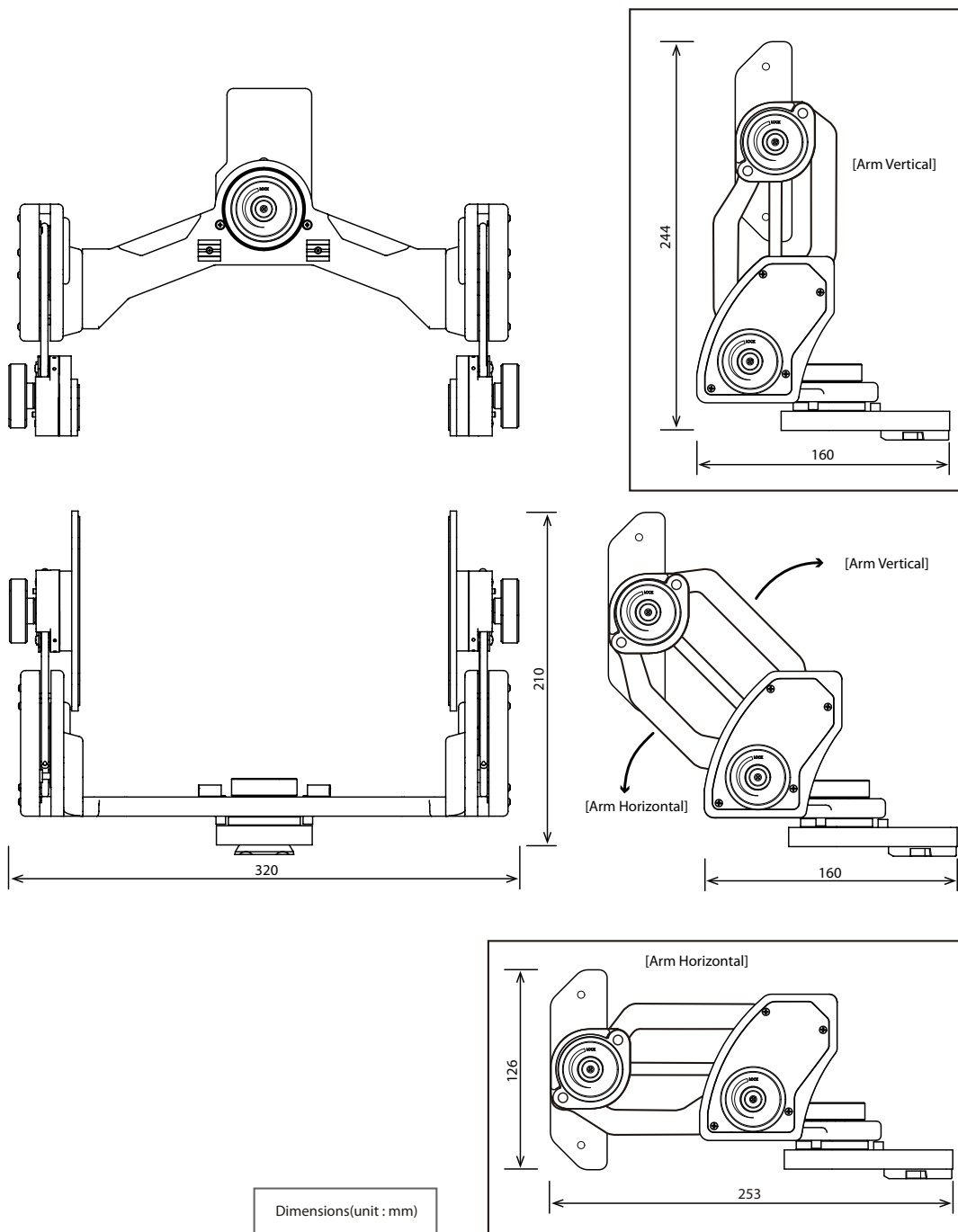
Dimensions



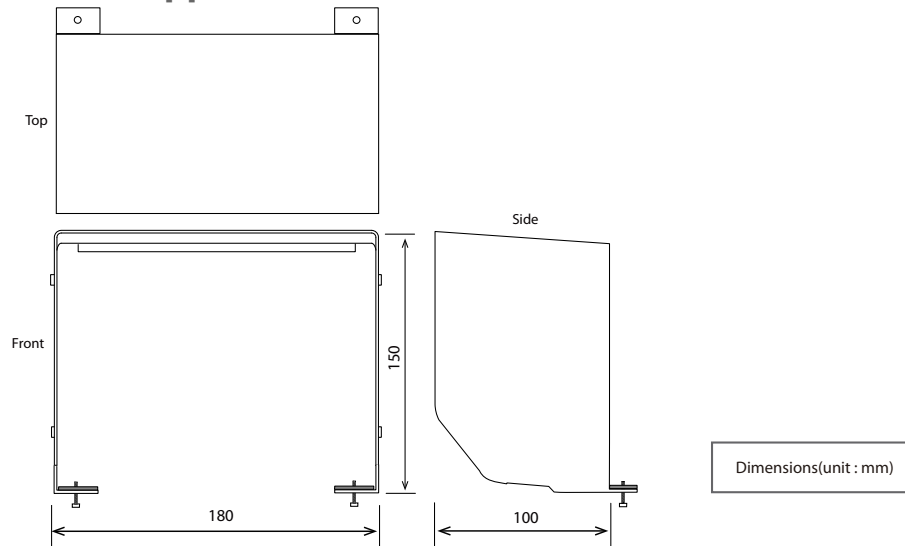
Robust bracket VF 8-Series



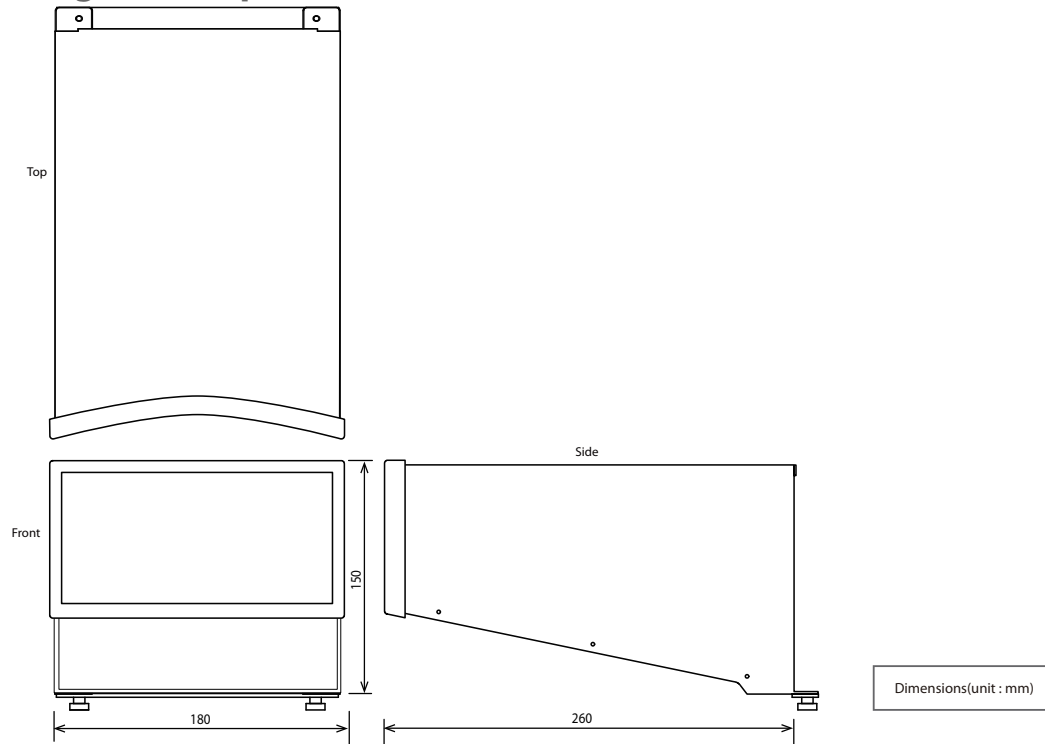
Articulated bracket VF 8-Series



Hood (Supplied)



Long Hood (Optional)



Accessories

- Mounting bracket (supplied)
- Short sunhood (supplied)
- LDK 6992/12 Large closed sunhood for 7-inch viewfinders (optional)



Grass Valley Technical Support

For technical assistance, contact our international support center, at 1-800-547-8949 (US and Canada) or +1 530 478 4148.

To obtain a local phone number for the support center nearest you, please consult the Contact Us section of Grass Valley's website (www.grassvalley.com).

An online form for e-mail contact is also available from the website.

Corporate Head Office

Grass Valley
3499 Douglas-B.-Floreani
St-Laurent, Quebec H4S 2C6
Canada
Telephone: +1 514 333 1772
Fax: +1 514 333 9828
www.grassvalley.com