SONY

ELECTRONIC VIEWFINDER

BVF-55

⚠警告 電気製品は、安全のための注意事項を守らないと、火災や人身事故になることがあります。

このオペレーションマニュアルには、事故を防ぐための重要な注意事項と製品の取り扱いかたを示してあります。**このオペレーションマニュアルをよくお読みのうえ、**製品を安全にお使いください。お読みになったあとは、いつでも見られるところに必ず保管してください。

OPERATION MANUAL Japanese/English/German

1st Edition (Revised 4)

English

For the customers in U.S.A.

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 or her own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.

For the customers in Europe

This product with the CE marking complies with the EMC Directive(89/336/EEC) issued by the Commission of the European Community.
Compliance with this directive implies conformity to the following European standards:

- EN55103-1: Electromagnetic Interference(Emission)
- EN55103-2: Electromagnetic Susceptibility(Immunity)

This product is intended for use in the following Electromagnetic Environment(s):
E1 (residential), E2 (commercial and light industrial), E3 (urban outdoors) and E4 (controlled EMC environment, ex. TV studio)

Pour les clients européens

Ce produit portant la marque CE est conforme à la Directive sur la compatibilité électromagnétique (EMC) (89/336/CEE) émises par la Commission de la Communauté européenne.
La conformité à cette directive implique la conformité aux normes européennes suivantes:

- EN55103-1: Interférences électromagnétiques (émission)
- EN55103-2: Sensibilité électromagnétique (immunité)

Ce produit est prévu pour être utilisé dans les environnements électromagnétiques suivants:
E1 (résidentiel), E2 (commercial et industrie légère), E3 (urbain extérieur) et E4 (environnement EMC contrôlé ex. studio de télévision).

Table of Contents

English

Overview

The BVF-55 electronic viewfinder is a 5-inch monochrome electronic viewfinder designed for attachment to a video camera with the camera adapter.
The main features are as shown below.

Main features

Low power consumption
Wide voltage range of 10.5 to 17 V.
Low power consumption (approx. 11 W).

High resolution
High-resolution picture tube, with horizontal resolution of over 650 lines.

Phase-corrected peaking circuit (for both side edges)
Adoption of the peaking circuit ensures sharp pictures and thus make forcussing easier.

Large up-tally lamp
The up-tally lamp is large and easier to see by switching from white to red.
The up-tally lamp with the supplied number plate attached can be used for the multi-camera operations.
You can adjust the lamp brightness.

Two tally system
Each lamp lights corresponding to whether a red tally or green tally signal is input.

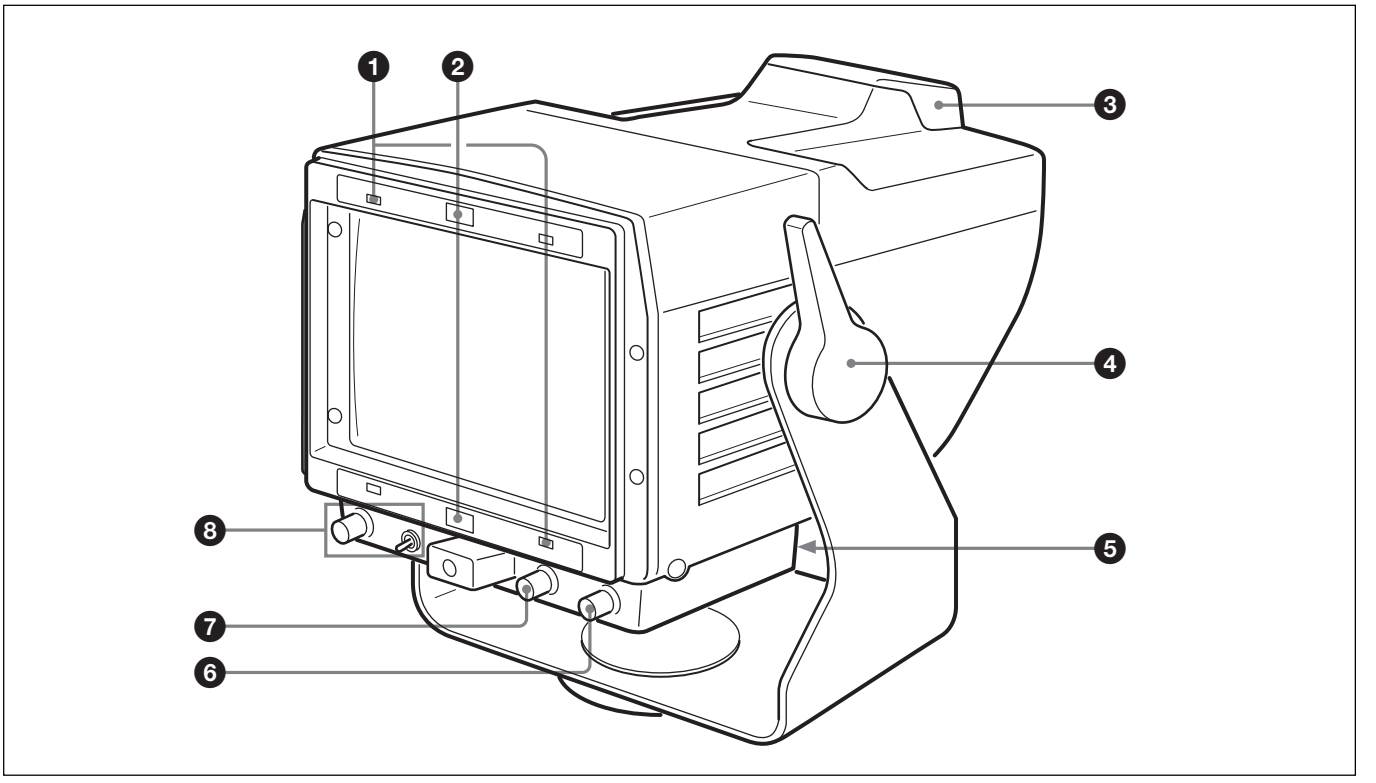
Superior operation
Panning up to 90 degrees left and right is possible.
Tilting 40 degrees up and down is also possible.
Because the BVF-55 is light (approx. 1.9 kg) and features a strong aluminum diecast and water-resist body, it has no movement of the weight center and offers superior operations.

Supplied studio monitor hood and VFH-550 optional OB hood
The supplied studio monitor hood is strong and easy to use.
The VFH-550 offers superior shading character.

Wide-screen function
The aspect ratio of 16:9 is available with a control signal from the camera.

Peaking OFF control
A control signal from the camera will turn off the peaking control.

Functions of parts and controls



❶ G TALLY lamp (green)
Lights when the green tally signal is input.

❷ R TALLY lamp (red)
Lights when the red tally signal is input.

❸ Up-tally lamp (red)
Set UP TALLY switch to ON. The lamp lights in the same way as the R tally lamp.
The supplied number plate can be attached to this.

❹ Tilt lock lever
Fixes any tilting position.

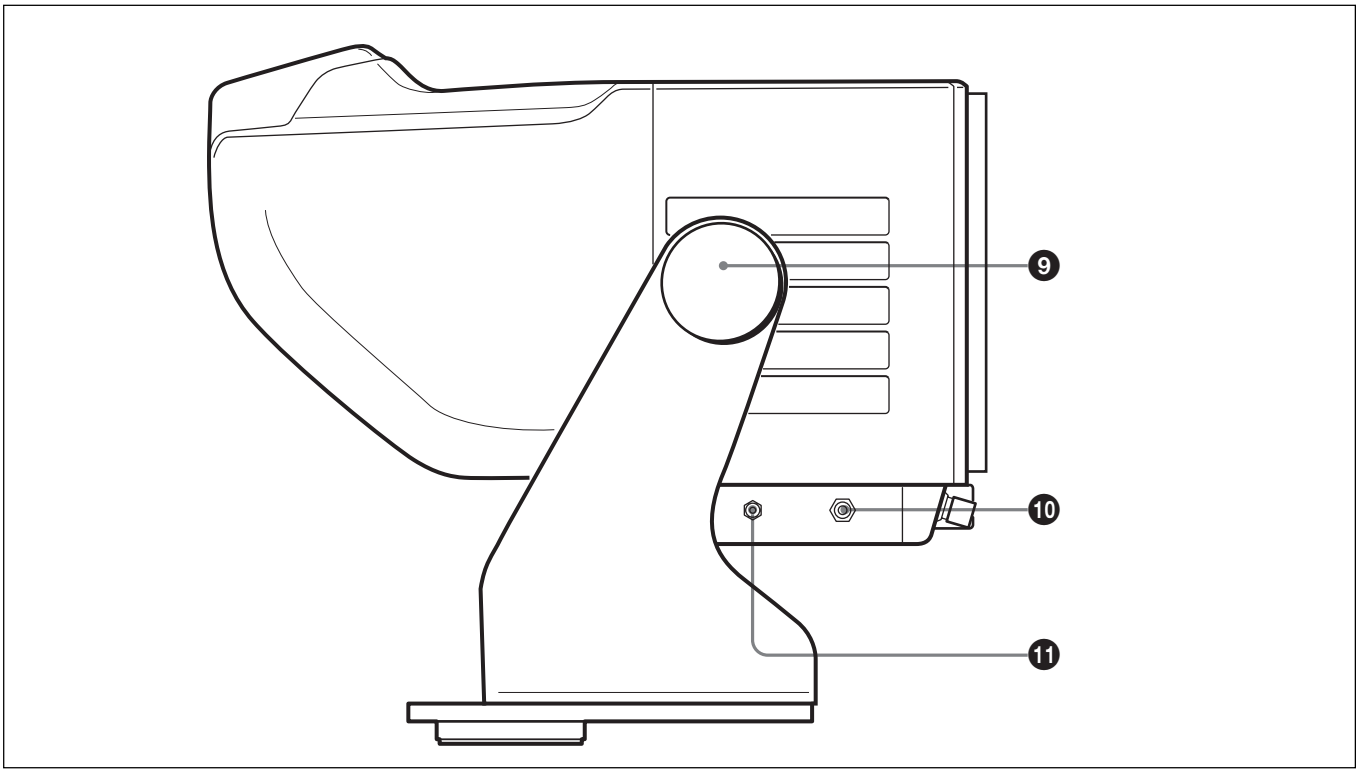
❺ 12-pin connector
Connects to a video camera's VF connector, using the supplied connecting cable.
Power and video/tally signals are supplied through this connector.

❻ CONTRAST knob[1)]
Adjusts the contrast of the viewfinder picture.

❼ BRIGHT knob[1)]
Adjusts the brightness of the viewfinder picture.

❽ PEAKING switch and knob[1)]
Setting this switch to ON and turning the knob corrects viewfinder image.
Used to adjust the focus on the video camera.
Depending on the camera to be used with the BVF-55, the peaking control can be turned off by a control signal sent from the camera even if the PEAKING switch is set to ON.

1) These controls do not affect the output signal of the video camera.



❾ Tilt knob
Adjusts the tilt friction.

❿ UP TALLY switch
When this switch is set to ON, the UP TALLY lamp lights in the same way as the R tally lamp.

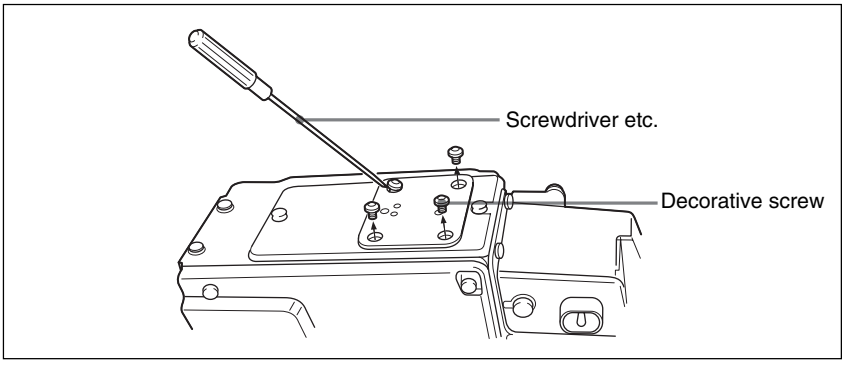
⓫ UP TALLY DIMMER control
Adjusts the brightness of the UP TALLY lamp.

Attaching accessories

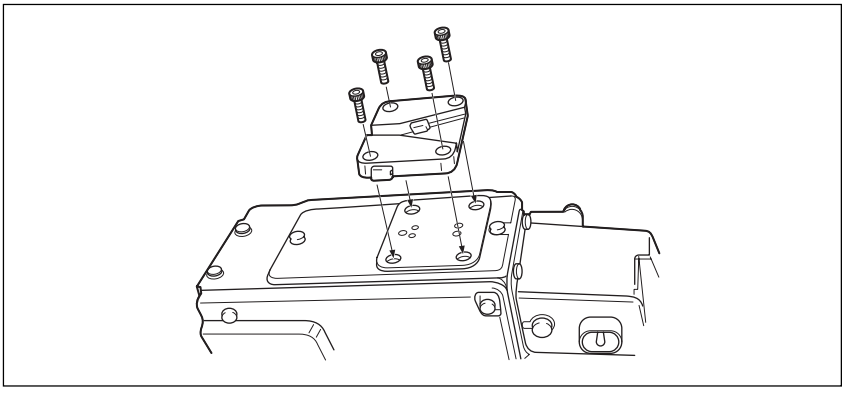
Attaching the BVF-55

Attaching to the camera adaptor

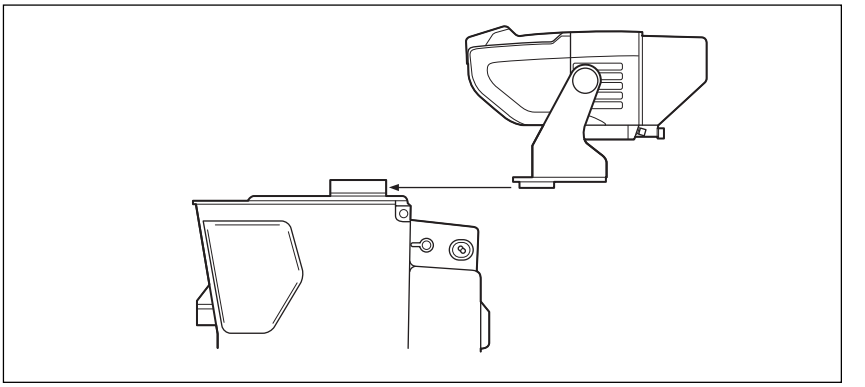
1 Remove the four decorative screws from the camera adaptor.



2 Attach the supplied V-wedge shoe attachment to the camera adaptor using the supplied hexagonal wrench and four hexagonal screws (4 × 12).

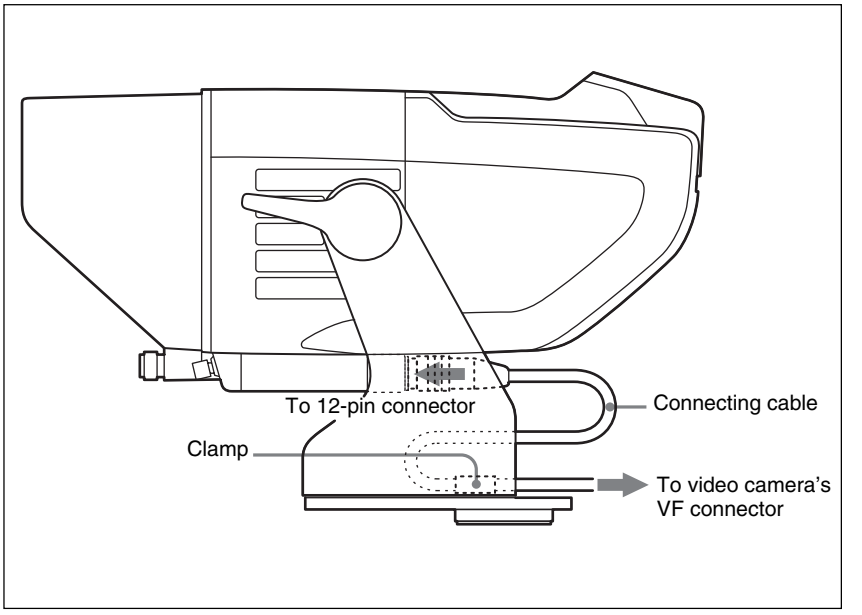


3 Slide the BVF-55 forward along the V-wedge shoe attachment until it cliks and is fixed.



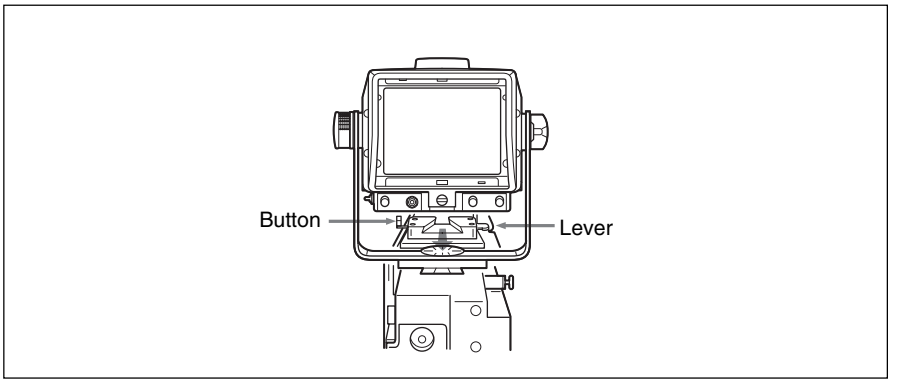
4 Detach the 1.5-inch viewfinder from the camera.
For the detaching, refer to the operation manual of the camera.

5 Connect the 12-pin connector to the video camera's VF connector using the supplied connecting cable.



To detach the BVF-55 from the camera adaptor

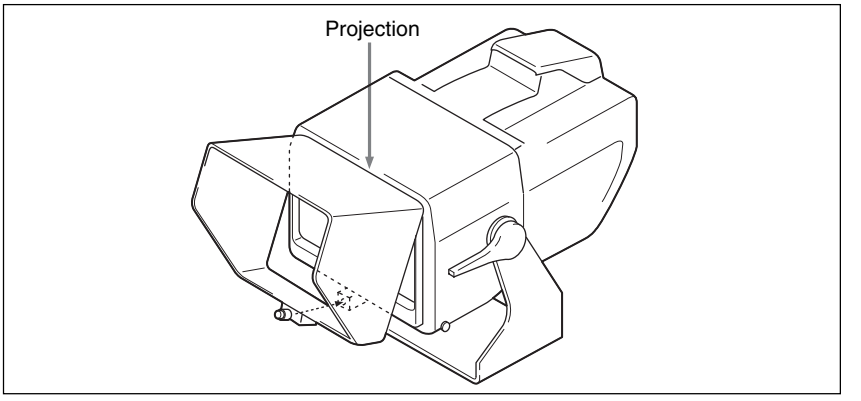
To detach the BVF-55, pull the lever and push down the button while pulling the viewfinder towards you, as shown in the figure below.



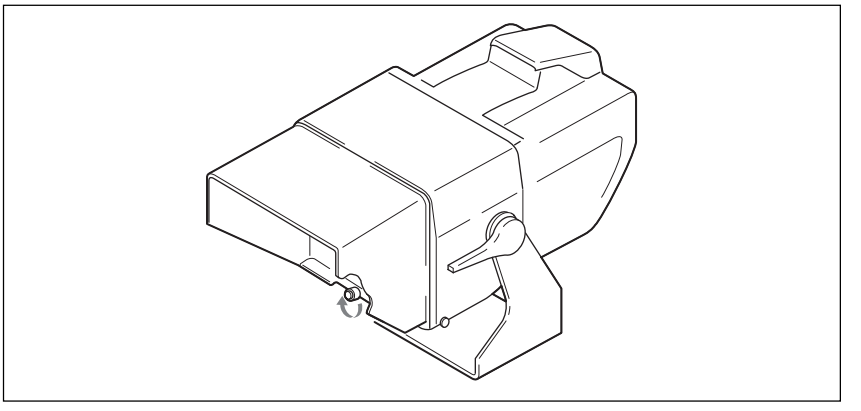
Attaching the supplied studio monitor hood or the VFH-550 optional OB hood

You can attach the VFH-550 in the same way as the studio monitor hood. This section describes the procedure of attaching the studio monitor hood.

1 To attach the hood, hook the upper part of the hood over the projection on the top of the BVF-55.

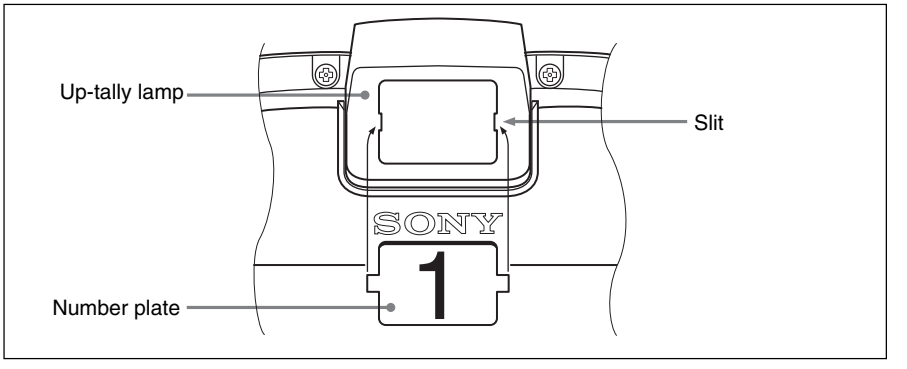


2 Tighten the screw to fix the BVF-55.



Attaching the supplied number plate

Insert the tabs on the sides of the number plate into each slit in the up-tally lamp.



How to use the BVF-55

Turning on the BVF-55

When the camera adaptor is connected to the video camera and the camera adaptor is turned on, power is supplied to the BVF-55.
The picture will appear several seconds after turning on the camera adaptor.

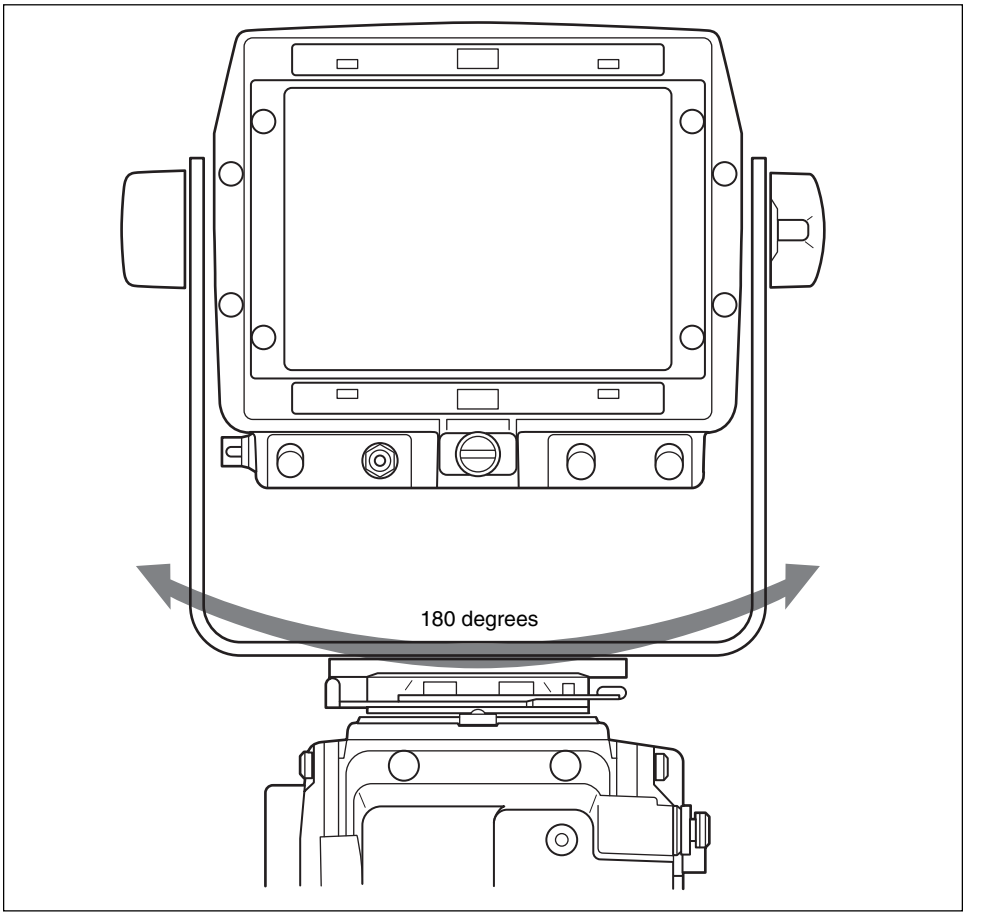
Note on using the BRIGHT control

When the BRIGHT control is turned fully counterclockwise, no picture may appear in the viewfinder.

Adjusting the viewfinder position

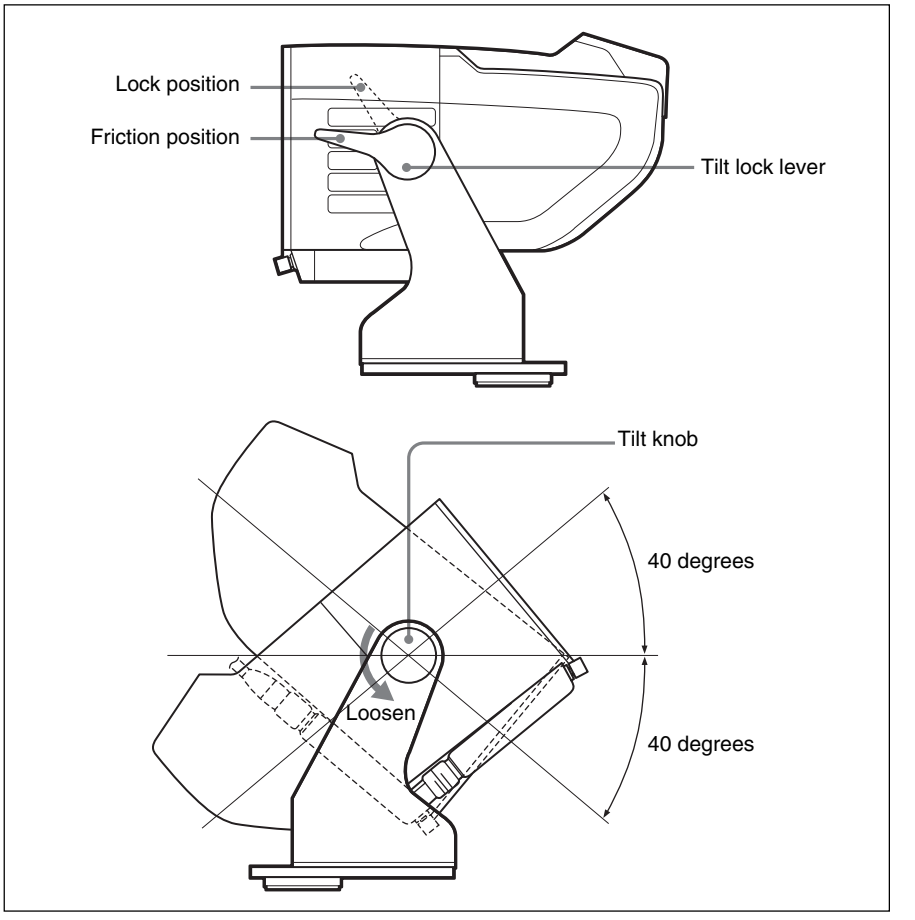
Use the BVF-55 after adjusting the viewfinder position as follows:

Panning adjustment



From the front-center position, you can rotate the viewfinder (for panning) up to 90 degrees in the left and right directions.

Tilt adjustment



1 Set the tilt lock lever to the friction position.

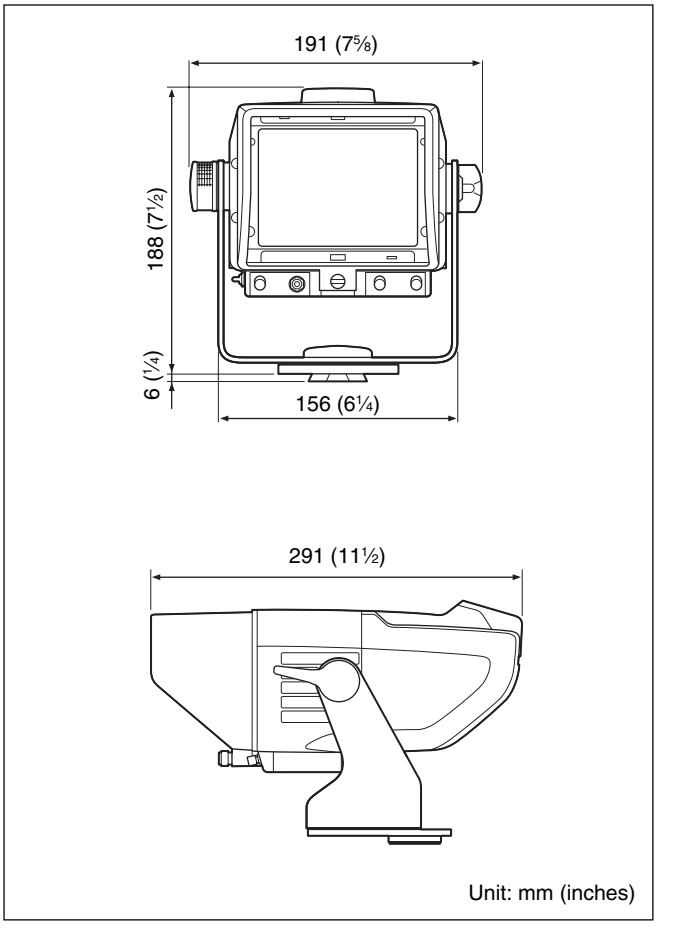
2 Adjust the friction by turning the knob.

3 Adjust the tilt.
After setting the tilt position, set the tilt lock lever to the lock position.

Specifications

CRT	5-inch monochrome
Effective viewing area	
	4:3 mode: 97 × 73 mm (w/h)
	16:9 mode: 97 × 54.56 mm (w/h)
Video signal	Model for the U.S.A. and Canada: EIA standard
	Model for other countries: CCIR standard
Scanning	2:1 interlace. 525 lines (model for the U.S.A. and Canada) or 625 lines (model for other countries).
	5% underscanning.
	Horizontal linearity error: less than 8%
	Vertical linearity error: less than 7% (4:3 mode)
Resolution	More than 650 TV lines at center
	More than 550 TV lines at corners
Input	12-pin connector
	Video input: 1 Vp-p. sync negative, 3 K ohms
Geometric distortion	
	Less than 3%
Frequency response	
	–3 dB or less (at 8 MHz)
Power requirements	
	10.5V to 17V DC, nominal 12 V DC
Power consumption	
	11 W
Operating temperature	
	–10°C to +45°C (14°F to 113°F)
Operating humidity	
	0% to 90%, non-condensing
Operating altitude	Max. 3000 m (10,000 feet)
Weight	Body: Approx. 2.3 kg (5 lb 1 oz) (including the hood)
Supplied accessories	
	V-wedge shoe attachment (1)
	Screws (4)
	Hexagonal wrench (1)
	Connecting cable (1)
	Studio monitor hood (1)
	Number plate(1)
	Socket head cap screws (4)
	Operation Manual (1)
	Glass tube fuse (1)

Dimensions



Design and specifications are subject to change without notice.