

VFL912HD

HDTV LCD Color Viewfinder

Operation Manual

Ikegami

1110 First Edition (E)

English

English

Instructions for Disposal of Electric and Electronic Equipment in Private Household



**Disposal of used Electric and Electronic Equipment
(Applicable in the European Union and other European countries with separate collection systems)**

This symbol on the product, or in the related documents in the package, indicates that this product shall not be treated as normal household waste. Instead, it should be taken to a proper applicable collection point or depot for the recycling of electric and electronic equipment.

By ensuring this product is disposed of correctly, you will help prevent possible negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources.

For more detailed information about recycling of this product, please contact your local city authority, your household waste disposal service or the place where you purchased the product.

Deutsch

Vorschriften für die Entsorgung von elektrischen und elektronischen Geräten in Privathaushalten



**Entsorgung von gebrauchten elektrischen und elektronischen Geräten
(In der Europäischen Union und anderen europäischen Ländern mit separaten Sammelsystemen anwendbar.)**

Das auf dem Produkt angebrachte Symbol, bzw. die Symbole in den in der Packung beiliegenden Dokumenten, weisen darauf hin, dass dieses Produkt nicht als normaler Haushaltsmüll behandelt werden darf. Es muss deshalb an einer dafür vorgesehenen Sammelstelle abgeliefert werden, in der das Recycling von elektrischen und elektronischen Geräten durchgeführt wird.

Durch die ordnungsgemäße Entsorgung dieses Produkts tragen Sie dazu bei, dass unsere Umwelt und unsere Gesundheit nicht durch unsachgemäße Entsorgung negativ beeinflusst wird. Mit dem Recycling von Materialien tragen wir zur Bewahrung der natürlichen Ressourcen bei.

Für nähere Informationen hinsichtlich des Recyclings für dieses Produkt sprechen Sie bitte mit Ihrer zuständigen Behörde, Ihrer Hausmüll-Entsorgungsstelle oder dem Geschäft, wo Sie das Produkt gekauft haben.

Français

Consignes de mise au rebut des appareils électriques et électroniques dans les foyers privés



**Mise au rebut des appareils électriques et électroniques
(Applicable dans l'Union Européenne et autres pays d'Europe ayant un système de récupération séparé)**

Ce symbole apposé sur le produit ou dans les documents liés se trouvant dans l'emballage indique que ce produit ne doit pas être traité comme un déchet ménager normal. Il doit être porté à un point de récupération correct ou à un dépôt pour le recyclage des appareils électriques et électroniques.

En vous assurant que ce produit est correctement mis au rebut, vous aiderez à empêcher les conséquences possibles pouvant affecter l'environnement et la santé humaine, pouvant être causées par une mauvaise manipulation des déchets de ce produit. Le recyclage des matériaux favorise la conservation des ressources naturelles.

Pour des informations plus détaillées concernant le recyclage de ce produit, veuillez contacter les autorités locales, votre service de mise au rebut des déchets ménagers ou le lieu d'achat de votre produit.

Español

Instrucciones para eliminar equipos eléctricos y electrónicos de una casa privada



**Eliminación de equipos eléctricos y electrónicos usados
(Normas aplicables en la Unión Europea y en otros países europeos con diferentes sistemas de recogida)**

Este símbolo en el producto, o en los documentos relacionados, indica que este producto no deberá ser tratado como un residuo doméstico normal. En cambio, deberá ser llevado a un punto o lugar donde los equipos eléctricos y electrónicos sean recogidos para ser reciclados.

Asegurándose de que este producto sea eliminado correctamente, usted ayudará a impedir las posibles consecuencias negativas sobre el medio ambiente y la salud humana que podrían ser causadas por el manejo inapropiado de este producto como residuo doméstico. El reciclado de los materiales ayudará a conservar los recursos naturales.

Para conocer una información más detallada acerca del reciclado de este producto, póngase en contacto con las autoridades de su localidad, con su servicio de recogida de residuos domésticos o con el comercio donde adquirió el producto.

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SAFETY PRECAUTIONS

This manual describes the precautions using various pictorial symbols for you to use the product safely. Please read these precautions thoroughly before use. The symbols and meanings are follows:

The following hazard alert symbols are used to indicate the level of impact on the body or property when you do not follow the precautions.

 WARNING	Indicates that mishandling of the product by ignoring this label may lead to a danger resulting in a serious injury or death.
 CAUTION	Indicates that mishandling of the product by ignoring this label may lead to a danger resulting in an injury or property damage.

SAFETY PRECAUTIONS

The following symbols are used to indicate the expected injury or hazards when you do not follow the precautions.

	Indicates general cautions on such matters as safe work, procedure, and installation location. Wrong operation may not directly lead to death, injury, or property damage.
	Indicates that wrong operation may cause an electric shock.
	Indicates that wrong operation may cause a fire.
	Indicates that wrong operation may cause injury.

The following symbol is used to indicate other precautions to prevent a damage or hazard from occurring:

	Symbol  shows prohibited action. (Symbol on the left side shows caution for disassembling.)
	Symbol  shows forced or instructed action (Symbol on the left side means “Pull out input plug from plug socket.”)


WARNING
When using the unit:


Don't place a receptacle containing water or small metallic pieces on this unit!
If it spills and enter the inside, a fire and an electric shock may occur.

Don't use the unit at other voltage than the indicated supply voltage!
A fire and an electric shock may be caused.

Don't put foreign matter, such as metallic pieces or combustible matter from the opening of this unit!
A fire and an electric shock may be caused.



Don't remodel this unit!
A fire and an electric shock may be caused.

When installing the unit:


Don't put on an unstable place!
It drops or turns down, causing an injury.



Don't connect to any pother equipment than specified!
A fire and an electric shock may be caused.



Ask a professional construction company for fixing this unit!
When fixing this unit, firmly fix in accordance with the specified procedure. Otherwise, it drops or falls down, causing a fire, electric shock or injury. Especially when fixing to the wall and ceiling, be sure to ask a professional construction company.

When abnormalities occur:



When abnormalities such as smoke, bad smell or sound occur, turn off the power switch immediately and draw out the input connector!

If the unit is used in such a state, a fire or electric shock will occur. Check that no smoke rises, contact the dealer or sales rep.

When water or foreign matter enters the unit, turn off the power switch immediately and draw out the input connector!

If the unit is used in such a state, a fire or electric shock will occur. Check that no smoke rises, contact the dealer or sales rep.

When the unit is dropped or the case is broken, turn off the power switch immediately and draw out the input connector!

If the unit is used in such a state, a fire or electric shock will occur. Check that no smoke rises, contact the dealer or sales rep.

When the unit fails, turn off the power switch immediately and draw out the input connector!

If the unit is used in such a state, a fire or electric shock will occur. Check that no smoke rises, contact the dealer or sales rep.



Do not use damaged VF cable (with exposed core, broken wire, etc.)!

If the unit is used in such a state, a fire or electric shock will occur. Check that no smoke rises, contact the dealer or sales rep.


CAUTION
When using the unit:


Do not place anything on the unit!
The unit may be unbalanced, turn down or drop, causing an injury.

Do not get on the unit or carrying case! Do not sit down on it!
The unit may be unbalanced, turn down or drop, causing an injury.



When moving the unit, be sure to turn off the power switch, draw out the input connector, and disconnect the connecting cable between unit and equipment.
The cord may be damaged, causing a fire or electric shock.



When the unit is not used for a long period of time, be sure to draw out the input connector safely!
A fire may be caused.



When using it in a bathroom or pool side, use care to prevent water from entering the unit and cable.
An electric shock may be caused. Pay special attention, when using the unit in the rain, during snowing, at the seaside and waterside and in a kitchen.

In time of thunder, take into consideration the operating environment.
An electric shock may occur. Stop using the unit temporarily when needed and do not touch the unit.

Do not bend the input connector excessively (or do not twist or pull it.)
The covering material of the input connector is broken, causing an electric shock.

Do not expose this equipment to rain or water.
To reduce the risk of fire or electric shock.

When installing the unit:



Do not block the ventilating hole of the unit!

Otherwise, heat may be accumulated inside, causing a fire. Avoid the following usage:

- Turning the unit upward, laying it down and inverting.
- Pushing into narrow and ill-ventilated place.
- Placing on a carpet.
- Covering with a tablecloth.

Avoid installing the unit in the following places:

Wet and dusty places.

Places exposed to smoke black or steam.

An electric shock may be caused.

Place the unit near a kitchen table or humidifier.

Take preventive measures against turndown of the unit caused by earthquake and shocks.

The unit may turn down, causing an injury.

Take preventive measures against turndown.

Maintenance



When taking care of the unit, turn off the power switch and draw out the input connector beforehand for safety.

An electric shock may occur.

In order to keep a stable performance for a long period of time, “Periodical Inspection” is recommended.

For “Periodical Inspection”, consult with the sale rep.

For the customers in USA



WARNING

INFORMATION TO USER FOR FCC

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

PREFACE

● *Read this section before use*

In order to use the product safely, thoroughly read this book and pay attention to the following matters:

○ Operating Precautions



Do not use any other power supply than specified.

Don't give a strong shock to the viewfinder.

Note that it may cause a trouble.

Avoid use and storage in the following places:

- Places attended with prescribed ambient temperature

When the viewfinder is placed near equipment that generates heat or the louver of the cabinet is blocked, temperature inside the viewfinder rises, thus shortening the life of the electric part, but also causing a trouble.

In addition, note that, the inside of the viewfinder may be heated by direct sunlight in outdoor use even if surrounding temperature is within the specified range.

- Rainy, snowy or humid places

Such places cause a short circuit or trouble.

Prevent dew condensation in such places.

When storing the viewfinder for a long period of time, do so in a cool and dark place at constant temperature and humidity.

Avoid direct sunlight to the screen of the viewfinder

Keep in mind that there is a possibility of spoiling the display performance when the screen of the viewfinder is exposed to the direct sunlight for a long period of time.



Don't apply strong external force against the screen of the viewfinder.

o not press the screen strongly. e careful not to apply strong external force to the screen of the viewfinder. The screen may be damaged, causing a trouble.

Do not touch liquid crystal leaked from the screen of the viewfinder.

When the screen of the viewfinder is accidentally broken and the liquid (liquid crystal) leaks, do not touch it with your mouth, do not inhale or do not get it to your skin.

If the liquid crystal gets in your eye or mouth, rinse it immediately with water. If your skin or clothes are stained with it, wipe off with alcohol etc. immediately and wash in water with soap.

If left stained, your skin or clothes may be damaged.

If it gets in your eye or mouth, rinse it immediately with water and receive medical treatment from a doctor.

Don't display the same pattern for a long period of time.

Keep in mind that an accidental-image may be produced when the same pattern is displayed for a long period of time.

When an accidental-image occurs, the following procedure is recommended to reduce it.

- When the viewfinder is not used, shut off power supply.
- Change the screen periodically.
- Display the whole screen in white.

Be careful of operation at low temperature.

Keep in mind that the function of the backlight will lower and the life will become short at low temperature.

It is recommended to use at normal temperature.

Quality of LCD panel

The LCD panel mounted on this viewfinder has been manufactured on the basis of high precision technology, and it can provide effective pixels of more than

However, note that some LCD panels have . . . 1 of pixel defect at all times.



Do not disassemble and remodel.

o not disassemble and remodel the viewfinder, otherwise causing a trouble or damage.

● ***Disposal***

Disposal of this product may be subject to the local government restriction. Please dispose it according to the restriction of the each local government.

● ***Cleaning the Screen***

When the screen is soiled, it is recommended to lightly wipe the screen with an absorbent cotton or soft cloth or lightly breathe on the screen before wiping it. Since the polarizing plate and protection panel on the screen may be damaged, avoid the use of organic solvent.

● ***Water Droplet on the Screen***

Do not leave water droplet and the like attached on the screen of the LCD module. When water droplet and the like is attached, wipe it immediately with an absorbent cotton or soft cloth. Otherwise, it may cause a discoloration or stain of the screen.

● ***Regular Maintenance Recommended***

This product includes parts that wear out and have a limited life even in proper use or storage. Therefore, regular maintenance is recommended to extend the life and safe use of this product for a long time. Please contact Ikegami's sales and service centers for the regular maintenance and repair of our products.

● ***Warranty***

The warranty after purchase of the product is described below.

Warranty period

The warranty period is one year after the date of purchase. However, this warranty does not apply to LCD module and fuse.

Repair Parts Stock

Ikegami will store the repair parts of this product for seven years after the production discontinues.

Questions and consultations

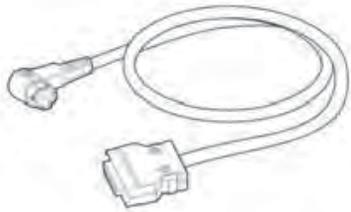
Please contact to the dealer from which you purchased the product or service branch.

● **Accessories**

The following accessories are available for the product. Check each item:

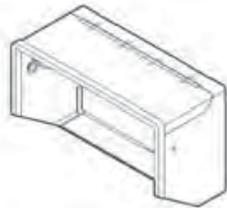
F Cable

Type No.: CVF14-1



Semi fixed hood

Type No.: HVF912HD-003



Operation manual This hood

Type No.: VFL912HD-OYY

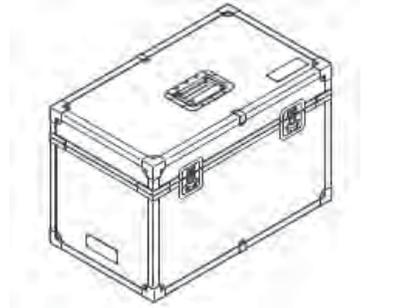


● Options

The following Options are available for the product. Please buy each item when you need:

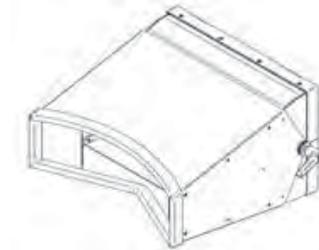
Carrying Case

Type No.: CCVFL912-007



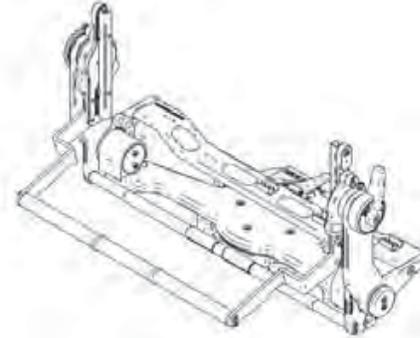
Field holder

Type No.: HVF912HD-005



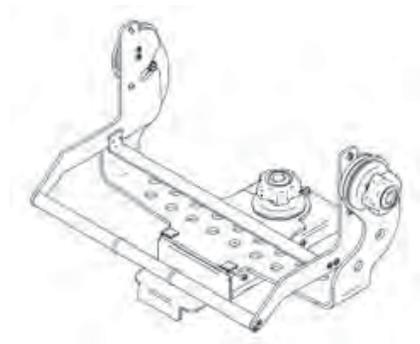
Mount Attachment

Type No.: XVF912HD-017



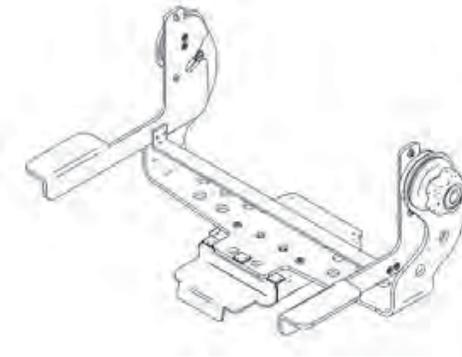
**Mount Attachment
and Camera Only**

Type No.: XVF912HD-018



**Mount Attachment
and Camera Only**

Type No.: XVF912HD-019



● **How to Read the Operation Manual**

This page explains general notes on reading the F 1 Operation Manual, and the symbols and notations used in the manual.

Notes on the Manual

- This manual is written for readers with a basic knowledge of handling broadcast cameras.
- The contents of this manual are subject to change without notice in the future.

Symbols

The meanings of the symbols used in this manual are as follows:

CAUTION:	Things you have to be careful during operation. Be sure to read.
Note:	Supplementary information or guidance.
Term:	Explains the meaning of a term you need to know.

Notations

These following notations are used in this manual

This product, viewfinder, F	Indicates F 1
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Illustrations and Displays

The illustrations and displays in the text are provided for explanation and may be slightly different from the actual equipment or image.

Structure of Operation Manual

This manual is intended to both safely and smoothly operate the F 1 .

OUTLINE

Explains the features and the main operating systems of this product.
If you are not familiar with product, please start with this chapter.

NAME and FUNCTION

Explains the name and function of each part of the viewfinder.

ATTACHING and CONNECTING

Explains how to attach and connect the viewfinder accessories.
- Connecting the F Cable
- Attaching the Semi-Fixed Hood

MENU OPERATION

Explains the MENU operations of this product.

SPECIFICATIONS

Explains the specifications of this product.

EXTERNAL VIEW

Shows external appearance of the viewfinder.

VFL912HD

T C Color ie in er

Operation Manual

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OUTLINE

F 1 is a multi-format 15-inch color LCD viewfinder for HDTV broadcasting. The F 1 adopts the WGA resolution LCD panel consist of 1 () () pixels. Thanks to this, it enables high resolution and full-color picture monitoring.

● *Features and Function*

Full color display of 16.7 million colors

16.7 million colors (24 bits color) are available at full-color display to provide fine pictures.

Support for various input signals

Compliant with SMPTE 170M, SMPTE 170E, and SMPTE RP 11.

Various markers

Marker displays such as a safety marker, an aspect marker, a crosshatch, and a center marker are available. And it is possible to display the user markers which can describe any box or Cross markers.

OT OT display

All the picture elements of an input signal are displayed 1:1 according to the pixels of the LCD panel without scaling the incoming signal.

WF SC display

The Wave Form monitor and the Vector Scope can display.

External input

SDI signal can display, and external power can supply to the F 1 with each external input connector.

External memory

It can memorize the F 1 status using with the SD memory. And it can also download the F 1 status in the external memory to the F 1.

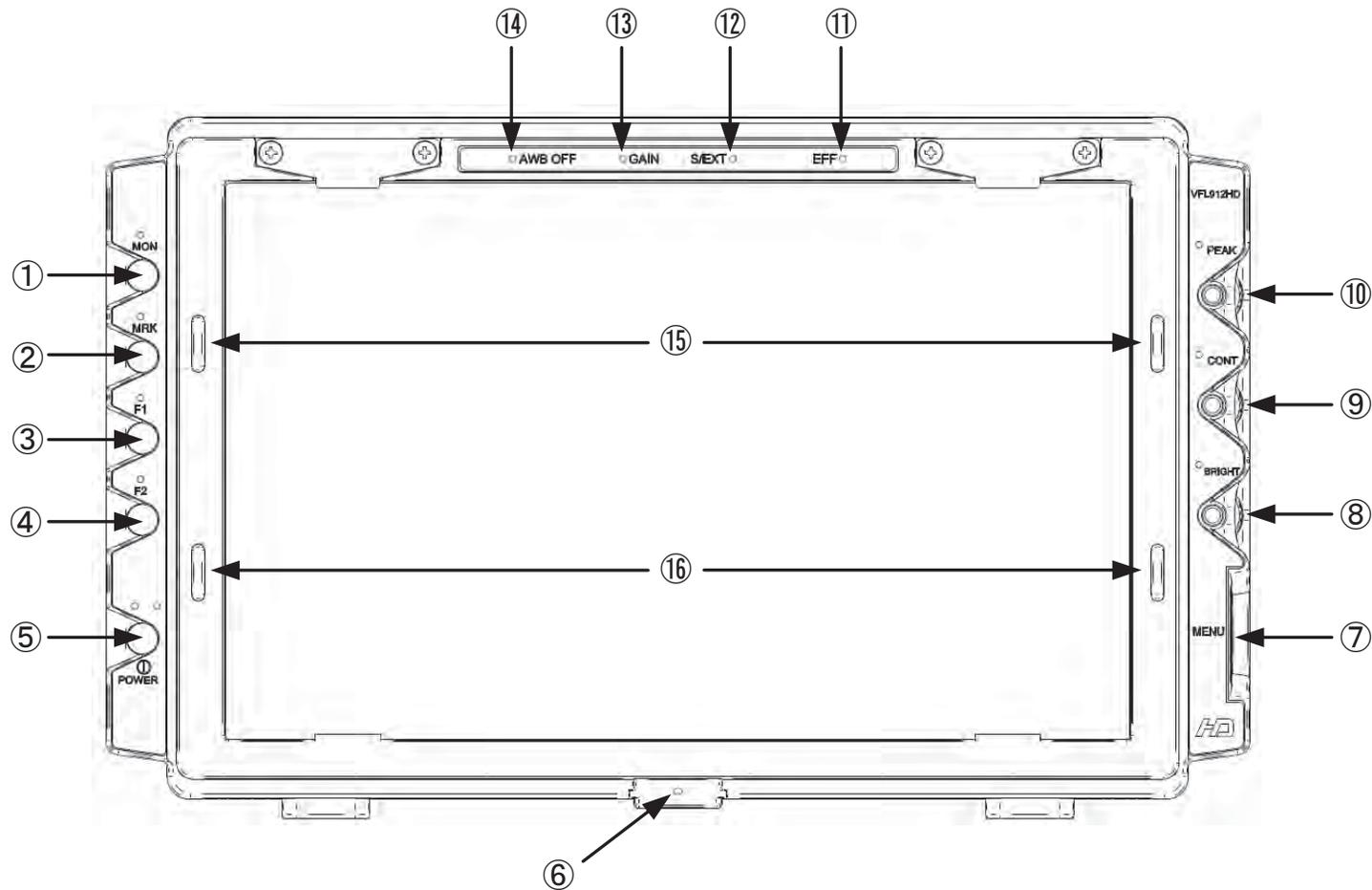
Control with USB mouse

It can control the E operation of F 1 using with the S mouse. Especially the user marker can draw smoother using with the S mouse.

Name an Function

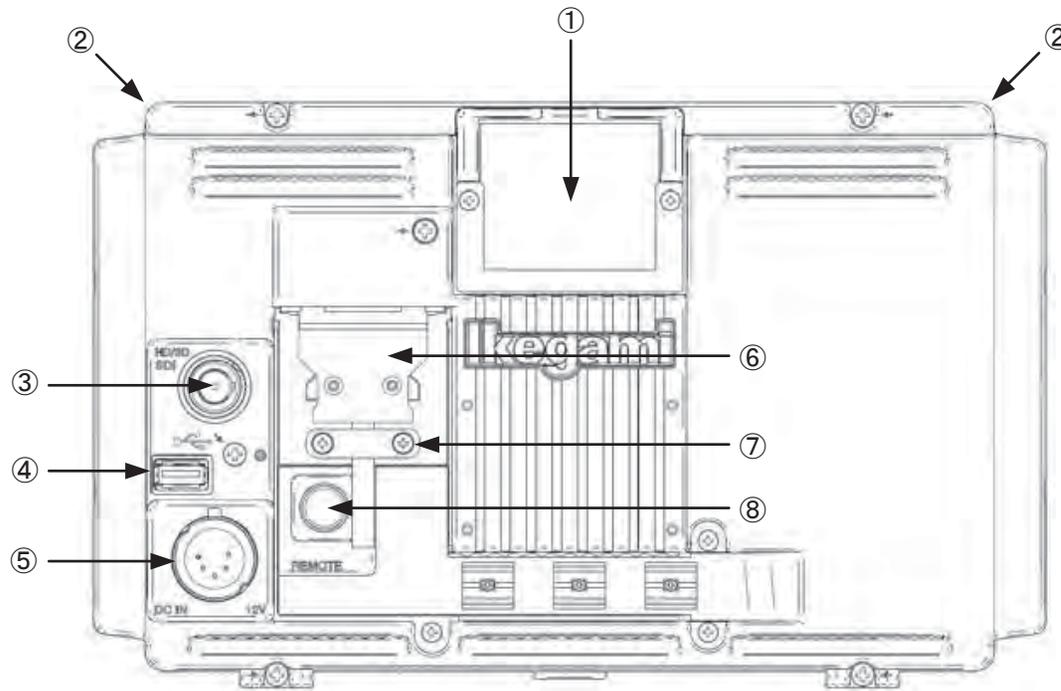
This section explains the names and the functions of product parts.

FRONT / W



No	NAME	FUNCTION
①	CO switch	Used to change color to monochrome.
②	MARKER switch	Used to turn ON/OFF the marker. Refer to “ ■ displays in the viewfinder”(P. 5) for the type of marker.
③	F1 switch	Used to turn ON/OFF the function set at E 1.
④	F2 switch	Used to turn ON/OFF the function set at E 1.
⑤	POWER switch	Used to turn ON/OFF power supply. When power is ON, the green LED on the left side above this switch lights up. When the low supply power voltage is detected, the amber LED on the right side above this switch lights up. (Only the case using external power.)
⑥	Threaded hole	Used to attach the semi-fixed hood.
⑦	RECALL switch	Mainly used to control RECALL.
⑧	BRIGHTNESS volume	Adjust brightness of the picture. While the RECALL lights down, it is in PRESET status.
⑨	CONTRAST volume	Adjust contrast of the picture. While the RECALL lights down, it is in PRESET status.
⑩	EDGE volume	Adjust peaking amount of the picture edge. While the RECALL lights down, it is in OFF status.
⑪	EFF led	Lights up when effective filter of the camera is used.
⑫	STBY led	Lights up when the camera is in stand-by mode and when lens extender is used.
⑬	AI led	Lights up when gain-up control is in progress.
⑭	AW OFF led	Lights up when the AW of the camera is OFF.
⑮	R-TA 1 led	Lights up when R-TA signal is received from the camera (during recording or ON AIR).
⑯	R-TA 2 led	Lights up when R-TA signal is received from the camera. It is possible to light up R-TA 2 in conjunction with R-TA 1.

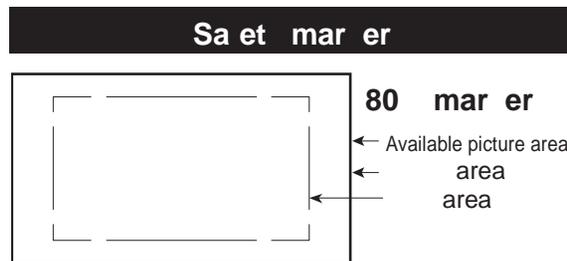
■ R A R I W



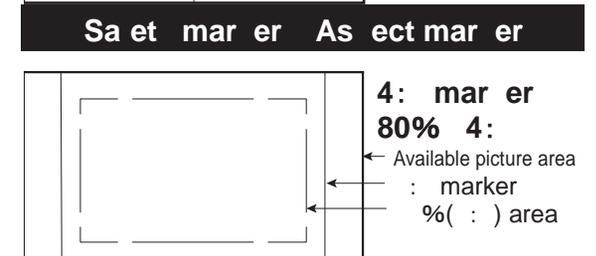
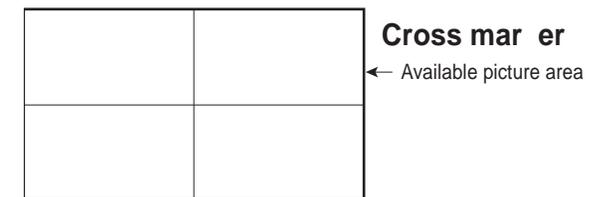
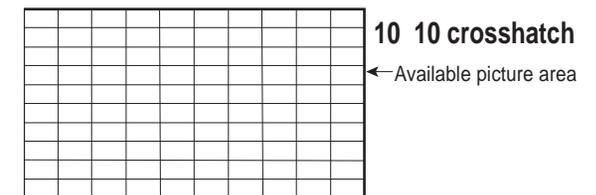
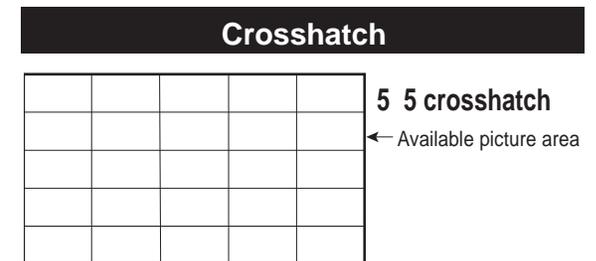
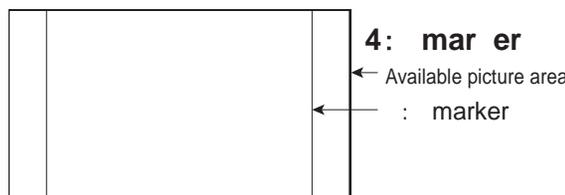
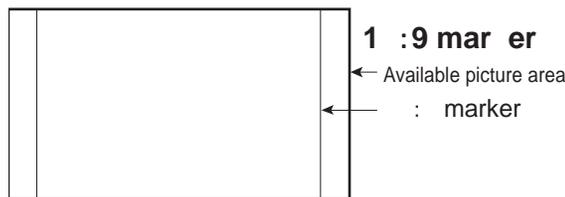
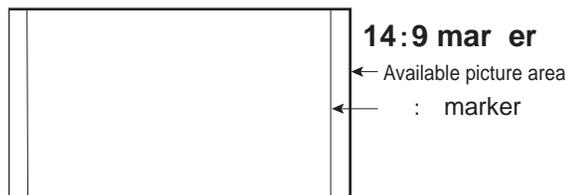
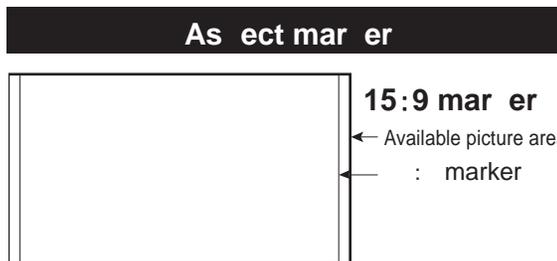
No	NAME	FUNCTION
①	Front TA	lights up when R-TA signal is received from the camera. It operates independently of F TA in the FRO T IEW.
②	Side TA	lights up and lights down in conjunction with Front TA .
③	S I input connector	Connector for S I signal.
④	S connector	Connector for S memory or S mouse.
⑤	E T C connector	Connector for external C power input.
⑥	F cable	The F cable for T .
⑦	Cable holder	The accessory to fix F cable.
⑧	RE OTE connector	The connector for remote. This function is under development.

■ **Display in viewfinder**

A safety marker, an aspect marker, a crosshatch, and a center marker are displayed in the viewfinder screen. The safety marker can be displayed together with the aspect marker. And it is possible to put the shadow on the outside area of the aspect marker. Moreover, three kinds of cross hatch can be displayed. A center marker can be ON/OFF in any markers.



The percent area can be changed from 80% to 100% at the next step.



ATTAC IN an CONNECTIN

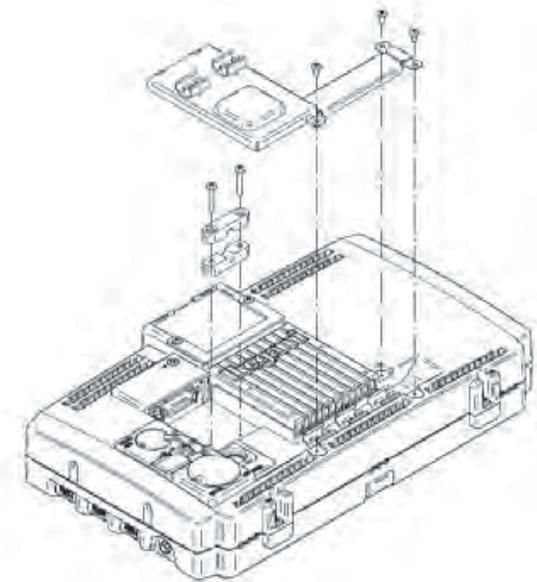
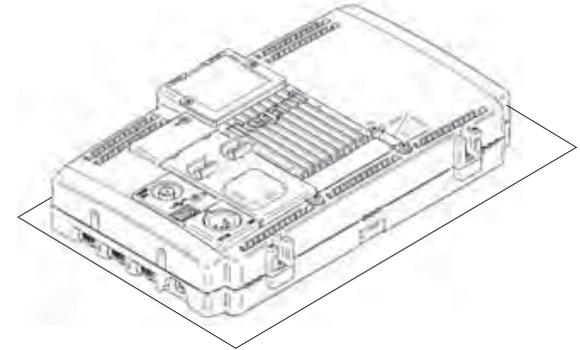
■ Connecting the F cable

- 1 Place the F 1 with the C face down.

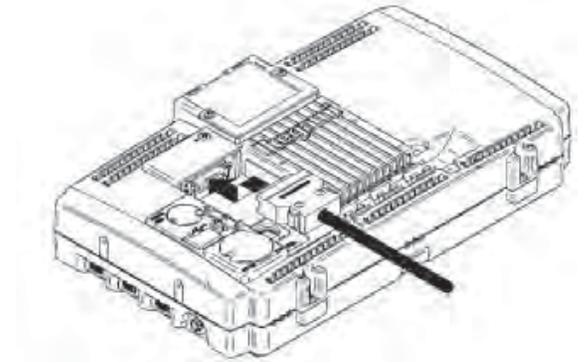
CAUTION:

When placing, put paper or cloth under the C face not soil or scratch the C .

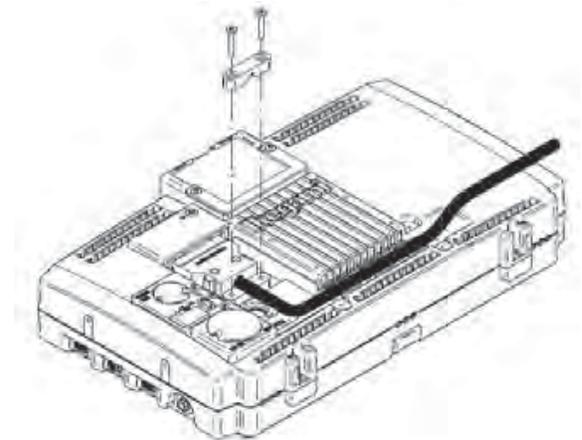
- 2 Loosen screws and remove the cable cover and the cable holder.



- 3 Connect the F cable.
Align the pin positions of the F cable and push it until you hear click.



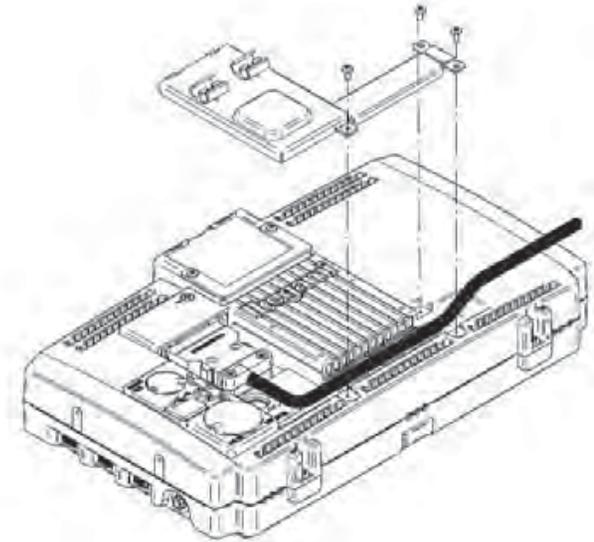
- 4 Tighten the screw of the cable holder.
Attach the F cable to the cable clamp.



- 5 Put the cable cover and tighten the screws.
Align the pin positions of the F cable and push it until you hear click.

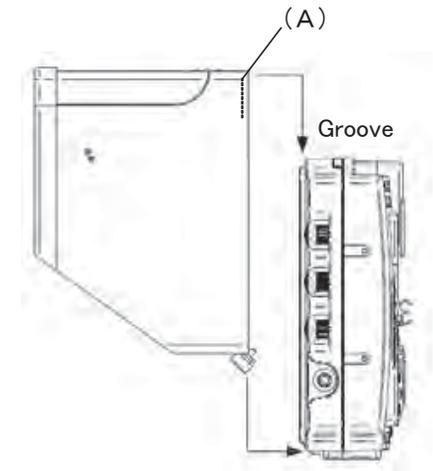
Note:

When removing the F cable, operate in reverse sequence.



■ Attaching the Semi Fixed Hood

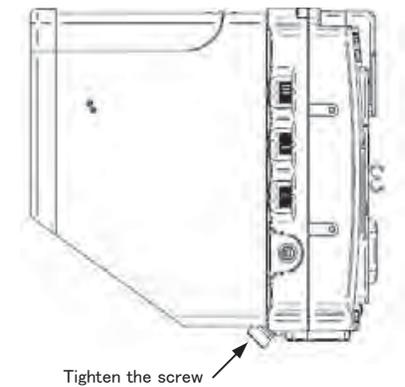
- 1 Fit the blade (A) on the top of the hood to the groove on the upper front side of the F.



- 2 Insert the hood, and set screw to the threaded hole on the lower front side of the F, then tighten the screw.

Note:

When removing the Semi-Fixed Hood, operate in reverse sequence.



MENU OPERATION

■ Operating the menu

The E switch can push center and four directions.

● Center push (press and hold)

Used to turn ON/OFF the E.

● Center push

When the E is ON, set the E item.

When the E is OFF, it does not operate.

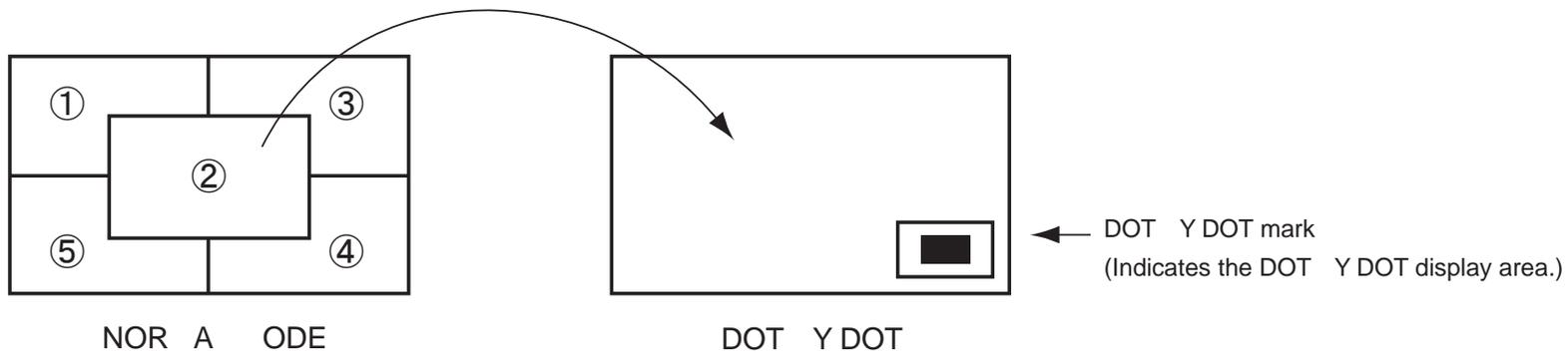
● Four directions push (UP/DOWN/RIGHT/LEFT)

When the E is ON, move the E cursor to choose the E item.

When the E is OFF, it does not operate.

When the ser marker is drawing, it changes position or size of the ser marker.

When the OT- - OT is ON, it selects the OT- - OT display area.



■ enu facility

●Function description of MENU ASSIGNMENT

①ASSIGN MENU

Adds the E item to upper six “ ” areas.

②DELETE MENU

Deletes the E item it has already added to “ ” areas.

③ASSIGN F1

Assigns a function to the F1 switch in the front side of the F. Setting value is S I, TA , , SR R , WF , SC, and OO I .

The factory default is “ SR R ”.

④ASSIGN F2

Assigns a function to the F2 switch in the front side of the F. Setting value is S I, TA , , SR R , WF , SC, and OO I .

The factory default is “ ”.

⑤SW STATUS DISP

Sets the F1 F switch status display O OFF when the status is changed.

The factory default is “O ”.

```

*** MENU1 (ASSIGNMENT) ***
← (PAGE) →
*.
*.
*.
*.
*.
*.
1. ASSIGN *MENU
   →DELETE *MENU
2. ASSIGN F1           USRMRK
3. ASSIGN F2           DBD
4. SW STATUS DISP.    ON
EXIT

```

● **Function description of MENU SETTING**

① **REAR Y/PbPr**

Sets "R" when the input signal from the camera is R .
 Sets " PbPr" when the input signal from the camera is PbPr.
 The factory default is "R" .

② **SHUTTER INPUT**

Sets ON/OFF of the SHUTTER input.
 The factory default is "OFF" .

③ **FRONT TAPE LIGHT**

Selects the brightness of the Front TAPE LIGHT .
 When " ON" is set, it lights up brightly in conjunction with the signal from the camera, and when " OFF", it lights up darkly. When "OFF" is set, it is forced to lights down the Front TAPE LIGHT .
 The factory default is " ON" .

④ **FRONT TAPE LIGHT**

Selects the luminance of the FRONT TAPE LIGHT .
 When " ON" is set, it lights up brightly in conjunction with the signal from the camera, and when " OFF", it lights up darkly.
 The factory default is " ON" .

⑤ **TAPE LIGHT MODE**

Selects the FRONT TAPE LIGHT mode.
 "R" or "RR" are indicated the color of the TAPE LIGHT , and
 "-SIDE" or "-AREA" or "-AREA" are indicated the area of the TAPE LIGHT display.
 The factory default is "R -SIDE" .

⑥ **BACKLIGHT DIMMING**

Sets the luminance of the BACKLIGHT .
 Setting value is 1 to 10 .
 The factory default is " 5" .

⑦ **BATTERY TYPE**

Selects proper mode according to the mounted battery's nominal voltage to set up the proper voltage of alarm display and stop discharging.
 Setting value is Ext. C, C 1 . 2 and C 1 . 3 .
 •Ext. C : Stable C power supply.
 • C 1 . 2 : battery of " 1 . 2 " for nominal voltage.
 • C 1 . 3 : battery of " 1 . 3 " for nominal voltage.
 In order to get the nominal voltage of the battery, refer to the battery body or its operation manual.
 The factory default is "Ext. C" .

⑧ **OOM INDICATOR**

Displays the indicator of the OOM position of the camera.
 The factory default is "OFF" .

*** MENU2 (SETTING1) ***

← (PAGE) →

1. RGB/YPbPr	RGB
2. SDI INPUT	OFF
3. FRONT TALLY	LOW
4. VF TALLY	LOW
→TALLY MODE	R/G-SIDE
5. BACKLIGHT DIM.	7
6. BATTERY TYPE	Ext. DC
7. ZOOM INDICATOR	OFF

EXIT

● **Function description of MENU 4 (MARKER)**

① **MARKER SELECT**

Selects the marker display.

Setting value is SAFETY, CROSS5, CROSS1, C.CROSS, ASPECT and ASP SAF.

The factory default is "SAFETY".

② **ASPECT MARKER**

Selects the aspect of the aspect marker.

Setting value is 1:1, 1:1 and 15:1.

The factory default is "1:1".

③ **MARKER MODE**

Selects the mode of the aspect marker.

Setting value is RANGE, AREA and SHADOW.

The factory default is "RANGE".

④ **SHADOW LEVEL**

Selects the shadow level of the aspect marker.

Setting value is 0%, 50% and 100%.

The factory default is "50%".

⑤ **SAFETY MARKER**

Selects the area of the safety marker.

Setting value is 1 to 5 (1 step).

The factory default is "1".

⑥ **CENTER MARKER**

Sets ON/OFF of the center marker.

The factory default is "OFF".

⑧ **MARKER COLOR**

Selects the color of the marker.

Setting value is WHITE, SHADOW, AREA, REVERSE, AREA TA, REVERSE and OFF.

The factory default is "WHITE".

```

*** MENU4 (MARKER) ***

← (PAGE) →
1. MARKER SELECT          SAFETY
2. ASPECT MARKER         4:3
   →MARKER MODE          MRK+SHD
   →SHADOW LEVEL         60%
3. SAFETY MARKER         80%
4. CENTER MARKER         OFF
5. MARKER COLOR          ■

EXIT
    
```

● **Functional description of MENU5 (USER MARKER)**

① **BOX MARKER**

Sets the BOX MARKER.

Pushing the right switch, the E cursor will shift the status as follows OFF → Color setup → data, and can be changed status on each status.

If data is chosen, it will become box marker describe mode, and if SIZE or POSI is chosen, it will be able to describe the marker with E switch.

The factory default is "OFF" and "E OFF".

The factory default of SIZE is "(300, 100)".

The factory default of POSI is "(160, 90)".

② **CROSS MARKER**

Sets the CROSS MARKER.

The factory default is "OFF" and "E OFF".

The factory default of SIZE is "(500, 500)".

The factory default of POSI is "(320, 180)".

③ **CRS1**

Sets the CROSS MARKER 1.

Pushing the right switch, the E cursor will shift the status as follows OFF → Color setup → data, and can be changed status on each status.

If data is chosen, it will become cross marker describe mode, and if POSI is chosen, it will be able to describe the marker with E switch.

The factory default is "OFF" and "E OFF".

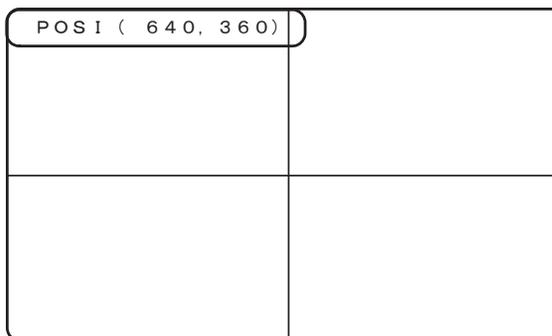
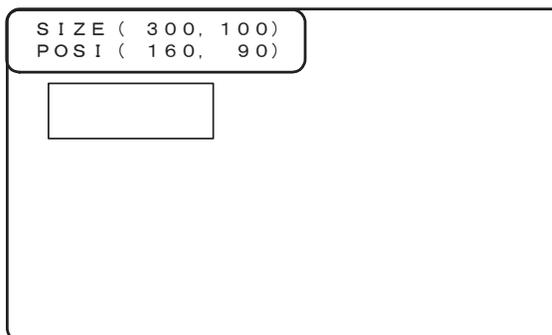
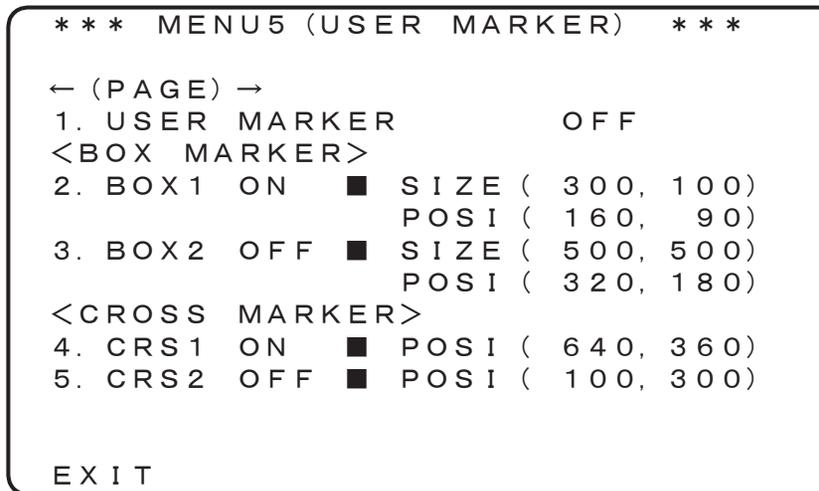
The factory default of POSI is "(640, 360)".

④ **CRS2**

Sets the CROSS MARKER 2.

The factory default is "OFF" and "E OFF".

The factory default of POSI is "(100, 300)".



● **Functional description of MENU FUNCTION**

① **WFM DISPLAY**

Sets ON/OFF the Wave Form monitor display.
The factory default is "OFF".

② **BRIGHTNESS**

Selects the brightness of the WFM.
Setting value is 1, 2 and 3.
The factory default is "2".

③ **SCALE**

Sets the size of the WFM.
Setting value is 100% and 50%.
The factory default is "100%".

④ **POSITION**

Sets the display position of the WFM.
Setting value is RIGHT, CENTER and LEFT.
The factory default is "RIGHT".

⑤ **COLOR**

Sets the color of the WFM.
Setting value is WHITE and BLUE.
The factory default is "WHITE".

⑥ **VECTOR SCOPE**

Sets ON/OFF the Vector Scope display.
The factory default is "OFF".

⑦ **BRIGHTNESS**

Sets the brightness of the Vector Scope.
Setting value is 1, 2 and 3.
The factory default is "2".

⑧ **MAGNIFICATION**

Sets the magnification of the Vector Scope.
Setting value is 1, 2 and 3.
The factory default is "1".

⑨ **SCALE**

Changes the COLOR of the Vector Scope.
Setting value is 1 and 2.
Set "2" when 2 COLOR is displayed.
Set "1" when 1 COLOR is displayed.
The factory default is "1".

⑩ **POSITION**

Sets the display position of the Vector Scope.
Setting value is RIGHT, CENTER and LEFT.
The factory default is "RIGHT".

⑪ **COLOR**

Sets the color of the Vector Scope.
Setting value is WHITE and BLUE.
The factory default is "WHITE".

ENU OPERATION

*** MENU6 (FUNCTION) ***

← (PAGE) →

1. WFM DISPLAY	OFF
→DIMMER	MID
→SIZE	NORMAL
→POSITION	RIGHT
→COLOR	WHITE
2. VECTOR SCOPE	OFF
→DIMMER	MID
→MAGNIFICATION	X1
→SCALE	100%
→POSITION	RIGHT
→COLOR	WHITE

EXIT

● **Functional description of MENU7 (USB MEMORY)**

① **WRITE TO MEM**

Writes the F status data to the S memory.

② **DATE Y M**

Sets the date of writing the F status data to the S memory.

The factory default is "11 / 1 / 1".

③ **TIME :M**

Sets the time of writing the F status data to the S memory.

The factory default is " : ".

④ **OWN OA**

Download the F status data in the S memory to the F.

Only the data selected from E SW, PRESET and SR R can be download.

If no data is in the S memory or the data is changed, it will display the error message.

```

*** MENU7 (USB MEMORY) ***
← (PAGE) →
<VF→USB MEMORY>
1. WRITE TO MEM          EXECUTE
   →DATE (Y/M/D)        11/01/01
   →TIME (H:M)           00:00

<USB MEMORY→VF>
2. DOWNLOAD              EXECUTE
   □MENU&SW
   □PRESET
   □USRMRK              ALL

EXIT

```

● **Functional description of MENU INFO/RESET**

① **MPU VERSION**

Displays the version of MPU.

② **FP A VERSION**

Displays the version of FPGA.

③ **WORKING TIME**

Displays the total working time of the device.

④ **RESET MENU SW**

Resets the menu and the switch status to the factory default.

⑤ **RESET PRESET**

Resets the PRESET status setting at the device to the factory default.

⑥ **RESET USERMARKER**

Resets the user marker status setting at the device to the factory default.

The factory default is "A".

```

*** MENU8 (INFO/RESET) ***
← (PAGE) →
1. MPU VERSION          01. 05
2. FPGA VERSION        01
3. WORKING TIME        0H

4. RESET MENU&SW
5. RESET PRESET
6. RESET USRMRK        ALL

EXIT
    
```

SPECIFICATIONS

This chapter explains the specification of the product and F Connector.

Product specification

Item	Specifications	
General specification	Power supply	Class 1 (Class 1.5 1)
	Power consumption	less than 1.5W
	Ambient temperature	-10°C to 50°C
	Humidity	5% (no condensation)
	Dimension	mm (W) x 155mm (H) x 5.5mm (D)
	Weight	1.0 kg (Without any Attachments and hoods)
	Installation operation places	Indoor and outdoors (When using outdoor, protect against dust, drops and direct sunlight)
Rated specification	Input signal	Analog RGB Pr
	Input signal level	S:1.0V p-p(including S-C)straight polarity R Pr: 0.7V p-p straight polarity
	Input impedance	50ohms
	Screen size	15.5inch diagonal 15.5-inch size
	Screen brightness	500 cd/m ² or more (at 25°C)
	Color temperature	6500K
	Drive method	a-Si TFT active matrix, line-sequential scanning (non interlace)
	Display method	Transmission type, normally black mode
	Pixel arrangement	RGB vertical strip
	Contrast ratio	1000:1 (Typical)
	Angle of visibility	170° p-and-over 170°, Right-and-left 170°
	Color reproduction range	100% (compared with NTSC)
	Response speed	Rising: 10ms, Falling:10ms (Typical at 25°C)
	Supported input signal	Compliant with SMPTE 170M, SMPTE 170F, SMPTE 170E

SPECIFICATIONS

■ F Connectors

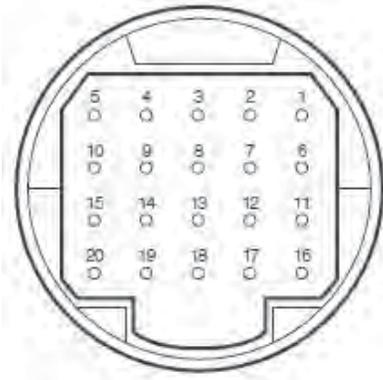


1 - S (F side connector)

Pin No	Name	Function	I O	E ternal Inter ace
1	1	C 1 power supply	I	
	1	C 1 power supply	I	
	()	—	—	
	1 RET (F)	for C 1 power supply	RET	
5	1 RET (F)	for C 1 power supply	RET	
	F I EO	I EO input signal	I	
	F I EO RET	for I EO input signal	RET	
	SP C	Clock pulse for serial data connection	I	
	SP WR	Read pulse for serial data connection	I	
1	SP ATA	ata pulse for serial data connection	I	
11	1 RET	for C 1 power supply	RET	
1	E RA O	E RA signal O OFF switching	O T	
1	OO POS	oom position control	I	
1	()	—	—	
15	CO OR F	CO OR F detection	O T	
1	Pb I EO	Pb F I EO input signal	I	
1	Pb I EO RET	for Pb F I EO signal	RET	
1	R Pr I EO	R Pr F I EO input signal	I	
1	R Pr I EO RET	for R Pr F I EO signal	RET	

Pin No	Name	Function	I/O	External Interface
	SHIELD	For external shield	RET	
1	RET O	RET selection control	I	
	RESERVE	—	—	
	CO POSITIVE	CO POSITIVE input signal	I	
	.C.	—	—	
5	.C.	—	—	
	PC	for RS C	I	
	PC T	T for RS C	O T	
	PC R	R for RS C	I	

R1 -1 A PS (Camera side connector)

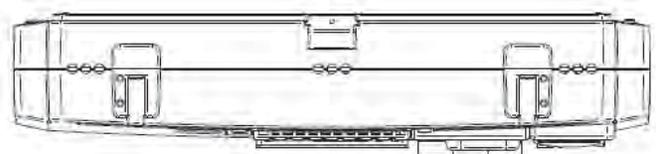
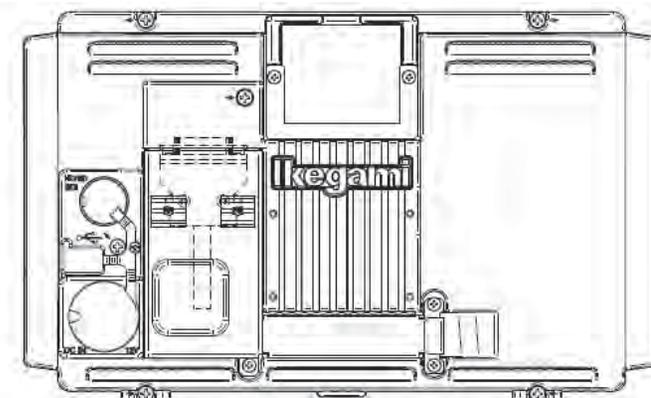
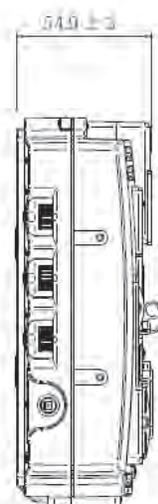
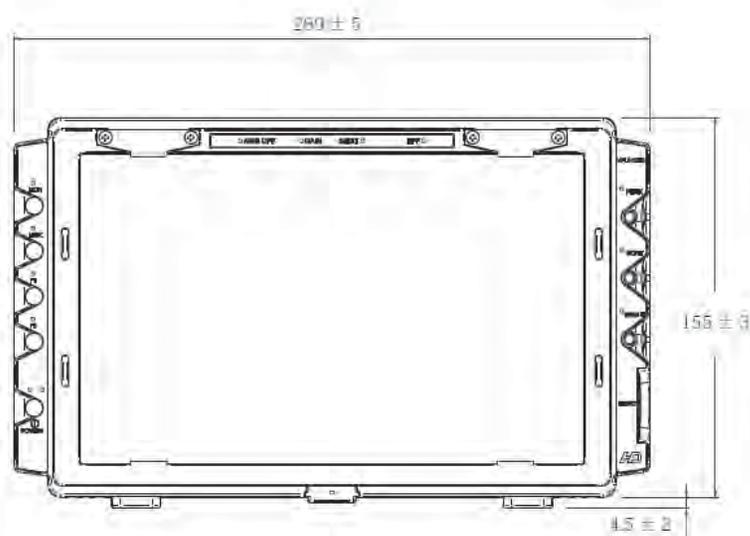
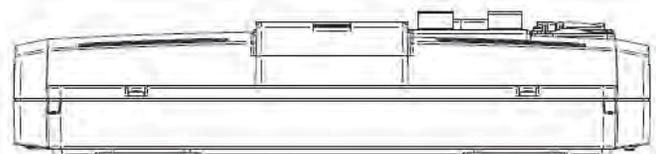


Pin No	Name
1	1 R
	1 R
	—
5	
	I EO I
	I EO RET
	SPC
	SPWR
1	SP ATA

Pin No	Name
11	E
1	E RA
1	OO POS
1	—
15	CO OR F
1	Pb I EO I
1	Pb I EO RET
1	R Pr I EO I
1	R Pr I EO RET
	S IE

外觀圖 / EXTERNAL VIEW

單位 / unit [mm]





VFL912HD

HDTV LCD Color Viewfinder
オペレーションマニュアル

初版 : 2011 年 10 月

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