FOR.A®
INNOVATIONS IN VIDEO
and AUDIO TECHNOLOGY

# OPERATION MANUAL

## UF-NETRU

Remote Control Unit

1st Edition

FOR-A COMPANY LIMITED

# Precautions

## Important Safety Warnings

### [Power]

| | |
|---|---|
|  Caution | Operate unit **only** on the specified supply voltage. |
|  | Disconnect power cord by connector only. **Do not** pull on cable portion. |
|  Stop | **Do not** place or drop heavy or sharp-edged objects on power cord. A damaged cord can cause fire or electrical shock hazards. Regularly check power cord for excessive wear or damage to avoid possible fire / electrical hazards. |

### [Grounding]

| | |
|---|---|
|  Caution | **Ensure** unit is properly grounded at all times to prevent electrical shock hazard. |
|  Hazard | **Do not** ground the unit to gas lines, units, or fixtures of an explosive or dangerous nature. |
|  Caution | **Ensure** power cord is firmly plugged into AC outlet. |

### [Operation]

| | |
|---|---|
|  Caution | **Do not** operate unit in hazardous or potentially explosive atmospheres. Doing so could result in fire, explosion, or other dangerous results. |
|  Caution | **Do not** allow liquids, metal pieces, or other foreign materials to enter the unit. Doing so could result in fire, other hazards, or unit malfunction. |
|  | If foreign material does enter the unit, turn power off and disconnect power cord **immediately.** Remove material and contact authorized service representative if damage has occurred. |

### [Transportation]

| | |
|---|---|
|  Caution | **Handle** with care to avoid shocks in transit. Shocks may cause malfunction. When you need to transport the unit, use the original packing materials or alternate adequate packing. |

## [Circuitry Access]

| | |
|---|---|
|  | **Do not** remove covers, panels, casing, or access circuitry with power applied to the unit! Turn power off and disconnect power cord prior to removal. Internal servicing / adjustment of unit should only be performed by qualified personnel. |
|  Stop | **Do not** touch any parts / circuitry with a high heat factor.<br>Capacitors can retain enough electric charge to cause mild to serious shock, even after power is disconnected. Capacitors associated with the power supply are especially hazardous. Avoid contact with any capacitors. |
|  Hazard | Unit **should not** be operated or stored with cover, panels, and / or casing removed. Operating unit with circuitry exposed could result in electric shock / fire hazards or unit malfunction. |

## [Potential Hazards]

| | |
|---|---|
|  Caution | If abnormal smells or noises are noticed coming from the unit, turn power off immediately and disconnect power cord to avoid potentially hazardous conditions. If problems similar to above occur, contact authorized service representative **before** attempting to again operate unit. |

## [Consumables]

| | |
|---|---|
|  Caution | The consumables used in unit must be replaced periodically. For further details on which parts are consumables and when they should be replaced, refer to the specifications at the end of the Operation Manual. Since the service life of the consumables varies greatly depending on the environment in which they are used, they should be replaced at an early date. For details on replacing the consumables, contact your dealer. |

## [Rubber Feet]

| | |
|---|---|
|  | If this product has come with rubber feet attached by screws, do not insert the screws again without rubber feet after removing the rubber feet and screws. It may cause damage to the internal circuits or components of the unit. To install the rubber feet again to the unit, do not use other than the supplied rubber feet and screws. |

# Upon Receipt

## Unpacking

UF-NETRU units and their accessories are fully inspected and adjusted prior to shipment. Operation can be performed immediately upon completing all required connections and operational settings.

Check your received items against the packing lists below.

| ITEM | QTY | REMARKS |
|---|---|---|
| UF-NETRU | 1 | |
| AC Cord | 1 set | |
| Rack Mount Brackets | 1 set | EIA standard type |
| Operation Manual | 1 | |

UF-112 and UFM-30CTL are required when controlling UFM-30FS modules from the UF-NETRU remotely.

## Check

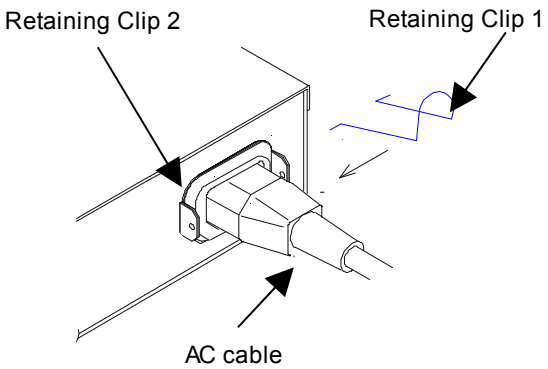
Check to ensure no damage has occurred during shipment. If damage has occurred, or items are missing, inform your supplier immediately.

## Trademark

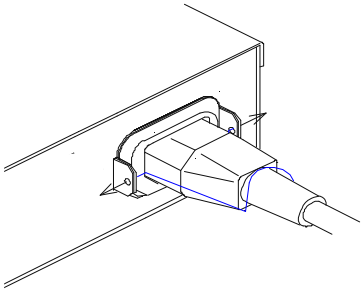
Microsoft ® Windows ® 2000 and XP operating systems are trademarks of Microsoft Corporation.
Internet Explorer™ is a trademark of Microsoft Corporation.

## Installing the AC Cord Retaining Clips

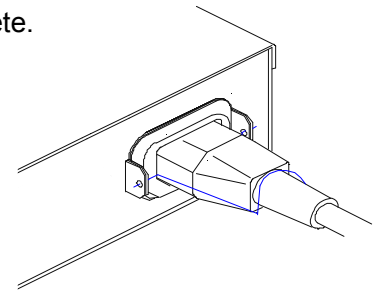
1) Securely plug the AC cord into the AC inlet.
2) Attach Retaining Clip 1 from the side of the AC cord.



3) Install the both ends of Retaining Clip 1 into the holes of Retaining Clip 2.



The installation is now complete.



# Table of Contents

# 1. Prior to Starting

## 1.1. Welcome

Congratulations! By purchasing UF-NETRU Remote Control Unit you have entered the world of FOR-A and its many innovative products. Thank you for your patronage and we hope you will turn to FOR-A products again and again to satisfy your video and audio needs.
FOR-A provides a wide range of products, from basic support units to complex system controllers, which have been increasingly joined by products for computer video based systems. Whatever your needs, talk to your FOR-A representative. We will do our best to be of continuing service to you.

## 1.2. Features

The UF-NETRU is a remote controller to control UFM-30FS module via an UFM-30CTL network controller that is installed in the same UF frame with the UFM-30FS module.

- ➢ Control over UFM-30FS settings
- ➢ Control over Events in UFM-30FS, as well as Saving and loading 50 events in UFM-30FS and in UF-NETRU
- ➢ Up to 10 UF-NETRU units configurable to control UFM-30FS modules

## 1.3. Recommended PC Environments

A computer as shown below is needed for network and authentication settings of UF-NETRU. (See section 8. ”Network Setting”)

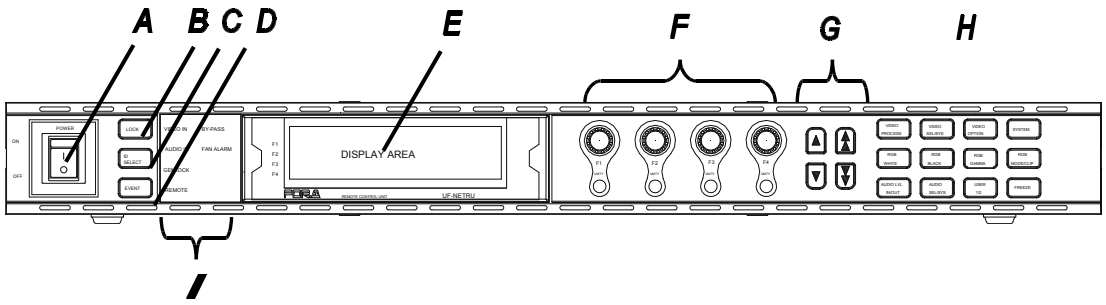
| Item | Recommended |
|---|---|
| Processor | Intel Pentium 4, 2.4GHz or higher |
| RAM | 1GB or more |
| Operation System | Windows XP SP2 or later (*1)<br>Windows Vista SP1 or later |
| Available Hard Disk Space | 1GB or more |
| Interface | Ethernet, 1 port |
| WEB browser | Internet Explorer7<br>(Javascript must be enabled.) |
| Display | 1024 x 768 (XGA) or higher, 24-bit or 32-bit full color |

(*1)The Windows XP SP3 upgraded via the Internet may cause malfunction. Use XP SP2 or the XP SP3 which is initially installed from a default OS Package including SP3 updates.

# 2. Panel Descriptions

## 2.1. Front Panel

Connectors and indicators located on the front panel of UF-NETRU are as shown and described in the figure and text below.



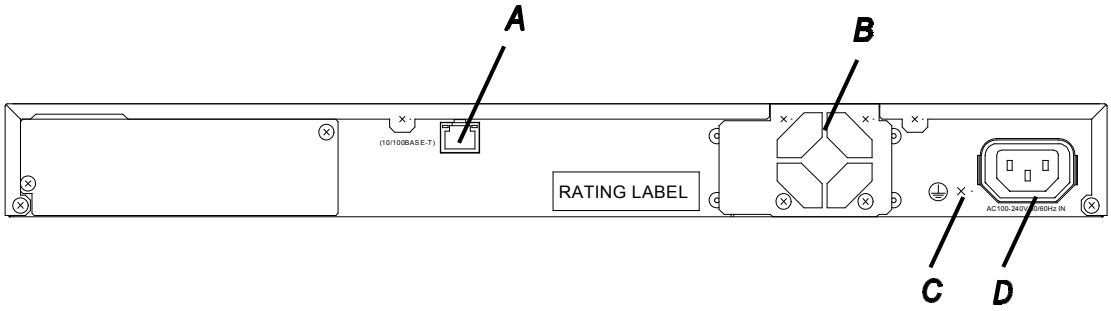

| Item | Name | Description | | |
|---|---|---|---|---|
| A | Power switch | Switch used to turn unit power ON / OFF. | | |
| B | LOCK button | Used to lock/unlock front panel operation except LOCK button. To lock the front panel operation, press the LOCK button (the button light is turned on.) To release the lock, press and hold the LOCK button for at least 3 seconds. | | |
| C | ID Select button | Used to select the control device: UFM-30CTL network address and UFM-30FS slot number. | | |
| D | EVENT button | Used for event memory operations. | | |
| E | Menu Display | Used to display menus and make operational settings. A fluorescent character display tube. | | |
| F | Menu Control buttons (F1 to F4) with UNITY buttons | Used to make menu settings. (See Section 5. “Menu Operation.”) Pressing each UNITY button returns the related parameter value to default setting. * The operation differs in some menus. | | |
| G | Arrow buttons | Single arrows: Used to move between parameters in a menu. (When it comes to the last parameter, the light goes off.) | | |
| | | Double arrows: Used to move between menus. (When it comes to the last menu category, the light goes off.) | | |
| H | MENU button | Used to make menu settings. | | |
| I | Status Indicators | VIDEO IN | Lit green | Video signal is present in UFM-30FS. |
| | | | Unlit | Video signal is not present in UFM-30FS. |
| | | AUDIO IN | Lit green | Audio signal is present in UFM-30FS. |
| | | | Unlit | Audio signal is not present in UFM-30FS. |
| | | GENLOCK | Lit green | External reference signal is properly input to UFM-30FS. |
| | | | Unlit | No external reference signal is input to UFM-30FS. |
| | | REMOTE | Lit green | UFM-30FS works in remote control mode. |
| | | | Flashing green | UFM-30FS is not found in the specified slot. |
| | | | Unlit | The connection between UF-NETRU and UFM-30CTL is not established. |

| | | | | |
|---|---|---|---|---|
| I | Status Indicators | FAN ALARM | Lit red | One or more fans in UF-NETRU failed. Power off the unit and consult your FOR-A reseller. |
| | | | Unlit | The cooling fans in UF-NETRU are working properly. |

| IMPORTANT |
|---|
| When the REMOTE indicator blinks, check the connection to UFM-30FS. (See Section 3. System Configuration.) The indicators show the video, audio and other statuses of UFM-30FS. When the connection is not established between UFM-30FS and UF-NETRU, the REMOTE indicator blinks and all other indicators are turned off. |

## 2.2. Rear Panel

Connectors and items located on the rear panel of the UF-NETRU are as shown and described in the figure and text below.




| Item | Name | Description |
|---|---|---|
| A | LAN | Used to connect LAN1 on UFM-30CTL via Ethernet. RJ-45 connector. |
| B | Cooling Fan | Used to air cool unit to prevent overheating. Do not block fan intake with other equipment or objects.<br>If fan failure occurs, the FAN ALARM indicator on the front panel lights up red. |
| C | Ground Terminal | Used to ground unit to protect operators against static electricity and / or electrical shock. |
| D | AC IN | Used for connection to AC power source via supplied accessory cord. (AC 100V-240V 50/60Hz) |

# 3. System Configuration

The UF-NETRU connects with UFM-30CTL via Ethernet and controls UFM-30FS remotely through UFM-30CTL. It is recommended to use the Ethernet LAN only for the system and not to add the system to the existing LAN.
When configuring multiple units of UF-NETRU and UFM-30CTL, change the IP addresses of the second or later UFM-30CTL and UF-NETRU from the factory default setting before connecting to the LAN.

| **IMPORTANT** |
| --- |
| Turn OFF the power of all devices before connection.<br>Do not use the same IP address when configuring multiple units of UF-NETRU and UFM-30CTL. |

## 3.1. IP Address Setting

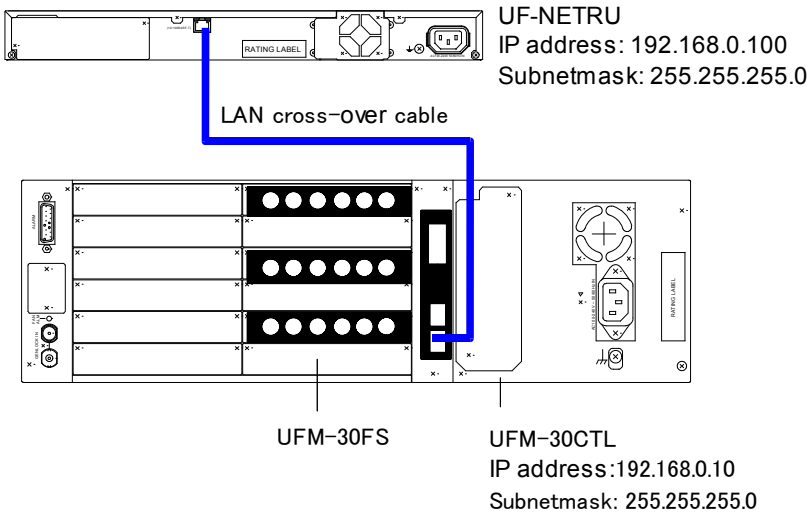
■ **Factory Default Setting**
When directly connecting UFM-30CTL and UF-NETRU via LAN, you can use the factory default network setting as shown in the table below.

| Device | UF-NETRU | UFM-30CTL |
| --- | --- | --- |
| IP address | 192.168.0.100 | 192.168.0.10 |
| Subnetmask | 255.255.255.0 | 255.255.255.0 |

■ **IP Address Setting for UF-NETRU**
See section 8. ”Network Setting” for changing the UF-NETRU network setting.

■ **IP Address Setting for UFM-30CTL**
See the UFM-30CTL operation manual.

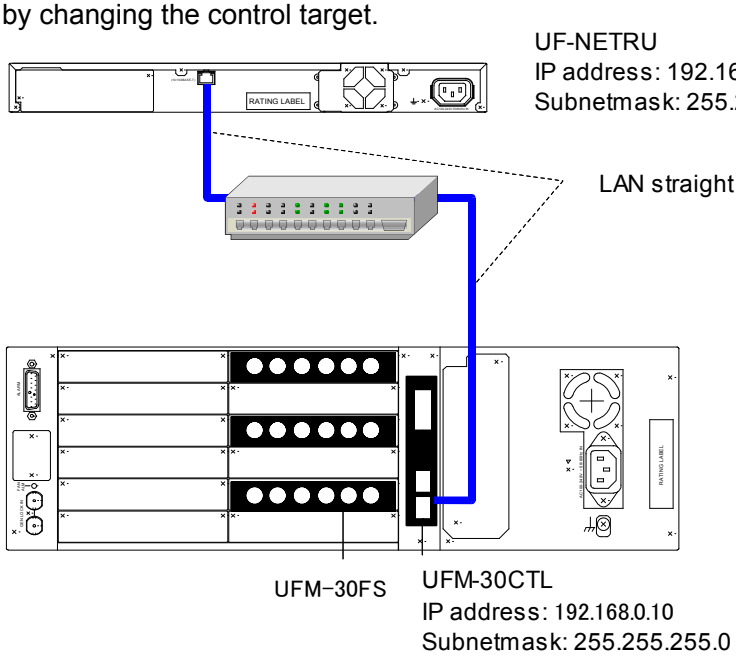
## 3.2. Direct Connection



## 3.3. Connection through Hub

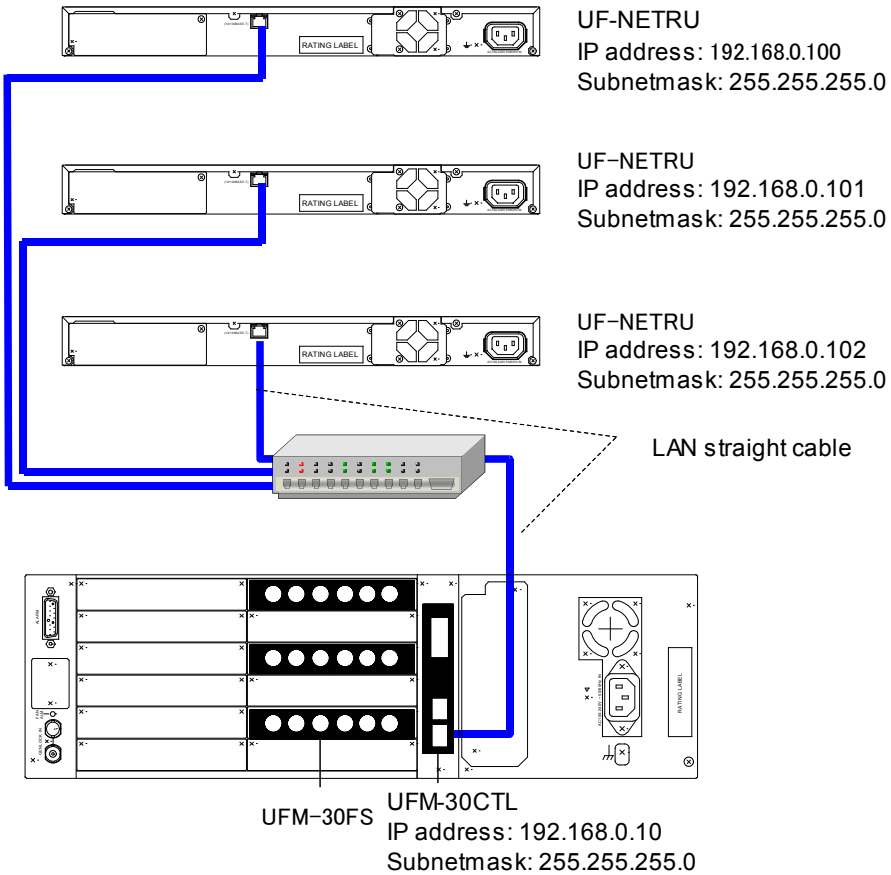
### 3.3.1. Controlling Three UFM-30FS from One UF-NETRU

The connection example below shows that one UF-NETRU unit controls three UFM-30FS modules by changing the control target.




### 3.3.2. Controlling Three UFM-30FS from Three UF-NETRU

The connection example below shows that three units of UF-NETRU respectively control three modules of UFM-30FS installed in the same UF frame with a UFM-30CTL.



# 4. Selecting UFM-30FS

## 4.1. Power ON

(1) Turn on UF-112 and UF-NETRU after all system connections are complete.
(2) The menu display will show the current version of UF-NETRU as shown below.

```
SOFTWARE Ver.          400
DSP Ver.   : 1.0.0.0
Front Ver.: 1.0.0.0
Front Sum  : EB83
```

(3) When the connection to UFM-30FS is established, the menu display will show the connection information as shown below.

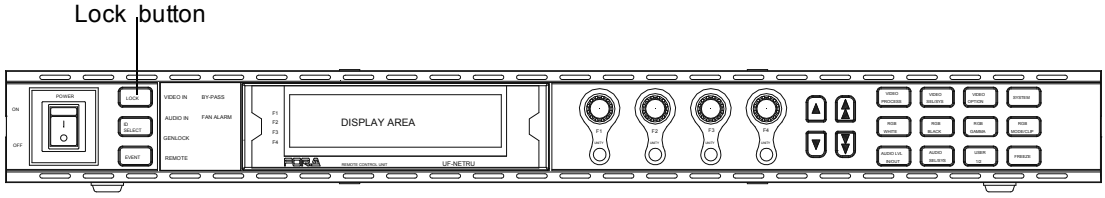
```
CONNECT INFO           312
IP ADDRESS :
192.168.  0.  10
SLOT : 1
MODULE:UFM-30FS
```

If the connection to UFM-30FS is not properly established, the menu display will show “DISCONNECTED” as shown below.

```
CONNECT INFO           312
IP ADDRESS :
192.168.  0.  10
SLOT : 1
DISCONNECTED
```

If the connection is not properly established, check the cable connection and network setting (See section 4.2. ”Connecting to UFM-30FS.”)

(4) Before starting operations, make sure that the front panel controls are not locked (disabled). The **LOCK** button is lit when the front panel is disabled. To enable the panel operation, press and hold down the **LOCK** button for several seconds.




## 4.2. Connecting to UFM-30FS

### 4.2.1. Selecting UFM-30CTL by FRAME Number

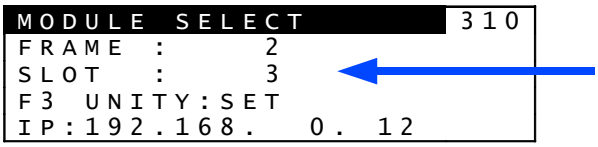
(1) Press twice on the up-single-arrow on the front panel while “CONNECT INFO” (Menu No. 312) is displayed to go to the MODULE SELECT menu (Menu No. 310).

```
MODULE SELECT          310
FRAME  :      2
SLOT   :      1
F3 UNITY:SET
IP:192.168.  0.  12
```

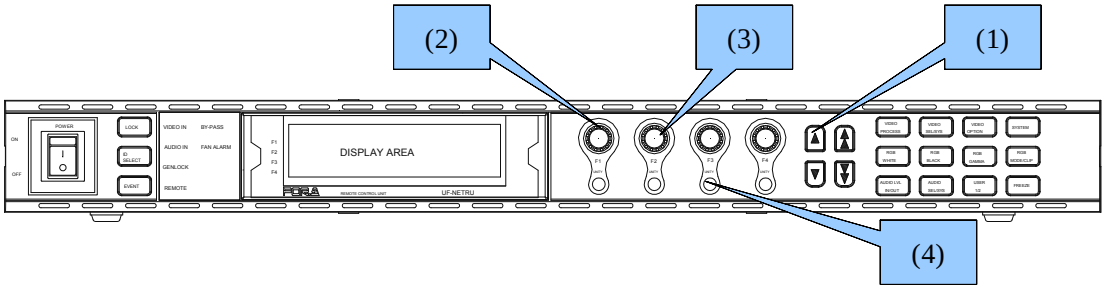
(2) Turn **F1** to set an IP address of UFM-30CTL by specifying the FRAME number. The IP address assigned to the FRAME number is displayed at the bottom of the menu display.

To select a UFM-30CTL by specifying a FRAME number, assign the IP address of the UFM-30CTL to the FRAME number beforehand. See section 8.2.6. ”Assigning an IP address to a Frame Number” for details. IP addresses can be assigned to FRAME number 1 to 100.

(3) Turn **F2** to select the slot number of target UFM-30FS.



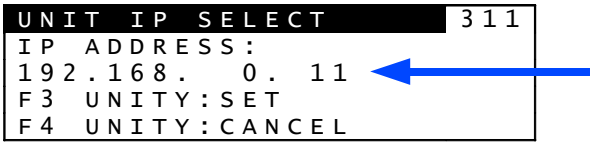

(4) Press **F3 UNITY** to connect to the UFM-30FS.



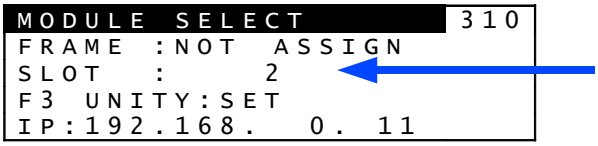

## 4.2.2. Selecting UFM-30CTL by IP Address

You can also select a UFM-30CTL by entering IP address of UFM-30CTL directly.

(1) Press the up-single-arrow on the front panel while “CONNECT INFO” (Menu No. 312) is displayed to go to the UNIT IP SELECT menu (Menu No. 311).



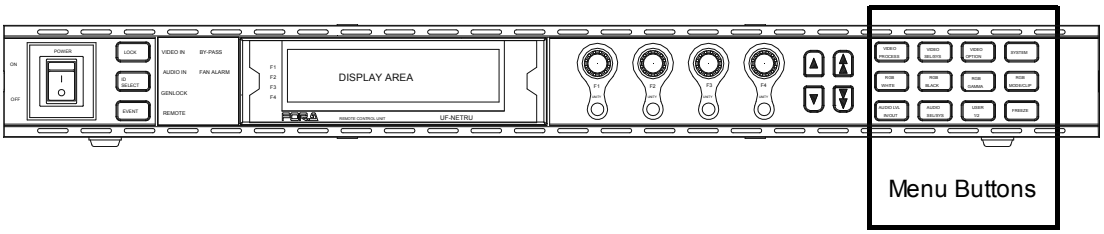

(2) Turn **F1, F2, F3 and F4** to enter the IP address of the target UFM-30CTL.
(3) Press the up-single-arrow to go to the MODULE SELECT menu (Menu No. 310). Turn **F2** to specify the slot number in which the target UFM-30FS is installed.




(4) Turn **F3 UNITY** to connect to the UFM-30FS.

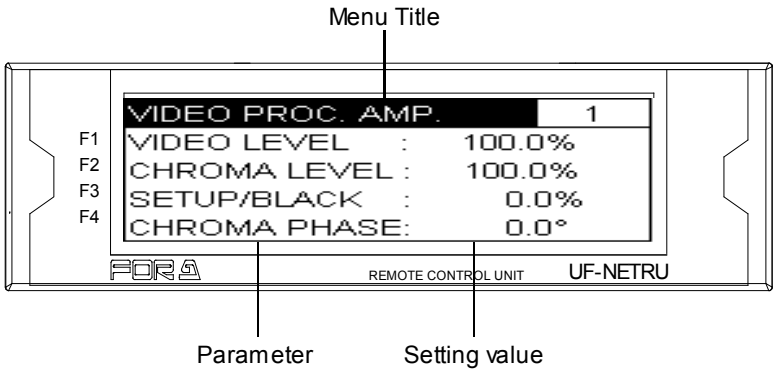
# 5. Menu Operation

This chapter explains how to display menus and set the menu parameters.



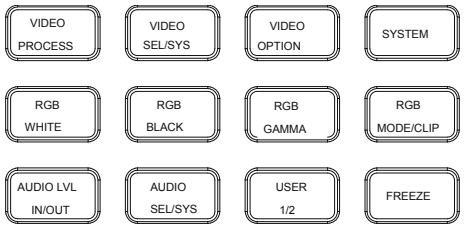

## 5.1. Accessing Menus

Pressing a menu button displays the menu marked on the button on the menu display. Menus are divided in categories. Each menu button allows you to access corresponding one or two categories.
Pressing the menu button once will light up the button green and displays the first menu in the first category of the button. Pressing the button twice will light up the button orange and displays the first menu in the second category. The double-arrow buttons work in the same manner.
In each category, there are one or more menus. See next section "Menu Buttons" for the details on the categories.




To display menus that are not accessible by the menu buttons or the double-arrow buttons in categories, select the category first by a menu button and then select the menu using single-arrow buttons.
When the menu button is pressed, the button lights up, and the menu is displayed on the screen as shown below. In the example below, the VIDEO PROCESS button is pressed, and the VIDEO PROC AMP menu is displayed.

## 5.2. Menu Buttons




| Menu Button | Category 1 (Lit green) | Category 2 (Lit orange) |
|---|---|---|
| VIDEO PROCESS | VIDEO PROC AMP | - |
| RGB WHITE | - | - |
| RGB BLACK | - | - |
| RGB GAMMA | - | - |
| RGB MODE/ CLIP | - | VIDEO CLIP |
| VIDEO SEL/SYS | SYSTEM SETTING | VIDEO SYSTEM PHS<br>SDI ANCILLARY<br>POSITION/DELAY<br>FREEZE<br>VIDEO FUNCTION |
| VIDEO OPTION | - | - |
| SYSTEM | TEST SIGNAL<br>EVENT LOAD CTL<br>FRONT PANEL SET<br>NETRU INFO | VIDEO STATUS<br>INPUT to REF PHS<br>VIDEO I/O DELAY<br>SDI AUDIO STATUS<br>NETWORK SETTING |
| AUDIO LVL IN/OUT | - | AUDIO OUT GAIN |
| AUDIO SEL/SYS | AUDIO OUT SEL | AUDIO OUT DELAY<br>STEREO MODE<br>OUTPUT POLARITY<br>AUDIO FADE/MUTE<br>SDI AUDIO CLK |
| USER 1/2 | - | - |

## 5.3. Arrow Buttons

■ **Double-arrow buttons (up and down)**

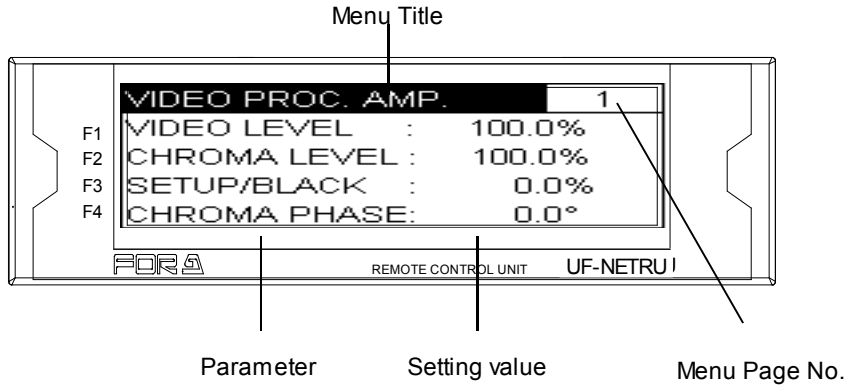
The double-arrow buttons are used to select menu categories (the same as menu buttons). Holding down the double-arrow button displays the menu categories one after another. When it comes to the last menu category, the light goes off.

■ **Single-arrow buttons (up and down)**

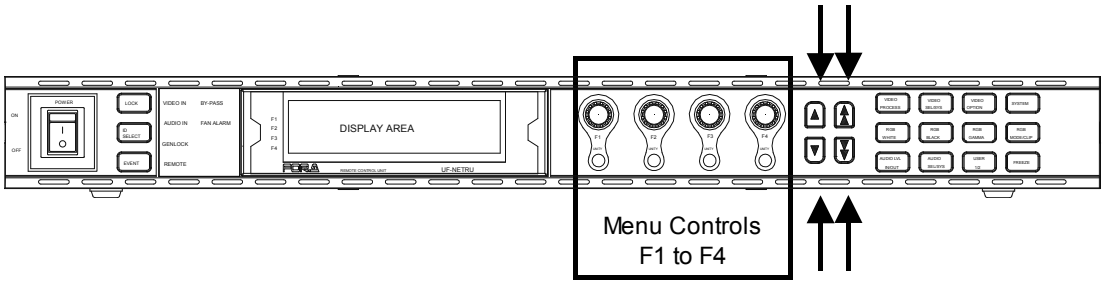
The single-arrow buttons are used to select a menu within categories. Holding down the single-arrow button displays the menus in the category one after another if there are more than one menu. When it comes to the last menu, the light goes off.

## 5.4. Changing Parameter Values

Once the desired menu is displayed, use the controls (**F1**-**F4**) to change the parameter values.



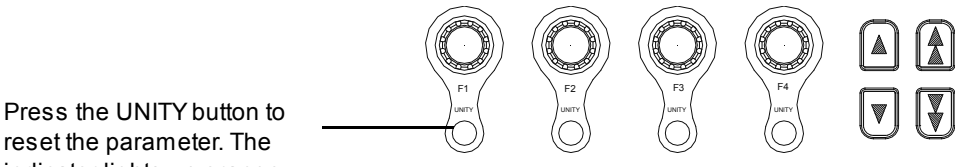

For example, if you wish to change the VIDEO LEVEL parameter value (see the figure above), turn **F1** clockwise or counterclockwise (see the figure below). In the same way, turn **F2** to change the CHROMA LEVEL parameter value, **F3** to change the BLACK LEVEL parameter value, and **F4** to change the CHROMA PHASE parameter value.




If there are more than five parameters in the menu, press the single down arrow button on the front panel to scroll through. To return to the top of the menu, press the single up arrow button. If the menu consists of multiple pages, use the double arrow buttons on the front panel to move between pages.

## 5.5. Factory Default Setting

Press the UNITY button beneath each control (**F1**-**F4**) to reset the parameter to the default value. The indicator lights up orange. The indicator also lights up when the parameter is reset using the control. The UNITY buttons are also used to confirm the changes made for certain parameters. See each section for details.



# 6. Menu Description

## 6.1. VIDEO PROC AMP

```
   VIDEO PROC AMP      1
VIDEO LEVEL  : 100.0%
CHROMA LEVEL: 100.0%
SETUP/BLACK  :   0.0%
CHROMA PHASE:   0.0°
```

Menu Button

VIDEO
PROCESS

| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| VIDEO LEVEL | 100.0% | 0.0 to 200.0% (0.1%) | Allows you to adjust the video level. |
| CHROMA LEVEL | 100.0% | 0.0 to 200.0% (0.1%) | Allows you to adjust the chroma level. |
| SETUP/BLACK | 0.0% | -7.0 to 20.0% (0.1%) | Allows you to adjust the black level. |
| CHROMA PHASE | 0.0° | -179.9 to 180.0° (0.1°) | Allows you to adjust the chroma phase. |

## 6.2. SYSTEM SETTING

```
SYSTEM SETTING      20
INPUT SEL  :SDI 1
SYSTEM FMT:AUTO DET
SYNC MODE  :FRAME
```

Menu Button

VIDEO
SEL/SYS

| Item | Default | Setting Range | Description |
|---|---|---|---|
| INPUT SEL | SDI 1 | SDI 1<br>SDI 2 | Allows you to select which channel to be the primary channel. |
| SYSTEM FMT | AUTO DET | AUTO DET<br>525/60<br>625/50<br>1080/59i<br>1080/50i<br>720/59p<br>720/50p | Allows you to select a format to be used for the system. **AUTO DET** or a specific format can be selected. |
| SYNC MODE | FRAME | FRAME<br>LINE(*1)<br>INPUT(*2) | Allows you to select a sync mode.<br>**FRAME (Frame lock)**: Locks up to external genlock signal (both horizontal and vertical). Effective whether video input signal and external genlock signal are synchronous or asynchronous.<br>**LINE (Line lock)**: Locks up to external genlock signal (horizontal). Synchronizes video in ±1/2 and outputs video with 1H delay. Effective only when video input signal and external genlock signal are synchronous. Can be used as 1H AVDL(automatic video delay line).<br>**Input (Input lock)**: Locks up to a video input signal. The I/O delay can be adjusted by using SYSTEM PHASE and FRAME DELAY settings, however the minimum delay is 400clk at 74MHz (HD) or 27MHz(SD) or all video formats.<br>Does not use external genlock signal. |

(*1) If **SYNC MODE** is set to **LINE**, **V POS** and **FRAME DELAY** in 6.5 POSITION/DELAY (Menu No.23) and items in 6.6. FREEZE (Menu No 24) are disabled.
(*2) Set **V PHASE** (Menu No. 21) to +1 when the phase difference between input video and genlock signals are within ±1/2H. Set **V PHASE** to 0 when the difference is within -1H±1/2H. Also set it to -1 when the difference is within -2H±1/2H.

If **SYNC MODE** is set to **FRAME** or **LINE** and the genlock signal cannot be locked up to the system format, the sytem employs free running. The free running is also applied if **SYNC MODE** is set to **INPUT** and no video input is present.

## 6.3. VIDEO SYSTEM PHS

```
VIDEO SYSTEM PHS      21
H PHASE:        0CLOCK
V PHASE:        0LINE
```

Menu Button

VIDEO
SEL/SYS

| Item | Default | Setting Range | Description |
|---|---|---|---|
| H PHASE | 0CLOCK | (*1) | Allows you to adjust video phase.<br>If **Frame Sync** or **Line Sync** is selected in Sync Mode (Menu No. 20), align with genlock signal.<br>If **Input Lock** is selected, align with videol input signal.<br>The settings are adjusted in clocks and lines of the system format, instead of the genlock signal. For example, if 1080/59.94i video is locked to B.B., the system phase settings are adjusted in clocks and lines of the 1080/59.94i format. The setting ranges are as shown below.<br>-1100 to 0 to +1100 clk (horizontal)<br>-563 to 0 to +563 Line (vertical) |
| V PHASE | 0LINE | (*1) | |

(*1) The setting range differs depending on the format. See the table “Video Phase Setting Range” on page 12 in the UFM-30FS Operation Manual for details.

## 6.4. SDI ANCILLARY

```
SDI ANCILLARY         22
SDI HANC:OVERWRITE
SDI VANC:THROUGH
```

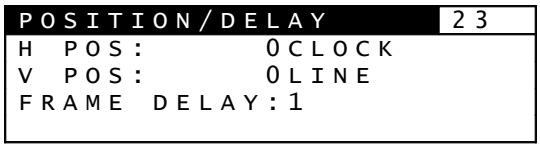
Menu Button

VIDEO
SEL/SYS

| Item | Default | Setting range (Steps) | Description |
|---|---|---|---|
| SDI HANC (*1) | OVERWRITE | DELETE<br>OVERWRITE<br>THROUGH | **DELETE**: Deletes all ancillary data. Audio data packets will be processed according to the SDI OUTPUT ENABLE settings.<br>**OVERWRITE**: Overwrites audio data packets. Other packets will be passed through.<br>**THROUGH:** Passes through ancillary data without processing. SDI OUTPUT ENABLE settings are ineffective. |
| SDI VANC (*2) | THROUGH | DELETE<br>THROUGH | |

(*1) TRS(HD/SD), line numbers, CRC(HD) and EDH(SD) are all overwritten regardless of this setting.
(*2) All data are masked in the horizontal sync periods regardless of this setting.

## 6.5. POSITION/DELAY




Menu Button

VIDEO

SEL/SYS

| Item | Default | Setting range (Steps) | Description |
|---|---|---|---|
| H POS | 0CLOCK | (*1) | Allows you to adjust horizontal position of output video. |
| V POS | 0LINE | (*1)(*2) | Allows you to adjust vertical position of output video. |
| FRAME DELAY | 1 | OFF<br>1 to 10FRAME<br>(1FRAME)(*2) | Allows you to adjust the amount of frame delay. |

(*1) The setting range differs depending on the format. See the table “Video Phase Setting Range” on page 12 in the UFM-30FS Operation Manual for details.
(*2) If **SYNC MODE** in 6.2. SYSTEM SETTING (Menu No. 20) is set to **LINE**, **V POS** and **FRAME DELAY** are disabled.

## 6.6. FREEZE


Menu Button

VIDEO

SEL/SYS

| Item | Default | Setting Range | Description |
|---|---|---|---|
| ON/OFF | OFF | OFF,<br>ON | Allows you to manually freeze a frame or a field. (*1) |
| FIELD SELECT | FRAME | FRAME,<br>ODD,<br>EVEN | **FRAME**: Enables frame freeze if Video Freeze is On.<br>**ODD**: Enables field freeze at odd field if Video Freeze is On.<br>**EVEN**: Enables field freeze at even field if Video Freeze is On.<br>(*1) |

(*1) If **SYNC MODE** in 6.2. SYSTEM SETTING is set to **LINE**, **FIELD SELECT** is disabled. Also, **ON/OFF** is set to **OFF**.

## 6.7. VIDEO FUNCTION


Menu Button

VIDEO

SEL/SYS

| Item | Default | Setting Range | Description |
|---|---|---|---|
| CHANGE OVER | ON | ON,<br>OFF | Automatically replaces the input if the video loss occurs in the primary channel. (See the table in the next page.) (*1) |
| VIDEO LOSS | BACKCOL | BACKCOL,<br>AUTO FRZ (*2),<br>COLORBAR,<br>DISABLE | Allows you to specify the action to be taken when video input is lost. |

(*1) The setting value of **INPUT SEL** (Menu. No20) is automatically changed if the **CHANGE OVER** is performed. The change will not be returned after the video loss is recovered. In this case, manually set the I**NPUT SEL** again.
(*2) To recover the images frozen by **AUTO FRZ,** input the correct signal or set **VIDEO LOSS** to other than **AUTO FREEZE**. If **SYNC MODE** is set to **LINE** (Menu No., Auto freeze does not work and the **BACK COLOR** is displayed when the video loss occurs, although **VIDEO LOSS** is set to **AUTO FRZ**.

**INPUT SEL**, **CHANGE OVER**, **VIDEO LOSS** settings and Output Video

| INPUT SEL Setting | SDI IN1 (SDI IN2) | CHANGE OVER Setting | SDI IN2 (SDI IN1) | VIDEO LOSS Setting | Output Video |
|---|---|---|---|---|---|
| SDI IN1 (SDI IN2) | Present | - | - | - | SDI IN1 video (SDI IN2 video) |
| | None | OFF | - | BACKCOL<br>AUTO FRZ<br>COLOR BAR<br>DISABLE | Background color (Menu No. 27)<br>Frozen video (last saved image)<br>SMPTE color bar<br>No video |
| | None | ON | Present | - | SDI IN2 video (SDI IN1 video) |
| | None | ON | None | BACKCOL<br>AUTO FRZ<br>COLOR BAR<br>DISABLE | Background color (Menu No. 27)<br>Frozen video (last saved image)<br>SMPTE color bar<br>No video |

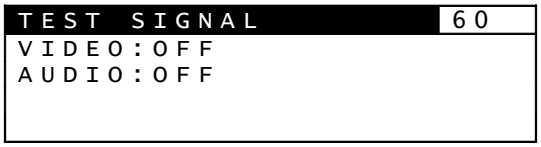

Menu Button

VIDEO

SEL/SYS

| Item | Default | Setting Range | Description |
|---|---|---|---|
| BACK COL | BLACK | BLACK,<br>GRAY,<br>BLUE | Allows you to select a background color displayed if video input is lost when VIDEO LOSS (Menu No.25) is set to BACK COL. |

# 6.8. TEST SIGNAL




Menu Button

SYSTEM

| Item | Default | Setting Range | Description |
|---|---|---|---|
| VIDEO | OFF | OFF,<br>FULL,<br>SMPTE,<br>RAMP | Allows you to output a test signal. Test signals will appear in full screen regardless of **Video** menu settings. |
| AUDIO | OFF | OFF,<br>500Hz,<br>1kHz | Allows you to output a test signal. An audio signal will be output to all output channels regardless of **AUDIO** menus, **SDI HANC** and **SDI VANC** settings (Menu No.22). |

## 6.9. EVENT LOAD CTL

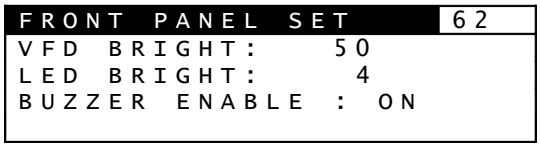

Menu Button

SYSTEM

| Item | Default | Setting Range | Description |
|---|---|---|---|
| START UP (*1) | LAST SET | LAST SET, VID FMT, DEFAULT, EVENT1 to 50 | Allows you to select an event to load when booted.<br>**LAST SET:** Loads the last settings before booting.<br>**VID FMT**: Detects the last video input format before booting and loads the settings specially defined for the video format.<br>**DEFAULT**: Loads the default settings.<br>**EVENT 1 to 50**: Loads the settings saved to event 1 to 50. |
| AUTO (*1) | DISABLE | DISABLE, ENABLE | **ENABLE**: Automatically loads the settings specially defined for the video format. |

(*1) **AUTO** setting will have a priority over **START UP** setting, if UFM-30FS is rebooted while **AUTO** is set to **ENABLE**. Also **START UP / EVENT LOAD /EVENT SAVE** setting cannot be changed if **AUTO** is set to **Enable**.

## 6.10.FRONT PANEL SET (UF-NETRU)

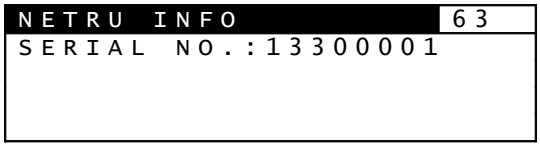



Menu Button

SYSTEM

| Item | Default | Setting Range | Description |
|---|---|---|---|
| VFD BRIGHT | 50 | 10 to 50 | Sets the brightness of UF-NETRU display.<br>**10** (Dark) to **50** (Bright) |
| LED BRIGHT | 4 | 1 to 7 | Sets the brightness of lamps on the UF-NETRU front panel.<br>**1** (Dark) to **7** (Bright) |
| BUZZER ENABLE | ON | OFF, ON | Sets buzzer On/Off for UF-NETRU front panel operation. |

## 6.11.NETRU INFO (UF-NETRU)




Menu Button

SYSTEM

| Item | Description |
|---|---|
| SERIAL NO. | Displays the product serial number of UF-NETRU. |

## 6.12.VIDEO STATUS

```
VIDEO STATUS1          70
OPERAT STS:LOSS
REFERENCE:625/50
```

```
VIDEO STATUS2          71
SDI INPUT:SDI IN1
SDI IN1:625/50
SDI IN2:LOSS
```

Menu Button

SYSTEM

| Item | Description |
|---|---|
| OPERAT STS | Displays the sync status of input video.<br>Loss: Video input is not present.<br>Lock: Input video is locked to the genlock signal.<br>Unlock: Input video is not locked to the genlock signal. |
| REFERENCE | Displays the TV standard of genlock signal. |
| SDI INPUT | Displays the selected video input. |
| SDI IN1 | Displays the TV standard of signal input to SDI IN1. |
| SDI IN2 | Displays the TV standard of signal input to SDI IN2. |

## 6.13.INPUT to REF PHS

```
INPUT to REF PHS       72
STATUS:      LOCK
LINE   :          0LINE
PIXEL  :          0CLOCK
CLOCK  :     0.000µsec
```

Menu Button

SYSTEM

| Item | Display | Description |
|---|---|---|
| STATUS | (LOCK/UNLOCK) | Displays the sync status between SDI input and genlock signal. |
| LINE | (LINE) | Displays the difference of V phase between SDI input and genlock signal. |
| PIXEL | (CLOCK) | Displays the difference of H phase between SDI input and genlock signal. |
| CLOCK | (µsec/msec) | Displays the phase difference between SDI input and genlock signal in µsec or msec. |

## 6.14.VIDEO I/O DELAY

```
VIDEO I/O DELAY1      73
STATUS:   LOCK
```

```
VIDEO I/O DELAY2      74
FRAME:              0FRAME
LINE :              0LINE
PIXEL:              0CLOCK
CLOCK:        0.000μsec
```

Menu Button

SYSTEM

| Item | Display | Description |
|---|---|---|
| STATUS | (LOCK/UNLOCK) | **LOCK** sign is displayed when the SDI input is locked to the genlock signal. |
| FRAME | (FRAME) | Displays video I/O delay of frames when locked. |
| LINE | (LINE) | Displays video I/O delay of lines when locked. |
| PIXEL | (CLOCK) | Displays video I/O delay of pixels when locked. |
| CLOCK | (μsec/msec) | Displays total video I/O delay in time when locked. |

## 6.15.SDI AUDIO STATUS

```
SDI AUDIO STATUS1     75
IN CH 1/2 :LOSS
IN CH 3/4 :LOSS
IN CH 5/6 :LOSS
IN CH 7/8 :LOSS
```

```
SDI AUDIO STATUS2     76
IN CH 9/10:LOSS
IN CH11/12:LOSS
IN CH13/14:LOSS
IN CH15/16:LOSS
```

Menu Button

SYSTEM

| Item | Description |
|---|---|
| IN CH1/2 to 15/16 | Displays the status of SDI embedded audio.<br><br>**LOSS**: No audio signal present.<br>**PCM, PCM(A)**: Normal audio present<br>**SILENCE, SILNC(A)**: Normal audio present but silent. (*1)<br>**NON-PCM, NOPCM(A)**: Data signal present<br>**UNKNOWN**: Unknown format |

(*1) Displayed when the level of L or R channel is -60dB or less.
"(A)" represents the asynchronous audio signal.

# 6.16.NETWORK SETTING (UF-NETRU)

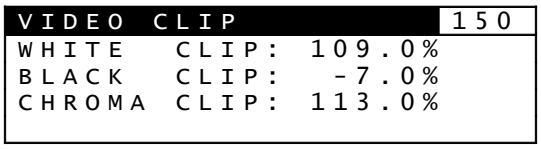

Menu Button

SYSTEM

This menu sets the UF-NETRU network. Turn **F1** to select an item for setting, then press **F2 UNITY** to confirm the change. The menu is changed to setting screen. (Note that IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY are not displayed when DHCP client is enabled.)

| Item | Default | Setting Range | Description |
|---|---|---|---|
| DHCP | DISABLE | DISABLE, ENABLE | Selects whether the DHCP client function is enabled or disabled. |
| IP ADDRESS | 192.168.0.100 | 0.0.0.0 to 255.255.255.255 | Sets the fixed IP address of UF-NETRU. |
| SUBNET MASK | 255.255.255.0 | 0.0.0.0 to 255.255.255.255 | Sets the subnet mask of UF-NETRU. |
| DEFAULT GATEWAY | 0.0.0.0 | 0.0.0.0 to 255.255.255.255 | Sets the default gateway of UF-NETRU. |
| CTRL TCP PORT | 50000 | 1 to 65535 | Sets the TCP port for connecting to UFM-30CTL. |
| CONFIG & RESTART | - | - | Saves all settings and restarts the unit. |

# 6.17.VIDEO CLIP




Menu Button

RGB
MODE/CLIP

| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| WHITE CLIP | 109.0% | 50.0 to 109.0% (0.1%) | Allows you to specify the highest value of Y signal for clipping. |
| BLACK CLIP | -7.0% | -7.0 to 50.0% (0.1%) | Allows you to specify the lowest value of Y signal for clipping. |
| CHROMA CLIP | 113.0% | 50.0 to 113.0% (0.1%) | Allows you to specify the highest and the lowest value of PbPr signal for clipping. |

# 6.18.AUDIO OUT GAIN

```
AUDIO OUT GAIN1        160
GAIN UNIT:     0.0dB
```

```
AUDIO OUT GAIN2        161
OFFSET CH 1:  0.0dB
OFFSET CH 2:  0.0dB
OFFSET CH 3:  0.0dB
OFFSET CH 4:  0.0dB
```

```
AUDIO OUT GAIN3        162
OFFSET CH 5:  0.0dB
OFFSET CH 6:  0.0dB
OFFSET CH 7:  0.0dB
OFFSET CH 8:  0.0dB
```

```
AUDIO OUT GAIN4        163
OFFSET CH 9:  0.0dB
OFFSET CH10:  0.0dB
OFFSET CH11:  0.0dB
OFFSET CH12:  0.0dB
```

```
AUDIO OUT GAIN5        164
OFFSET CH13:  0.0dB
OFFSET CH14:  0.0dB
OFFSET CH15:  0.0dB
OFFSET CH16:  0.0dB
```

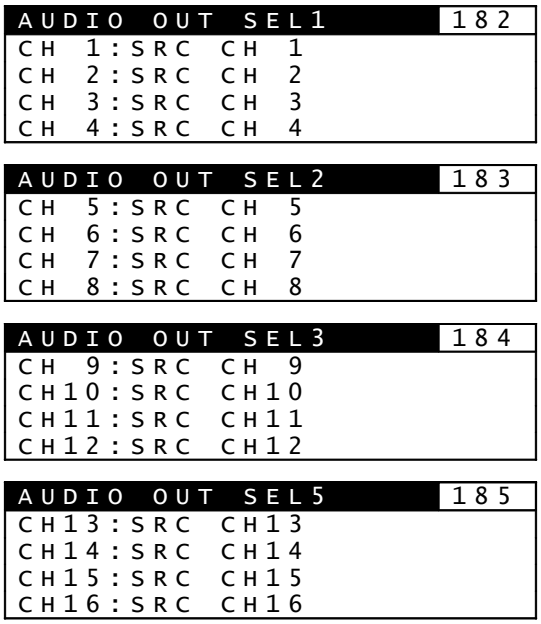
Menu Button

AUDIO LVL
IN/OUT

| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| GAIN UNIT | 0.0 dB | -20.0 to +20.0 dB (0.1 dB) | Allows you to set gain that is common for all output audios. |
| OFFSET CH1 to OFFSET CH16 | 0.0 dB | -20.0 to +20.0 dB (0.1 dB) | Allows you to finely adjust the gain that is set for all output audios respectively for individual channel. |

Adjust gain at Audio Out Gain Unit first. And then adjust gain for individual channel (Audio Out Gain Offset ch1~ch16) if needed.
Changing the value for Audio Out Gain Unit changes the values of every channel while maintaining the differences between the channels. If the total value exceeds the range of -20.0 dB to +20.0dB, it is automatically set to the minimum or maximum allowed value.
Non-PCM audios are automatically bypassed.

# 6.19.AUDIO OUT SEL




Menu Button

AUDIO
SEL/SYS

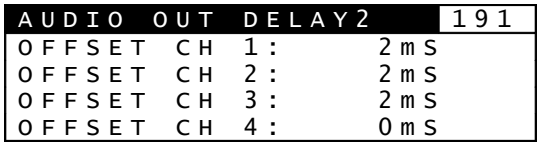
| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| CH 1 | SRC CH 1 | SRC CH1 to SRC CH16, SILENCE, TONE | Allows you to select an audio signal for each audio output channel.<br><br>**SRC Ch1-Ch16**:<br>Selects a signal from the sampling rate converter circuit.<br><br>**Silence**:<br>Outputs mute signal.<br><br>**Tone**:<br>Outputs an internally generated signal. |
| CH 2 | SRC CH 2 | | |
| CH 3 | SRC CH 3 | | |
| CH 4 | SRC CH 4 | | |
| CH 5 | SRC CH 5 | | |
| CH 6 | SRC CH 6 | | |
| CH 7 | SRC CH 7 | | |
| CH 8 | SRC CH 8 | | |
| CH 9 | SRC CH 9 | | |
| CH10 | SRC CH10 | | |
| CH11 | SRC CH11 | | |
| CH12 | SRC CH12 | | |
| CH13 | SRC CH13 | | |
| CH14 | SRC CH14 | | |
| CH15 | SRC CH15 | | |
| CH16 | SRC CH16 | | |

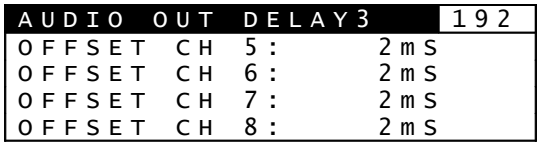
If input audio is non-PCM, any selected two audio channels that are not proper for a L/R stereo pair will be automatically changed to a proper stereo pair that includes the channel selected for the output of smaller odd number such as ch1.

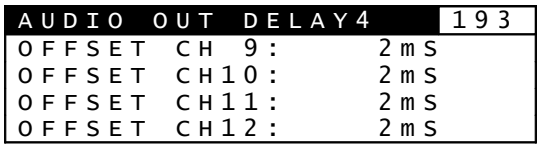
**Example 1**: If SRC7 is selected for ch1 and SRC8 is selected for ch2
Selected channels make a proper L/R stereo pair. Therefore it will be set as selected.
**Example 2**: If SRC7 is selected for ch1 and SRC10 is selected for ch2
Selected channels do not make a proper L/R stereo pair. The channel which is selected for ch1 has a priority. Therefore it will be set to a stereo pair that includes SRC7; i.e. SRC7 for ch1 and SRC8 for ch2.
**Example 3**: If SRC6 is selected for ch1 and SRC10 is selected for ch2

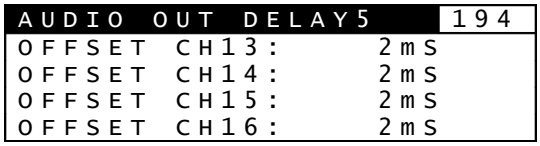
Selected channels do not make a proper L/R stereo pair. The channel which is selected for ch1 has a priority. Therefore it will be set to a stereo pair that includes SRC5; i.e. SRC5 for ch1 and SRC6 for ch2.

# 6.20.AUDIO OUT DELAY

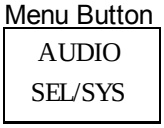




Menu Button




| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| DELAY UNIT | 2ms | 2 to +1000ms (1ms) | Allows you to set delay that is common for all output audios. |
| OFFSET CH1 to OFFSET CH16 | 2ms | 2 to +1000ms (1ms) | Allows you to finely adjust the delay that is set for all output audios respectively for individual channel. |

For example, the total delay of CH1 is DELAY UNIT plus OFFSET CH1. If the total value exceeds the range of 2 to 1,000msec, it is automatically set to the minimum or maximum allowed value.

If different values are set for a L/R stereo pair (such as ch1 and ch2) of non-PCM audios, the value of R channel will be automatically changed to match that of L channel.

The minimum value is 2 msec including internal processing delay.
To maintain lip sync see the value of **Video I/O Delay**.

Additional 4ms delay will be required if **Fade In / Fade Out** of **Audio Fade** Setting is set to F/F.

# 6.21.STEREO MODE

```
STEREO MODE1                195
CH 1/2 :STEREO
CH 3/4 :STEREO
CH 5/6 :STEREO
CH 7/8 :STEREO
```

```
STEREO MODE2                196
CH 9/10:STEREO
CH11/12:STEREO
CH13/14:STEREO
CH15/16:STEREO
```

Menu Button

AUDIO

SEL/SYS

| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| CH1/2 to CH15/16 | STEREO | STEREO, SWAP, MONO-L, MONO-R, MONO-SUM | Allows you to select an output mode from stereo modes and mono modes for each stereo pair individually.<br><br>**Stereo**: Outputs the L audio input signal to L and R audio input signal to R.<br>**Swap**: Outputs the L audio input signal to R and R audio input signal to L.<br>**Mono-L**: Outputs the L audio input signal to both L and R.<br>**Mono-R**: Outputs the R audio input signal to both L and R.<br>**Mono-Sum**: Outputs a half of the sum of L and R audio input signals. |

Non-PCM audios are automatically output without processing.

# 6.22.OUTPUT POLARITY

```
OUTPUT POLARITY1            197
CH 1: NORMAL
CH 2: NORMAL
CH 3: NORMAL
CH 4: NORMAL
```

```
OUTPUT POLARITY2            198
CH 5: NORMAL
CH 6: NORMAL
CH 7: NORMAL
CH 8: NORMAL
```

```
OUTPUT POLARITY3            199
CH 9: NORMAL
CH10: NORMAL
CH11: NORMAL
CH12: NORMAL
```

```
OUTPUT POLARITY4            200
CH13: NORMAL
CH14: NORMAL
CH15: NORMAL
CH16: NORMAL
```

Menu Button

AUDIO

SEL/SYS

| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| CH1 to 16 | NORMAL | NORMAL, INVERT | Allows you to set the audio output polarity for each channel individually. |

Non-PCM audios are automatically output without processing.

# 6.23.AUDIO FADE/MUTE

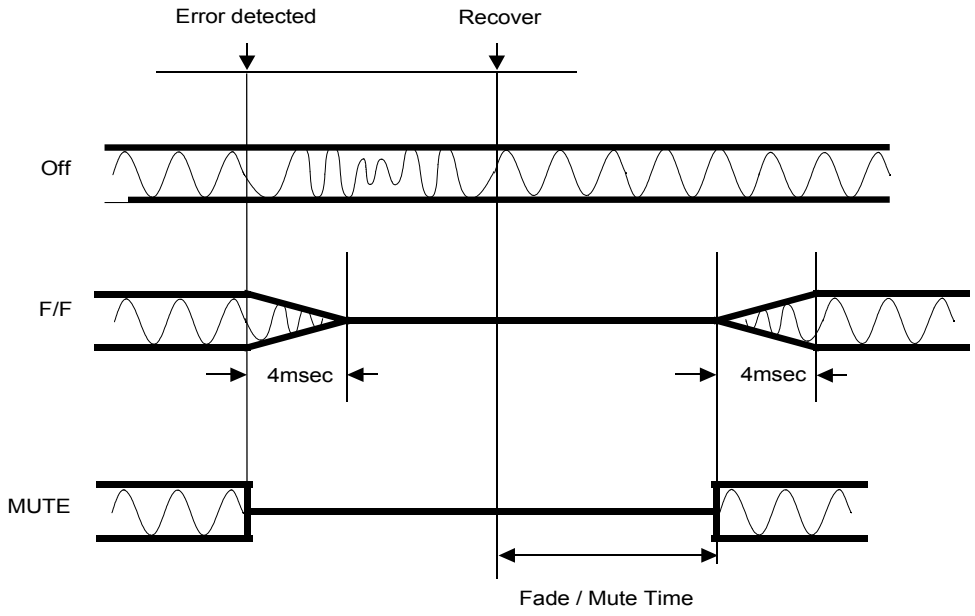
```
AUDIO FADE/MUTE          201
FADE IN/OUT:OFF
FADE/MUTE TIME:          1ms
SDI MUTE    :OFF
```

Menu Button

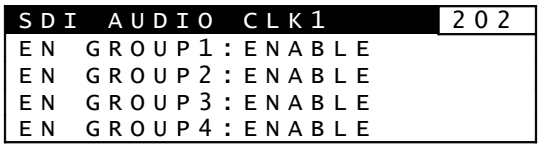
AUDIO
SEL/SYS

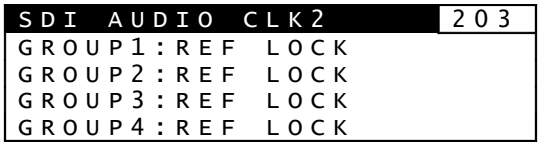
| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| FADE IN/OUT | OFF | OFF,<br>MUTE (*1),<br>F/F (*1)(*2) | UFM-30FS mutes when it detects an error on input audio. This menu allows you to select whether to apply fade effect for the muting.<br><br>**Off**: Outputs audios without processing.<br>**Mute**: Mutes when it detects an error.<br>**F/F**: Applies Fade in and Fade out whenever it detects an error. |
| FADE/MUTE TIME | 1ms | 1 to 100ms (1ms) | Allows you to set the mute duration. |
| SDI MUTE | OFF | OFF,ON | Allows you to mute all SDI audios at once. |

(1) If Mute or F/F is selected, 4 ms is added to the internal process delay.
(2) The fade duration is fixed to approximately 4 msec.



# 6.24.SDI AUDIO CLK




Menu Button

AUDIO
SEL/SYS

| Item | Default | Setting Range (Step) | Description |
|---|---|---|---|
| EN GROUP1 to EN GROUP4 | ENABLE | DISABLE, ENABLE | Allows you to disable or enable embedding SDI audios for each group. (*1) SD-SDI audios cannot be embedded to Group4 regardless of the setting. |
| GROUP1 | REF LOCK | REF LOCK, CH1 to 4 | Allows you to select a signal to be used as audio clock for the SDI audio group.Normally, select **REF LOCK**.For asynchronous output of a group which includes Non-PCM audio, select the Non-PCM channel. SD-SDI audios are always processed as reference lock regardless of the menu selection. |
| GROUP2 | | REF LOCK, CH5 to 8 | |
| GROUP3 | | REF LOCK, CH9 to 12 | |
| GROUP4 | | REF LOCK, CH13 to 16 | |

(1*) If **SDI Ancillary Mode** (Menu No. 22) is set to **Through**, **ENABLE** settings at **EN GROUP1 to 4** are ineffective and all ancillary data is passed through without being processed.
See ”SDI Audio Group” in the UFM-30FS operation manual for details.

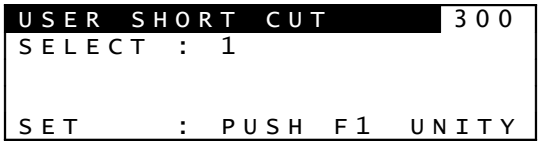
# 6.25.USER 1/2

**USER1/2** is an assignable button, to which two frequently used menus can be freely assigned. Pressing **USER1/2** once opens the menu assigned to USER1 and the button lights up green. Pressing the button again opens the menu assigned to USER2 and the button lights up orange. The SOFTWARE VERSION menu (MENU No. 400) is assigned to USER1 at the factory default setting. (See section 4.1. ”POWER ON”.)

## 6.25.1.Assigning Function to USER 1/2

The procedure below shows how to assign menus to **USER1/2**.

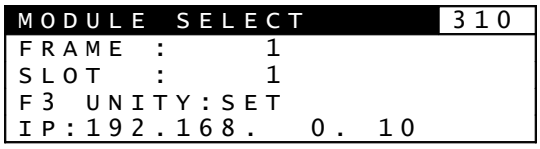
1) Open the menu that you want to assign to the button.
2) Press and hold down **USER 1/2** for a while. The button lights up red and the USER SHORT CUT menu appears.
3) Turn **F1** to select 1 if you want to assign the menu to USER1 (The menu opens when the button changes to green.) or select 2 if you want to assign the menu to USER2 (The menu opens when the button changes to orange.).
4) Turn **F1 UNITY** to complete the assignment. To cancel the setting, press **USER1/2.**




Menu Button

USER1/2

## 6.26.MODULE SELECT



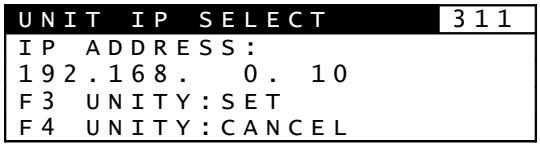

Menu Button

ID SELECT

| Item | Default | Setting Range | Description |
|---|---|---|---|
| FRAME | 1 | 1 to 100 | Selects the connection target by specifying a frame number. (See section 8.2.6. ”Assigning an IP address to a Frame Number.”) |
| SLOT | 1 | 1 to 12 | Specifies the slot number where the target module is installed. |
| IP | - | - | Displays the IP address assigned to the selected frame number. |

When you change settings in the MODULE SELECT menu, press **F3 UNITY** to confirm the change. See section 4.2. ”Connecting to UFM-30FS” for details.

## 6.27.UNIT IP SELECT

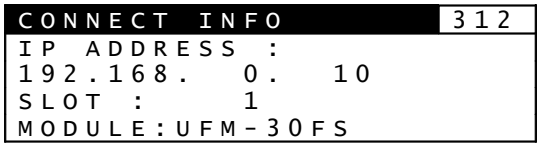



Menu Button

ID SELECT

| Item | Default | Setting Range | Description |
|---|---|---|---|
| IP ADDRESS | 192.168.0.10 | 0.0.0.0.0 to 255.255.255.255 | Specifies the connection target with IP address by turning **F1** to **F4**. To confirm the setting, press **F3 UNITY**. If the entered address is correct, the connection will be made. |

## 6.28.CONNECT INFO

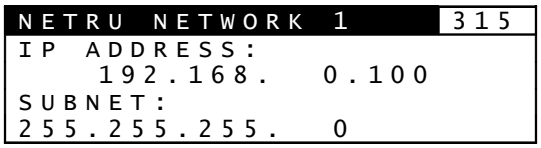


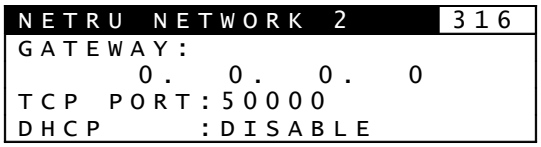

Menu Button

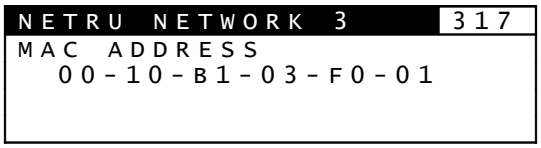
ID SELECT

| Item | Display |
|---|---|
| IP ADDRESS | Displays the IP address of the connected device. |
| SLOT | Displays the slot number of the module the NETRU is controlling. |
| MODULE | Displays the name of the module. ”DISCONNECTED” is displayed if the connection with UFM-30CTL is not established. ”NOT SUPPORTED” is displayed if the UF-NETRU cannot monitor or control the module. |

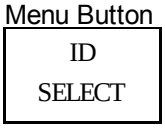
# 6.29.NETRU NETWORK




Menu Button



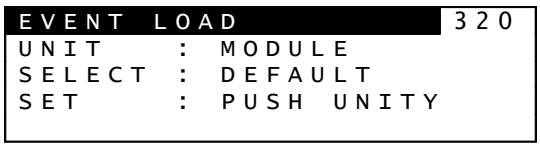

| Item | Display |
|---|---|
| IP ADDRESS | Displays IP address of UF-NETRU. |
| SUBNET | Displays Subnet mask of UF-NETRU. |
| GATEWAY | Displays Default Gateway of UF-NETRU. |
| TCP PORT | Displays TCP port for communicating with UFM-30CTL. |
| DHCP | Displays whether the DHCP client function in UF-NETRU is enabled or disabled. |
| MAC ADDRESS | Displays MAC address of UF-NETRU. |

The values specified in 6.16. NETWORK SETTING (UF-NETRU) and 8. Network Setting are displayed.

# 7. Event Operation

NETRU can control events in UFM-30FS and it also can save 50 events of UFM-30FS settings in itself.

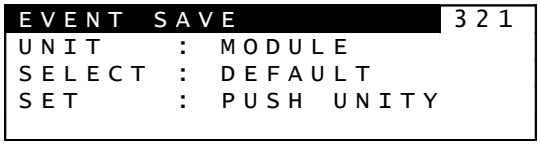
## 7.1. EVENT LOAD




Menu Button


Turn **F1** to select the device where the event is saved. Select **MODULE** if you wish to load the event saved in the UFM-30FS module. Select **UF-NETRU** if you wish to load the event saved in the UF-NETRU.
Turn **F2** to select an event. Press **F3 UNITY** to load the event to the UFM-30FS.
If MODULE is selected for the UNIT, DEFAULT and VID FMT become selectable. The DEFAULT returns all settings in UFM-30FS to the factory default. The VID FMT loads the settings saved for the format of the input to the UFM-30FS.
See the UFM-30FS Operation Manual, 4-4-17. “Event Memory” for details.

## 7.2. EVENT SAVE




Menu Button


Turn **F1** to select the target device for saving events. Select **MODULE** if you wish to save events to the UFM-30FS module. Select **UF-NETRU** if you wish to save events to the UF-NETRU.
Turn **F2** to select the event number. Press **F3 UNITY** to save the current settings to the selected event number.
If MODULE is selected for the UNIT, VID FMT becomes selectable.
The VID FMT saves the settings to the format of the input to the UFM-30FS.
See the UFM-30FS Operation Manual, 4-4-17. “Event Memory” for details.

The following settings are not saved to events.
- Button status: LOCK button (See section 2.1. ”Front Panel.”)
- Menu setting:
  - ON/OFF (See section 6.6. ”FREEZE.”)
  - VIDEO (See section 6.8. ”TEST SIGNAL.”)
  - AUDIO (See section 6.8. ”TEST SIGNAL.”)

# 8. Network Setting

## 8.1. Configuration Settings from a Web Browser

The following configuration items can be set or displayed from a web browser in a computer that is connected to the UF-NETRU via an ethernet network.

■ **Information Page**
This page shows the UF-NETRU version.

■ **Network Setting Page**

| Item | Defualt | Desciption |
|---|---|---|
| DHCP | Disabled | Sets the DHCP client function enabled or disabled. (Do not change from the default setting in the normal cases.) |
| IP Address | 192.168.0.100 | Sets IP address of UF-NETRU. |
| IP SubnetMask | 255.255.255.0 | Sets Subnet mask of UF-NETRU. |
| Default Gateway | 0.0.0.0 | Sets Default Gateway of UF-NETRU. (Do not change from the default setting in the normal cases.) |
| Control TCP Port | 50000 | Sets the TCP port used in UF-NETRU. (Do not change from the default setting in the normal cases.) |

■ **Frame->IP Table Page**
This page is used to assign IP addresses to the FRAME numbers. This will make it faster and easier to connect to a UFM-30CTL.

■ **User Account Page**

| Item | Default | Description |
|---|---|---|
| User Name | uf-netru | Sets a User Name. User Name should be a maximum of 16 alphanumeric characters. |
| Password | foranetwork | Sets a password. Password should be a maximum of 16 alphanumeric characters. |

## 8.2. Changing Settings from the Web Browser

### 8.2.1. Network Setting for the Computer

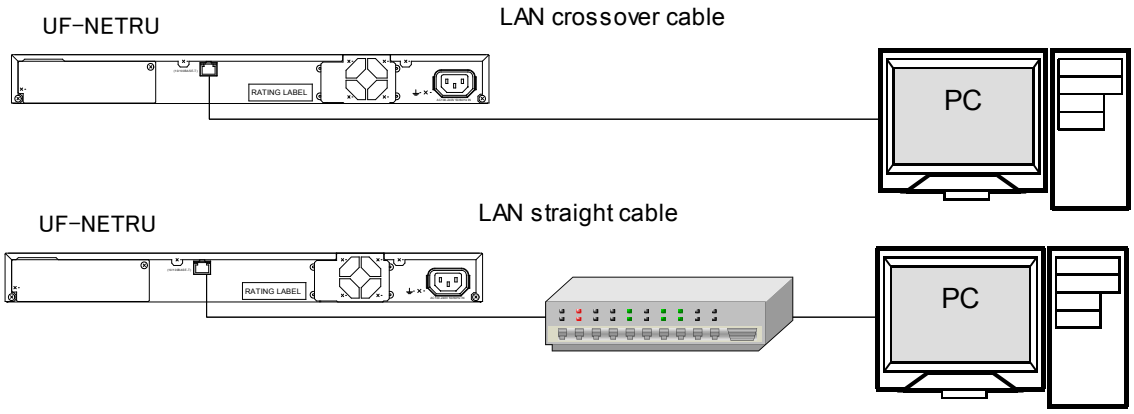
To connect the UF-NETRU from the computer for the first time, the IP address for the computer should be set in the following range:

IP address 192.168.0.1 to 192.168.0.254 (except 192.168.0.100)
Subnetmask 255.255.255.0

Open the ”Local Area Connection” → Double-click ”Internet Protocol (TCP/IP)” under the General tab, and then make the settings. See the User’s manual for the computer for details.

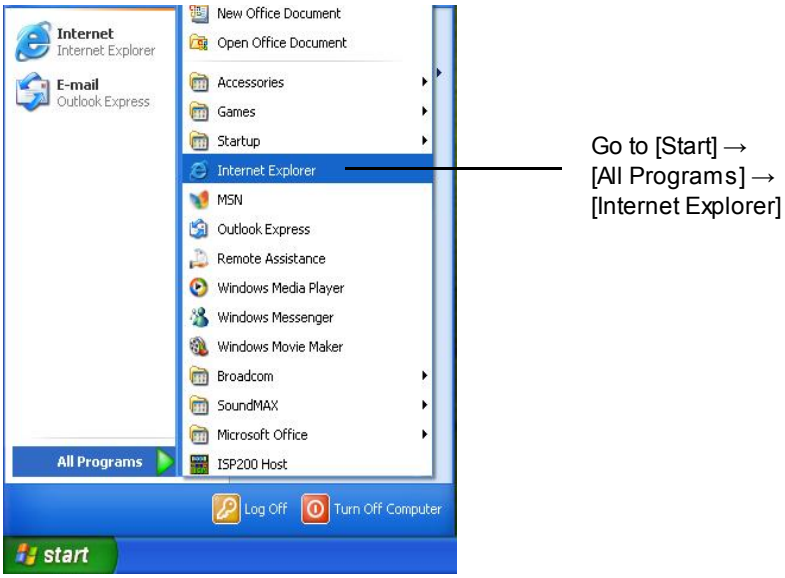
## 8.2.2. Connecting UF-NETRU and the Computer

Connect the computer to the UF-NETRU directly or using an Ethernet hub as shown below.

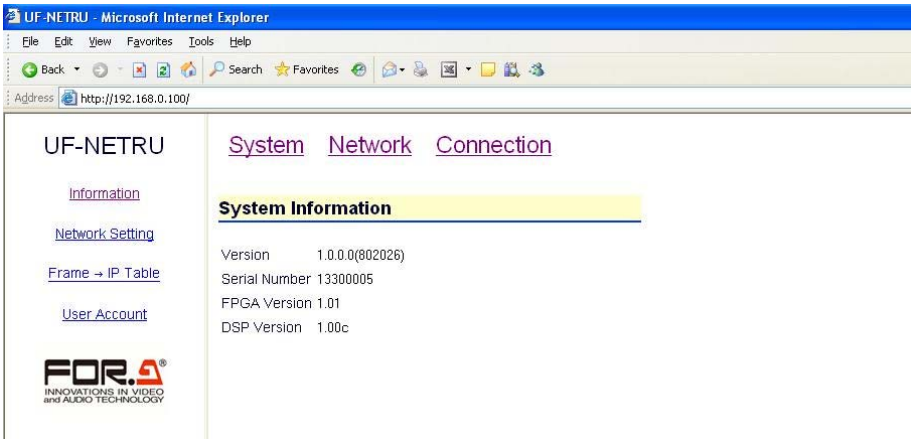



## 8.2.3. Displaying the UF-NETRU GUI Screen

1) Start the web browser (Internet Explorer).




2) Enter "http://192.168.0.100/" in the address bar in the browser and press **Enter.** The screen as shown below appears.




3) Click **Network Setting**, **Frame->IP Table**, or **User Account** on the left of the window.

An authentication dialog box appears.

4) Enter the user name and password using single byte alphanumeric characters, and press **OK**. The default user name is **uf-netru**, and the default password is **foranetwork**.


5) After logging in, make the necessary settings such as changing the IP address or user account settings, or assigning an IP address to a frame number.

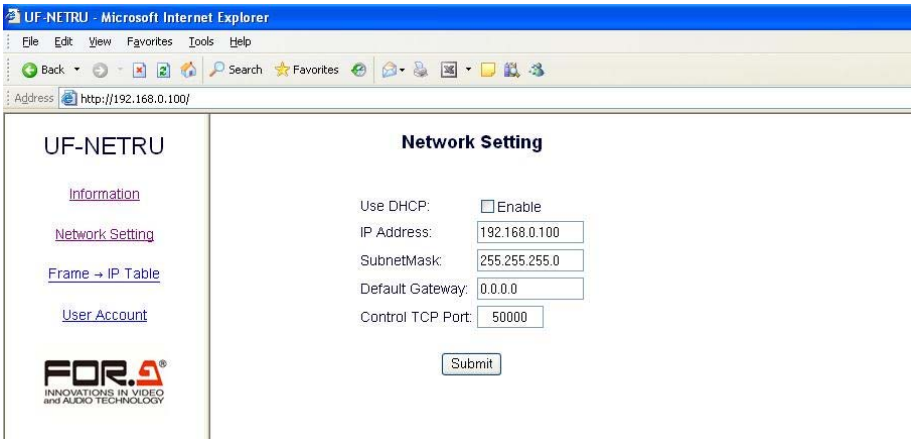
## 8.2.4. Changing IP address of UF-NETRU

The default IP address settings for UF-NETRU units are as below.

IP address **192.168.0.100**
Subnet Mask **255.255.255.0**

To change the IP address of UF-NETRU, proceed as follows:

1) After logging in, click **Network Setting** to open the **Network Setting** page.
2) Change the IP address and/or the subnet mask, if necessary. For example, set the IP address “192.168.0.101” for the second UF-NETRU.
3) Press **Submit**. The changes are sent to the UF-NETRU and the UF-NETRU restarts.




4) Enter “**http://(new IP address)/**” into the address bar and see if the connection is established properly.

## 8.2.5. Changing User Account Settings

The default user account settings for UF-NETRU are as below.

| | |
|---|---|
| User Name | **uf-netru** (single-byte lower-case alphabets) |
| Password | **foranetwork** (single-byte lower-case alphabets) |

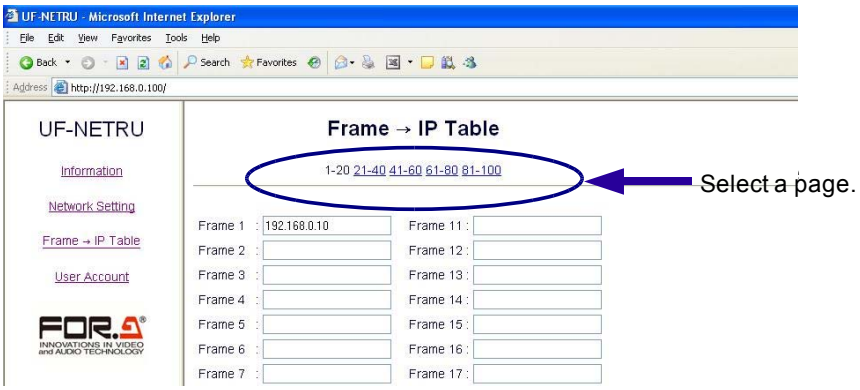
Follow the steps below for changing the user account settings for UF-NETRU.

1) After logging in, click **User Account** to open the **User Account** page.
2) Change the user name and password. Up to 16 single-byte alphanumeric characters are allowed.
3) Press **Submit**. The changes are sent to the UF-NETRU and the UF-NETRU restarts.


4) Close the browser. Start the browser and open the UF-NETRU page again. Click **User Account** to open the page. Enter the new user name and password and see if they work properly.

## 8.2.6. Assigning an IP address to a Frame Number

1) After logging in, click **Frame->IP Table** to open the **Frame->IP Table** page.
2) Select a page at the top of the window.
3) Enter the IP address of the UFM-30CTL in the Frame box you wish to assign the address.




4) Click **Submit**. The setting is sent to the UF-NETRU.

# 9. Resetting

If you forgot your user name or password for logging into the UF-NETRU page, the settings can be reset by setting the dipswitch (S1) shown in the figure below under the top cover.

Inside UF-NETRU


All pins are set to OFF by default.

| Pin No. | Description |
|---|---|
| 1 | Do not use. (must always be OFF) |
| 2 | Factory default settings |
| 3 | User name and password |
| 4 | Frame -> IP table |
| 5 | Do not use. (must always be OFF) |
| 6 | Do not use. (must always be OFF) |
| 7 | Do not use. (must always be OFF) |
| 8 | Do not use. (must always be OFF) |

## 9.1. Resetting Settings

1) Turn off the power of the UF-NETRU.
2) Open the top cover of the UF-NETRU.
3) Depending on the setting you wish to reset, set the corresponding pin of the dipswitch to **ON**. (For example, to reset the user account, set **S1-3** to **ON**. To reset the Frame -> IP table, set **S1-4** to **ON**.)
4) Turn on the power of the UF-NETRU.
5) The relevant setting is reset.
6) After resetting is complete, "**CONNECT INFO**" appears on the screen.
7) Turn off the power of the UF-NETRU.
8) Set all dipswitches to **OFF**.
9) Close the top cover of the UF-NETRU.
10) Refer to 6.16. "NETWORK SETTING (UF-NETRU)" and make the network settings.

# 10.If Problems Occur

If any of the following problems occur during operation of your UF-NETRU, proceed as indicated below to see if problem can be corrected before assuming a unit malfunction has occurred.

| Problem | Check | Action |
|---|---|---|
| Cannot control UF-NETRU from the front panel. | Is LOCK button lit red? | If LOCK button is lit red, press and hold down the LOCK button to release the lock. |
| Cannot control UFM-30FS. | MODULE SELECT-<br>IP ADDRESS setting | Specify the correct IP address of UFM-30CTL. |
| | MODULE SELECT-<br>SLOT setting | Select the correct number for the slot where the UFM-30FS is installed. |
| | Is the same IP address used for more than one device? | Change the IP address if it is used for more than one device. |
| Video is frozen. | FREEZE setting | Set FREEZE to OFF. |
| Cannot display video. | Can the display device accept the SDI Multi-Format? | Use the display device that can accept SDI Multi-Format signals. |
| Cannot freeze video | Is SYNC MODE set to LINE SYNC? | Freeze function cannot be used when SYNC MODE is set to LINE SYNC. (See section 6.2. SYSTEM SETTING.)<br>Change the SYNC MODE setting. |
| Cannot save or load events. | AUTO EVENT LOAD setting in EVENT LOAD CTL menu<br>(See 6.9. ” EVENT LOAD CTL.”) | Set AUTO EVENT LOAD to DISABLE. |

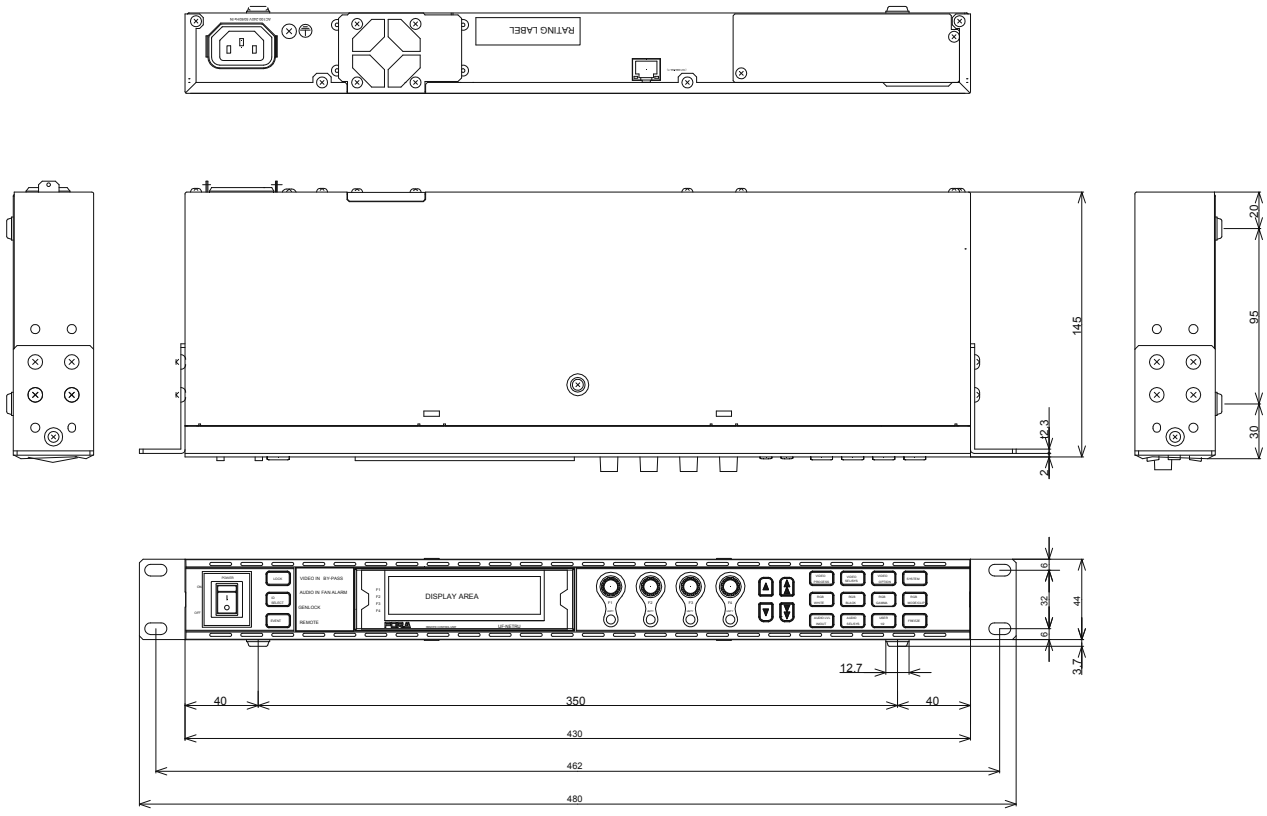
# 11.Specifications and Dimensions

## 11.1.Unit Specifications

| | | |
|---|---|---|
| Interfaces | | |
| Ethernet: | 100BASE-TX/10BASE-T, RJ-45, 1port,<br>Protocol: TCP/IP, HTTP | |
| Temperature | 0°C - 40°C | |
| Humidity | 30% - 90% (no condensation) | |
| Power | 100VAC-240VAC±10%, 50/60Hz | |
| Consumption | 24VA (13W) (at 100VAC)<br>31VA (16W) (at 200VAC) | |
| Weight | 2.2kg | |
| Dimensions | 430 (W) ×44 (H) ×145 (D) mm | |
| Consumables | Power unit: | JBW12-2R5<br>(Replace every 5 years at normal temperature.) |
| | Cooling fans: | 109P0405 M6D01<br>(Replace every 5 years at normal temperature.) |

## 11.2.External Dimensions

(All dimensions in mm.)



# Warning

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