

HDMI/USB-C Switcher

Operation Guide Ver.1.1.0

ſ		IMP_V2111				
			IN 2	N 3	OFF	INPUT SIGNAL
	December 2015					USB-C 3
l	D BUTTON LOCK					Ĺ

Thank you for choosing our product.

Please thoroughly familiarize yourself with this guide before installing this equipment. We recommend keeping this manual together with the equipment for future reference as needed.

IDK Corporation

- All rights reserved.
- Some information contained in this guide such as exact product appearance, communication commands, and so on may differ depending on the product version.
- This guide is subject to change without notice. You can download the latest version from IDK's website at: www.idkav.com

About technical documentation

■ Please read the following guides before connecting this equipment to a power source.

	1. Safety Instructions Contains important safety instructions for the product to help ensure your own personal safety and protect the	
	product and working environment from potential damage.	the product.
	2. Setup Guide	Download from
	Contains setup information and precautions for installing the product and connecting cables.	www.idkav.com

Please refer to the following guides as needed.

3.	Operation Guide	
	Describes how to configure and use the equipment.	
4.	User Guide	Download from
	Contains detailed explanation of functions, setting values, and restrictions.	
5.	Command Guide	www.idkav.com
	Contains information on controlling the equipment using communication commands through RS-232C or LAN	
	communication.	

Trademarks

- HDBaseT[™] and the HDBaseT Alliance Logo are trademarks of the HDBaseT Alliance.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
- SDVoE[™] and SDVoE logo are trademarks of SDVoE Alliance.
- Audinate[®] is a registered trademark of Audinate Pty Ltd. Dante[®] is a registered trademark of Audinate Pty Ltd.
- All other company and product names mentioned in this document are either registered trademarks or trademarks of their respective owners. In this document, the "®" or "™" marks may not be specified.
- ©2024 IDK Corporation, all rights reserved.

FCC STATEMENT

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

(Class A)

Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Unique Identifier

Type of Equipment: HDMI/USB-C Switcher

Model Name: IMP-V31U

Responsible Party – U.S. Contact Information

Company Name: IDK America Inc.

Address: 72 Grays Bridge Road Suite 1-C, Brookfield, CT 06804

Telephone number: +1-203-204-2445

URL: www.idkav.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

(FCC SDoC)

CE MARKING

This equipment complies with the essential requirements of the relevant European health, safety and environmental protection legislation.

WEEE MARKING



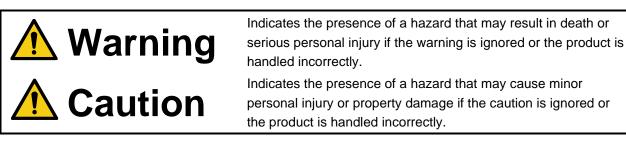
Waste Electrical and Electronic Equipment (WEEE), Directive 2002/96/EC (This directive is only valid in the EU.)

This equipment complies with the WEEE Directive (2002/96/EC) marking requirement. The left marking indicates that you must not discard this electrical/electronic equipment in domestic household waste.

Safety Instructions

Read all safety and operating instructions before using this product. Follow instructions and heed warnings/cautions.

Instructions and warnings/cautions for all products are provided. Some of them may not be applicable to your product.



Symbol	Description	Example
Caution	This symbol is intended to alert the user. (Warning and caution)	Hot surfaces Caution
Prohibited	This symbol is intended to prohibit the user from specified actions.	Do not disassemble
Instruction	This symbol is intended to instruct the user.	Unplug



For lifting heavy products:



• Lifting must be done by two or more personnel.

To avoid injury: When lifting the product, bend your knees, keep your back straight and get close to it with two or more persons.

For installing and connecting products:

	Do not place the product in unstable place.
\bigcirc	Install the product in a horizontal and stable place, as this may fall or tip over and cause injury.
	 Secure the product if installing in the locations with vibration.
Prohibited	Vibration may move or tip over the product unexpectedly, resulting in injury.



	1
	 Installation work must be performed by professionals.
	The product is intended to be installed by skilled technicians. For installation, please contact a system integrator or
	IDK. Improper installation may lead to the risk of fire, electric shock, injury, or property damage.
	 Insert the power plug into an outlet that is unobstructed.
	Unobstructed access to the plug enables unplugging the product in case of any extraordinary failure, abnormal
	situation or for easy disconnection during extended periods of non-use.
	 Insert the power plug into an appropriate outlet completely.
	If the plug is partially inserted, arching may cause the connection to overheat, increasing the risk of electric shock or
	fire. Do not use a damaged plug or connect to a loose outlet.
Instruction	 Unplug the product from an AC power source during installation or service.
	When connecting peripheral devices to this product, unplug all involved devices from outlets. Ground potential
	differences may cause fire or other difficulties.
	 The product must be electrically earthed/grounded.
	To reduce the risk of electric shock, ensure the product is connected to a mains socket outlet with a protective
	earthing connection.
	 For PoE/PoH, use category cables meeting IEEE802.3af/at.
	Otherwise, it may cause problems or a fire.

For operating products:

Prohibited	 Keep out any foreign objects. To avoid fire or electric shock, do not permit foreign objects, such as metal and paper, to enter the product from vent holes or other apertures. For power cable/plug and Category cable, Do not scratch, heat, or modify, including splicing or lengthening them. Do not pull, place heavy objects on them, or pinch them. Do not bend, twist, tie or clamp them together forcefully. Misuse of the power cable and plug may cause fire or electric shock. If power cables/plugs become damaged, contact your IDK representative.
Do not disassemble	• Do not repair, modify or disassemble. Since the product includes circuitry that uses potentially lethal, high voltage levels, disassembly by unauthorized personnel may lead to the risk of fire or electric shock. For internal inspection or repair, contact your IDK representative.
Do not touch	• Do not touch the product and connected cables during electric storms. Contact may cause electric shock.
Instruction	• Clean the power plug regularly. If the plug is covered in dust, it may increase the risk of fire.

If the following problem occurs:

	Unplug	 Unplug immediately if the product smokes, makes unusual noise, or produces a burning odor. Unplug immediately if the product is damaged by falling or having been dropped. Unplug immediately if water or other objects are directed inside.
Unplug	Unplug	If you continue to use the product under these conditions, it may increase the risk of electric shock or fire. For
		maintenance and repair, contact your IDK representative.

5



For installing	g and connecting products:
	 Do not place the product in a location where it will be subjected to high
	temperatures.
	If the product is subjected to direct sunlight or high temperatures while under operation, it may affect the product's
	performance and reliability and may increase the risk of fire.
	• Do not store or operate the product in dusty, oil smoke filled, or humid place.
\frown	Placing the product in such environment may increase the risk of fire or electric shock.
	Do not block the vent holes.
Prohibited	If ventilation slots are blocked, it may cause the product to overheat, affecting performance and reliability and may
Frombiled	increase the risk of fire.
	• Do not place or stack heavy items on the product.
	Failure to observe this precaution may result in damage to the product itself as well as other property and may lead
	to the risk of personal injury.
	• Do not exceed ratings of outlet and wiring devices.
	Exceeding the rating of an outlet may increase the risk of fire and electric shock.
	• Do not handle power plug with wet hands.
	Failure to observe this precaution may increase the risk of electric shock.
No wet hands	
nanus	
	• Use and store the product within the specified temperature/humidity range.
	If the product is used outside the specified range of temperature and humidity continuously, it may increase the risk
	of fire or electric shock.
	• Do not place the product at elevations of 1.24 mi. (2,000 m) or higher above sea
	level.
	Failure to do so may shorten the life of the internal parts and result in malfunctions.
	When mounting the product into the rack, provide sufficient cooling space.
	Mount the product in a rack meeting EIA standards, and maintain spaces above and below for air circulation. For
Instruction	your safety as required, attach an L-shaped bracket in addition to the panel mount bracket kit to improve mechanica
	stability.
	Never insert screws without the rubber feet into the threaded holes on the bottom of the president
	the product.
	Never insert screws alone into the threaded holes on the bottom of the product. Doing so may lead to damage when
	the screws contact electric circuitry or components inside the product.
	Reinstall the originally supplied rubber feet using the originally supplied screws only.

For operating products:

Hot surfaces Caution	For products with the hot surfaces caution label only: • Do not touch the product's hot surface. If the product is installed without enough space, it may cause malfunction of other products. If you touch product's hot surface, it may cause burns.
Prohibited	 Use only the supplied power cable and AC adapter. Do not use the supplied power cable and AC adapter with other products. If non-compliant adapter or power cables are used, it may increase the risk of fire or electric shock.
Unplug	 If the product won't be used for an extended period of time, unplug it. Failure to observe this precaution may increase the risk of fire. Unplug the product before cleaning. To prevent electric shock.
Instruction	 Do not prevent heat release. If cooling fan stops, power off the product and contact IDK. Failure to do so may raise internal temperature and increase the risk of malfunction, fire, or electric shock. Keep vents clear of dust. If the vent holes near the cooling fan or near the fan are covered with dust, internal temperatures increase and may increase the risk of malfunction. Clean the vent holes and near the fan as needed. If dust accumulates inside of the product, it may increase the risk of fire or electric shock. Periodic internal cleaning, especially before humid rainy season, is recommended. For internal cleaning, contact your IDK representative.

Contents

About this Guide	10
Conventions	10
About thie Product	11
Provided items	11
Panel overview	12
Precautions for Installation	13
Connection Details	14
Connecting HDMI devices	14
Connecting USB devices	15
Connecting analog devices	16
Control connections	17
Advanced menu	18
Front Panel Operations	19
Switching video/audio	19
Setting front panel security lockout	19
WEB Browser Operation	20
Displaying WEB GUI	20
Changing settings via WEB vrowser	21
Controlling IMP-V via WEB browser	22
Editing crosspoint name	23
Enabling WEB GUI login	24
Logging into WEB GUI	26
Logging out of WEB GUI	26
Setting Video Attributes	27
Displaying video on non-HDCP compliant sink device	27
Enabling Deep Color input	28
Setting Audio	29
Adjusting audio level	29
Outputting analog input audio	30
Enabling multichannel audio input	31
Enablingling bitstream audio	32
EDID	33
Selecting EDID	33
Changing supported resolution of built-in EDID	34
Copying EDID of sink device	35
Automatic Input Switching	36
Configuring automatic input switching	36
Automatic input switching – Setting response delay interval	37
RS-232C/LAN Communication	38
Configuring RS-232C communication	38
Configuring LAN communication	
Viewing Status	
Viewing input signal status	
Viewing output signal status	
Viewing sink device EDID	
Backup and Restore	
Backing up settings	
Restoring settings from backup file	

Initialization	45
Initializing all settings	45
Initializing settings other than LAN/RS-232C configurations	46
Troubleshooting	47

About this Guide

This guide describes how to configure and use the IMP-V31U HDMI/USB-C switcher (hereafter referred to as IMP-V).

Conventions

- The following terms are used in this guide.
 - PC : Personal computer
 - WEB GUI : Graphic User Interface (GUI) displayed through a WEB browser.
 - OUT A : OUT 1A connector or OUT 2A connector
 - OUT B : OUT 1B connector or OUT 2B connector
 - INOFF : Input channel OFF
- The following symbols are used in this guide.
 - [] : Menus and messages displayed on the front panel display and a WEB GUI.
 - " : Reference
- The following notifications are used in this guide.
 - *Note* : Addresses practices not related to personal injury, such as restrictions and attention.
 - *Tip* : Provides supplemental remarks and suggestions.

About thie Product

The IMP-V31U is an HDMI and USB-C switcher having three (3) inputs and two (2) distributed outputs.

This IMP switcher includes two (2) HDMI and one (1) USB-C video inputs that will support up to 4K@60 video resolution. The selected input video signal can be distributed to both HDMI and USB-C video outputs simultaneously. The video signal from the USB-C output can be fed to a PC and be used to present content in various video conferencing applications. With built-in scan converter, the resolution from the USB-C video signal output can be selected from the connected PC.

For audio input, the IMP-V31U provides two (2) HDMI, one (1) USB-C, and one (1) analog audio inputs. Analog audio can be mixed with digital audio of the selected input channel. The selected input audio signals are distributed to both HDMI and USB-C outputs.

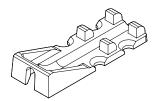
The switcher also includes RS-232C and LAN as communication ports that offer remote setting from WEB browser or control commands.

Provided items

Ensure that all items illustrated below are included in the package. If any items are missing or damaged, please contact IDK.



One (1) AC adapter (4 ft. (1.2 m))



Five (5) Cable lacing brackets

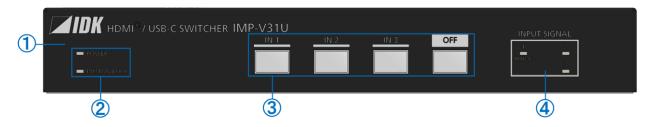
Five (5) Tie wraps



Two (2) 3-pin captive-screw terminal blocks

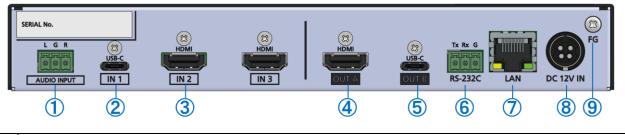
Panel overview

Front panel



1	Front panel
	User accessible control buttons and status LED.
2	POWER and BUTTON LOCK LED
	Shows power and button lock status.
3	Input selection buttons
	Selects an input.
	Lights if the IN is selected.
4	INPUT SIGNAL LED
	Illuminates if the video signal is input.

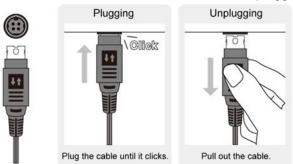
Rear Panel



1	Analog audio input
2	USB-C input
3	HDMI input
4	HDMI output
(5)	USB-C output
6	RS-232C
$\overline{\mathcal{O}}$	LAN
8	DC input
9	Frame ground (M4 screw)

Precautions for Installation

- Grounding (Earthing) is required. Connect the FG (Frame Ground) connector to a local electrical ground bonding point.
- When installing the IMP-V, observe the following precautions; otherwise, the internal temperature increases, possibly affecting product reliability and operation.
 - Do not stack or place one IMP-V directly on top of another IMP-V.
 - Do not block vent holes.
 - Maintain sufficient clearances around the IMP-V (1.2 in. (30 mm) or more) to provide adequate ventilation.
 - It is advisable to install the IMP-V in an environment compatible with the maximum temperature indicated in the specification sheet 32°F to 104°F (0°C to +40°C).
 - If mounting the IMP-V on an optional IDK rack system, refer to its User Guide for details.
- Insert the DC plug into the power inlet connector of the IMP-V until it clicks.
 Hold the connector as illustrated below when unplugging the DC plug.



Connection Details

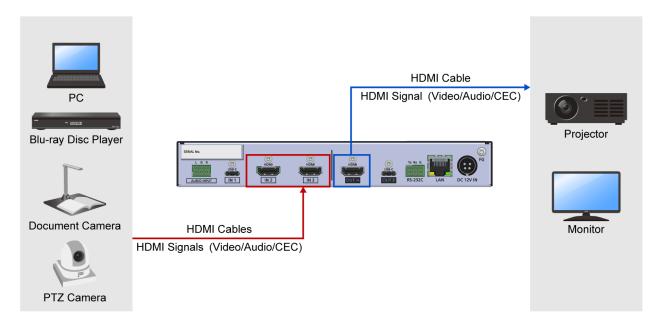
When connecting the IMP-V to external devices, observe the following precautions.

Notes

- Before connecting cables to the IMP-V or an external device, dissipate static electricity by touching grounded metal such as equipment racks before handling signal cables. Failure to observe this precaution may result in ESD (electrostatic discharge) damage.
- · Power off or disconnect all related devices before connecting cables.
- · Be sure to fully seat all plugs and connections and dress cables to reduce stress on connectors.

Connecting HDMI devices

Connect the IMP-V to HDMI devices using HDMI cables.

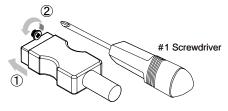


Notes

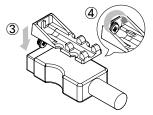
- Video may be interrupted or may not be output depending on cable type, cable quality, cabling condition, connected device type, and installation environment.
- A problem may occur if a cable joint is used for HDMI cable extension.

Cable Lacing Bracket (FB-01 for IDK products only)

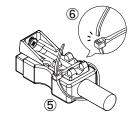
Use the cable lacing bracket to secure a standard HDMI cable as shown.



- ① Plug the HDMI cable into the HDMI connector.
- ② Loosen the HDMI connector screw (about six turns). The screw does not need to be removed.



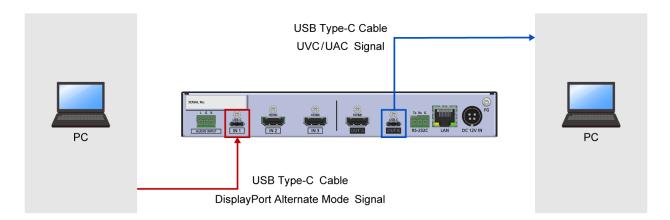
- ③ Place the bracket on the screw.
- ④ Tighten the screw to secure the bracket. (Do not overtighten the screw.)



- (5) Place the tie wrap around the cable and tighten the tie wrap as above.
- 6 Cut excess length.

Connecting USB devices

Connect the IMP-V to USB devices using USB Type-C cables.



Notes

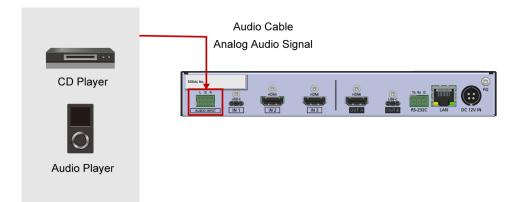
- For USB-C input, use a USB 3.2 Gen1 or higher USB Type-C cable.
- Video may be interrupted or may not be output depending on cable type, cable quality, cabling condition, connected device type, and installation environment.
- A problem may occur if a cable joint is used for USB Type-C cable extension.

Cable Lacing Bracket (FB-01 for IDK products only)

Use the cable lacing bracket to secure a USB Type-C cable by seeing "Connecting HDMI devices (P.14)".

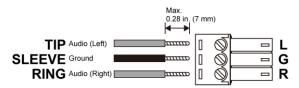
Connecting analog devices

Connect the IMP-V to analog audio devices over audio cables.



Тір

Connect the captive-screw terminal blocks to audio cable as follows:

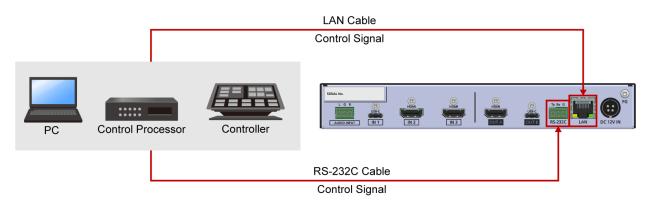


28 AWG to 16 AWG conductor cabling is recommended.

The length of the exposed wire after stripping is 0.28 in. (7 mm) at maximum.

Control connections

Connect the IMP-V to external devices over LAN/RS-232C to control the IMP-V from external devices.



Tip

Connect the captive-screw terminal blocks to LAN/RS-232C cables as follows:

RS-232C cable



28 AWG to 16 AWG conductor cabling is recommended. The length of the exposed wire after

stripping is 0.28 in. (7 mm) at maximum.

Advanced menu

The menu structure consists of frequently used basic menus and advanced menus. Only the basic menus are displayed by default.

This section describes how to display both basic and advanced menus.

For sections that describe an advanced menu, the **Advanced** indication below is included at the lower right area of the section title.



WEB GUI

- 1. Select [SYSTEM SETTINGS].
- 2. Select [ON] from [ADVANCED MEN].

12							
[MENU]	[SYSTEM SETTINGS]						
CROSS POINT							
OUTPUT SETTINGS INPUT SETTTINGS	ADVANCED MENU	OFF	ON				
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING					
INPUT AUDIO SETTINGS EDID SETTINGS	AUTO UPDATE TIME	OFF	ON		0 +	1 - 100s	
RS232C SETTINGS LAN SETTINGS POWER ON SETTINGS	BACKUP/RESTORE	BACKUP Choose File No file chose	en	ances			
SYSTEM SETTINGS			1				
VIEW STATUS	INITIALIZATION	NORMAL INITIALIZATION INIT	ALL FIALIZATION				

Front Panel Operations

This chapter contains information on the front panel operation and security lock.

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Switching video/audio

Front Panel

1. Press the input selection button.

The selected button lights solid amber.



Setting front panel security lockout

Enabling front panel security lockout

Front Panel

 Press and hold the IN1 button for three seconds. When the lickout is enabled, the BUTTON LOCK LED lights solid amber.

	CHER IMP-V31U				
	<u>IN 1</u>	<u>IN 2</u>	IN 3	OFF	
I COWLIN	****				
The torators a					

Disabling front panel security lockout

Front Panel

 Press and hold the IN1 button for three seconds. When the lickout is enabled, the BUTTON LOCK LED turns off.



WEB Browser Operation

This chapter describes how to control the IMP-V via a WEB browser of a connected PC.

Displaying WEB GUI

WEB GUI

1. Configure network settings for the PC before connecting to the IMP-V.

If the IMP-V's IP address is set to its default, set the internet protocol version 4 (TCP/IPv4) of the PC. Example

IP address : 192.168.1.100

Subnet mask : 255.255.255.0

- 2. Connect the IMP-V's LAN connector to the PC.
- 3. Open a WEB browser on the connected PC.
- **4.** Enter the IP address of the IMP-V into the address bar of the WEB browser. Note that the default IP address is 192.168.1.199.

Note

JavaScript of WEB browser needs to be activated to display the WEB GUI.

Тір

See "Configuring LAN communication (P.39)" for setting or viewing the IMP-V's IP address.

Advanced

Changing settings via WEB vrowser

WEB GUI

- **1.** Select the main menu (1).
- 2. Select the output(2).
- **3.** Select or specify the desired values (③).

[MENU] ①	[OUTPUT SETTINGS]				
CROSS POINT	OUT A OUT B	2			
OUTPUT SETTINGS		E			
INPUT SETTTINGS	SIGNAL OUTPUT	OFF	ON	3	
AUTO SWITCHING				9	
OUTPUT AUDIO SETTINGS	VIDEO MUTE	OFF	ON		
INPUT AUDIO SETTINGS					
EDID SETTINGS	DDC POWER CONTROL	ON	OFF	0 – + 0 - 60s	
RS232C SETTINGS	SIGNAL FORMAT	FOLLOW SOURCE			
LAN SETTINGS	SIGNAL PORMA	FOLLOW SOURCE			
POWER ON SETTINGS	FOLLOW SINK EDID	OFF	ON		
SYSTEM SETTINGS					
	HOTPLUG MASK	OFF	ON	2 – + 2 - 15s	
VIEW STATUS					

Тір

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Controlling IMP-V via WEB browser

<u>WEB GUI</u>

- 1. Select [MENU]→[CROSS POINT].
- 2. Select or specify the desired values.

IMP-V31U HDM	MP-V31U HDMI/USB-C SWITCHER							
[MENU]	[CROSS POINT	1						
CROSS POINT	1							
OUTPUT SETTINGS				IN1	IN2	IN3	OFF	
INPUT SETTTINGS	CHANNEL SELECT	(1)		_	_	_	_	
AUTO SWITCHING			OUT	_				
OUTPUT AUDIO SETTINGS								
INPUT AUDIO SETTINGS			BUTTO	N LOCK				
EDID SETTINGS	BUTTON LOCK	2		_				
RS232C SETTINGS								
LAN SETTINGS	NAME EDIT	3	NAME	EDIT				
POWER ON SETTINGS		J						
SYSTEM SETTINGS								
VIEW STATUS								

1	[CHANNEL SELECT]	Selects an input channel.
2	[BUTTON LOCK]	Enables/disables button lock.
3	[NAME EDIT]	Edits input names and other items displayed on WEB GUI.

Editing crosspoint name

WEB GUI

- 1. Select [MENU]→[CROSS POINT].
- 2. Click the [NAME EDIT] button from [CROSSPOINT] to open the [NAME EDIT] window.
- **3.** Enter the desired name(s).

		①Input channel names:
[NAME EDIT]		Up to 10 one-byte characters.
INPUT1	IN1	
INPUT2	IN2	2 Output channel names:
INPUT3	IN3	Up to 10 one-byte characters.
ОЛТРИТ СН 2	OUT	
OUTPUT HDMI CONNECTOR	OUT A	③Output connector names:
OUTPUT USB-C CONNECTOR	OUT B	Up to 10 one-byte characters.
MACHINE NAME	IMP-V31U HDMI/USB-C SWITCHER	
		(4) Device name:
		Up to 40 one-byte characters.

4. Click the [×] button to close the [NAME EDIT] window.

IMP-V31U HDM	I/USB-C SWITCHER
[MENU]	[CROSS POINT]
CROSS POINT	
OUTPUT SETTINGS	IN1 IN2 IN3 OFF
INPUT SETTTINGS	
AUTO SWITCHING	
OUTPUT AUDIO SETTINGS	
INPUT AUDIO SETTINGS	BUTTON LOCK
EDID SETTINGS	BUTTON LOCK
RS232C SETTINGS	
LAN SETTINGS	NAME EDIT NAME EDIT
POWER ON SETTINGS	
SYSTEM SETTINGS	
VIEW STATUS	

[MENU]	[OUTPUT SETTINGS]				
CROSS POINT	OUT A OUT B				
OUTPUT SETTINGS		3			
INPUT SETTTINGS	SIGNAL OUTPUT	OFF	ON		
AUTO SWITCHING					
OUTPUT AUDIO SETTINGS	VIDEO MUTE	OFF	ON		
INPUT AUDIO SETTINGS		ON	OFF		0.50
EDID SETTINGS	DDC POWER CONTROL	UN	OFF	0	0 - 60s
RS232C SETTINGS	SIGNAL FORMAT	FOLLOW SOURCE			
LAN SETTINGS	FOLLOW SINK EDID	OFF	ON	0	
POWER ON SETTINGS	TOLLOW SINK EDID	on .	ON		
SYSTEM SETTINGS	HOTPLUG MASK	OFF	ON	2	2 - 15s
VIEW STATUS					

Enabling WEB GUI login

WEB GUI

Advanced

- 1. Select [MENU]→[SYSTEM SETTINGS].
- 2. Click the [LOGIN SETTING] button from [LOGIN SETTING] to open the [LOGIN] window.

[MENU]	[SYSTEM SETTINGS]				
CROSS POINT OUTPUT SETTINGS INPUT SETTTINGS	ADVANCED MENU	OFF ON	R)		
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING			
INPUT AUDIO SETTINGS EDID SETTINGS	AUTO UPDATE TIME	OFF	(0 - +	1 - 100s
RS232C SETTINGS LAN SETTINGS POWER ON SETTINGS SYSTEM SETTINGS	BACKUP/RESTORE	BACKUP Choose File No file chosen	RESTORE		
VIEW STATUS	INITIALIZATION	NORMAL AL INITIALIZATION INITIALIZ	Terrare and the second s		

- 3. On the login page that appears next, enter the desired user ID and password.
 - User ID : admin (Default)
 - Password : admin (Default)
- 4. Click the [LOGIN] button.

USER ID		
PASSWORD		
	LOGIN	

5. To change the user ID and password, enter the desired ID and password. (If you do not change them, you can skip this procedure.)

[NEW USER ID]	: ASCII 30 to 39, 41 to 5A, 5F, 61 to 7A (0 to 9, A to Z, _, a to z)
[NEW PASSWORD]	: ASCII 21 to 7D
[CONFIRM PASSWORD]	: ASCII 21 to 7D
	※Up to 24 characters

[LOGIN SETTING	;]		
NEW USER ID			
NEW PASSWORD			SET
CONFIRM PASSWORD			
LOGIN	OFF	ON	

Note

For the first-time setting, change the user ID and password.

6. Select [ON] for [LOGIN].

[LOGIN SETTING]				
NEW USER ID NEW PASSWORD			SET	1
CONFIRM PASSWORD		1		
LOGIN	OFF	ON		

7. The [LOGOUT] button appears at the upper right.

IMP-V31U HDMI/	USB-C SWITCHI	ER			LOGQUT
[MENU]	[SYSTEM SETTINGS]				
CROSS POINT OUTPUT SETTINGS INPUT SETTTINGS	ADVANCED MENU	OFF	ON		
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING			
INPUT AUDIO SETTINGS EDID SETTINGS R5232C SETTINGS	AUTO UPDATE TIME	OFF	ON	1 - 100s	
RS132C SETTINGS LAN SETTINGS POWER ON SETTINGS SYSTEM SETTINGS	BACKUP/RESTORE	BACKUP Choose File No B	le chosen		
VIEW STATUS	INITIALIZATION	NORMAL INITIALIZATION	ALL INITIALIZATION		

Notes

- Multiple users cannot login at the same time. Only the last (subsequent) user can login.
- Once a user logs in, the session is kept until the user logs out or closes the browser.
- User ID and password are not saved to the backup file.
- Only if initialization command (@CLR,0) is initiated, the user ID and password are initialized.

Tip

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Logging into WEB GUI

If WEB GUI login is enabled, user ID and password need to be changed for WEB GUI operations.

WEB GUI

- **1.** Go to the WEB GUI login page.
- 2. On the login page that appears next, enter the user ID and password.
 - User ID : admin (Default)
 - Password : admin (Default)
- 3. Click the [LOGIN] button.

USER ID		
PASSWORD		
PASSWORD		
	LOGIN	

4. The [LOGOUT] button appears at the upper right.

IMP-V31U HDML	USB-C SWITCHI	ER				LOGOUT
[MENU]	[SYSTEM SETTINGS]					
CROSS POINT OUTPUT SETTINGS INPUT SETTINGS AUTO SWITCHING	ADVANCED MENU	OFF	0%			
OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS EDID SETTINGS RS232C SETTINGS	AUTO UPDATE TIME	OFF	ON	0	1 - 100s	
LAN SETTINGS POWER ON SETTINGS SYSTEM SETTINGS	BACKUP/RESTORE	BACKUP Choose File	No file chosen			
VIEW STATUS	INITIALIZATION	NORMAL INITIALIZATIO	ALL IN INITIALIZATION			

Logging out of WEB GUI

WEB GUI

1. Click the [LOGOUT] button shown at upper right.

MENU]	[SYSTEM SETTINGS]					
CROSS POINT OUTPUT SETTINGS INPUT SETTINGS	ADVANCED MENU	014	ON			
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING				
INPUT AUDIO SETTINGS EDID SETTINGS	AUTO UPDATE TIME	OFF	ON	0	1 - 100s	
RS232C SETTINGS LAN SETTINGS POWER ON SETTINGS SYSTEM SETTINGS	BACKUP/RESTORE	BACKUP Choose File No Be	chosen	0.1010		
VIEW STATUS	INITIALIZATION	NORMAL	ALL INITIALIZATION			

2. Click the [OK] button.



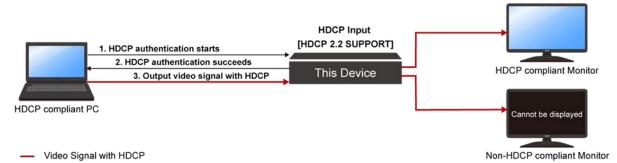
Setting Video Attributes

Displaying video on non-HDCP compliant sink device

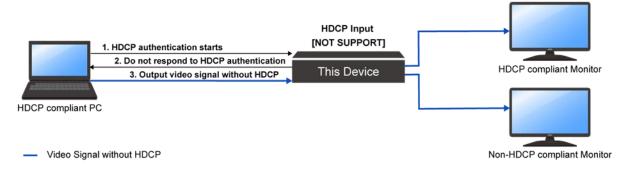
Advanced

By default, the IMP-V operates as an HDCP 2.2-compliant device.

If a source device that automatically determines and encrypts HDCP is connected, HDCP-encrypted video signals cannot be displayed on a non-HDCP compliant sink device.



To display video signals on a non-HDCP compliant sink device, set the IMP-V's input connector to Non-HDCP mode.



WEB GUI

- 1. Select [MENU]→[INPUT SETTINGS].
- 2. Select an input connector, [IN2] or [IN3].
- 3. Select [NOT SUPPORT] for [HDCP]. (Default: HDCP 2.2 SUPPORT)

[MENU]	[INPUT SETT	TINGS]					
CROSS POINT	IN1	IN2	IN3	1			
OUTPUT SETTINGS				<u>4</u>			
INPUT SETTTINGS	NO INPUT MONIT	ORING	OFF	ON	10	- + 2 - 15s	
AUTO SWITCHING	NO IN OT FIGHT	onund			10	2 133	
OUTPUT AUDIO SETTINGS	HDCP INPUT		NOT SUPPORT	~			
INPUT AUDIO SETTINGS	-						
EDID SETTINGS							
RS232C SETTINGS							
LAN SETTINGS							
POWER ON SETTINGS							
SYSTEM SETTINGS							
VIEW STATUS							

Note

For source devices that require HDCP encryption (for example, a Blu-ray player), video or audio cannot be presented on non-HDCP compliant sink devices.

Tip

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Advanced

Enabling Deep Color input

WEB GUI

- 1. Select [MENU]→[EDID SETTINGS].
- 2. Set the input connector as follows:

Submenu	Setting value	Default		
[EDID SELECTION]	BUILT-IN EDID	BUILT-IN EDID		
[SIGNAL FORMAT]	HDMI	HDMI		
[DEEP COLOR]	30-BIT COLOR	24-BIT COLOR		

[MENU]	[EDID SETTINGS]
CROSS POINT OUTPUT SETTINGS	
INPUT SETTTINGS	EDID SELECTION BUILT-IN EDID 🗸
AUTO SWITCHING OUTPUT AUDIO SETTINGS	RESOLUTION 2160p 60Hz 444(3840x2160) V
INPUT AUDIO SETTINGS	SIGNAL FORMAT HDMI DVI
EDID SETTINGS RS232C SETTINGS	FRAME RATE 60Hz SOHz
LAN SETTINGS	DEEP COLOR 30-BIT COLOR V
POWER ON SETTINGS SYSTEM SETTINGS	AUDIO FORMAT Liner PCM 48kHz v
VIEW STATUS	SINK DEVICE EDID COPY OUT A (HDMI) : COPY

Тір

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Setting Audio

This chapter describes how to configure and adjust input and output audio of the IMP-V.

Adjusting audio level

WEB GUI

- 1. Select [MENU]→[INPUT AUDIO SETTINGS].
- 2. Select the input connector.
- 3. Specify the input audio level for [AUDIO LEVEL]. (Default: 0dB)

[MENU]	[INPUT AUDIO SETTINGS]
CROSS POINT	IN1 IN2 IN3 ANALOG
OUTPUT SETTINGS	
INPUT SETTTINGS	AUDIO LEVEL 0 - + - 100 - 10dB
AUTO SWITCHING	
OUTPUT AUDIO SETTINGS	STABLE WAIT OFF ON
INPUT AUDIO SETTINGS	
EDID SETTINGS	
RS232C SETTINGS	
LAN SETTINGS	
POWER ON SETTINGS	
SYSTEM SETTINGS	
VIEW STATUS	

Outputting analog input audio

Analog audio can be embedded to a desired input video.

Embedding analog input audio

WEB GUI

- 1. Select [MENU]→[OUTPUT AUDIO SETTINGS].
- 2. Select [ANALOG INPUT] for [MIXING].

[MENU]	[OUTPUT AUDIO SETTIM	IGS]			
CROSS POINT	OUT A OUT B				
OUTPUT SETTINGS					
INPUT SETTTINGS	MUTE	OFF	ON		
AUTO SWITCHING	and a constant				
OUTPUT AUDIO SETTINGS	MIXING	ANALOG INPUT 🗸)		
INPUT AUDIO SETTINGS	AUDIO ONLY OUTPUT	OFF	ON		
EDID SETTINGS					
RS232C SETTINGS					
LAN SETTINGS					
POWER ON SETTINGS					
SYSTEM SETTINGS					
VIEW STATUS					

Mixing analog input audio to input video

WEB GUI

- 1. Select [MENU]→[OUTPUT AUDIO SETTINGS].
- 2. Select [D/A MIX] for [MIXING].

[MENU]	[OUTPUT AUDIO SETTIN	GS]			
CROSS POINT	OUT A OUT B				
OUTPUT SETTINGS					
INPUT SETTTINGS	MUTE	OFF	ON		
AUTO SWITCHING					
OUTPUT AUDIO SETTINGS	MIXING	D/A MIX 🗸			
INPUT AUDIO SETTINGS	AUDIO ONLY OUTPUT	OFF	ON		
EDID SETTINGS					
RS232C SETTINGS					
LAN SETTINGS					
POWER ON SETTINGS					
SYSTEM SETTINGS					
VIEW STATUS					

Tip

By default, digital audio of the HDMI connector and USB connector is output to 2-channel.

Enabling multichannel audio input

Advanced

By default, it is set to 2-channnel audio so that multichannel audio is not output from a source device. If you want to input multichannel audio, change the EDID settings.

WEB GUI

- 1. Select [MENU]→[EDID SETTINGS].
- 2. Select an input connector, [IN2] or [IN3].
- **3.** Set the input connector as follows:

Submenu	Setting value	Default
[EDID SELECTION]	BUILT-IN EDID	BUILT-IN EDID
[SIGNAL FORMAT]	HDMI	HDMI
[SPEAKER CONFIGURATION]	AUTO	AUTO
	3 to 8 (Number of speakers)	2



Tips

- To change speakers that output multichannel audio, select [MANUAL] for [SPEAKER CONFIGURATION]. For details, refer to the User Guide.
- The speaker placement is as follows:



FL : Front Left	
-----------------	--

- FC : Front Center
- FR : Front Right
- FLC : Front Left Center
- FRC : Front Right Center
- RL : Rear Left
- RC : Rear Center
- RR : Rear Right
- RLC : Rear Left Center

- RRC : Rear Right Center
- LFE : Low Frequency Effect
- FLW: Front Left Wide
- FRW : Front Right Wide
- FLH : Front Left High
- FCH : Front Center High
- FRH: Front Right High
- TC : Top Center
- Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Enablingling bitstream audio

Advanced

By default, bitstream audio is not output from a source device. Change the EDID settings to enable bitstream audio.

WEB GUI

- 1. Select [MENU]→[EDID SETTINGS].
- 2. Select an input connector, [IN2] or [IN3].
- **3.** Set the input connector as follows:

Submenu	Setting value	Default
[EDID SELECTION]	BUILT-IN EDID	BUILT-IN EDID
[SIGNAL FORMAT]	HDMI	HDMI
[SPEAKER CONFIGURATION]	AUTO	AUTO
[SPEARER CONFIGURATION]	3 to 8 (Number of speakers)	2

4. Selest the sampling frequency for [AUDIO FORMAT].



Notes

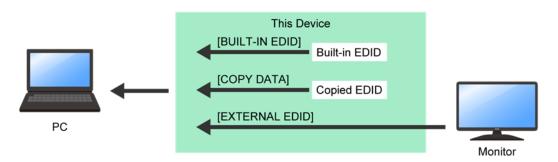
- The following bitstream audio are supported: AAC, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, and DTS-HD
- · Bitstream audio that is not supported by the sink device cannot be output.
- Bitstream audio cannot be output to digital audio of the USB connector.
- · If bitstream audio is input, analog audio cannot be mixed.
- If "Mixing analog input audio to input video (P.30)" is set to [D/A MIX], only digital input audio is output.
- Audio level of bitstream audio cannot be adjusted.

Tip

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

EDID

This chapter describes how to select EDID options and change EDID settings.



[BUILT-IN EDID]: IMP-V's EDID. Native resolution and the like can be changed.[COPY DATA]: EDID copied from sink devices.[EXTERNAL EDID]: EDID of sink devices connected to output connectors.

Selecting EDID

WEB GUI

- 1. Select [MENU]→[EDID SETTINGS].
- 2. Select the input connector.
- 3. Select the EDID profile for [EDID SELECTION] (Default: BUILT-IN EDID).

[MENU]	[EDID SETTINGS]	
CROSS POINT OUTPUT SETTINGS	IN1 IN2	N3
INPUT SETTTINGS	EDID SELECTION	BUILT-IN EDID 🔹
AUTO SWITCHING OUTPUT AUDIO SETTINGS	RESOLUTION	2160p 60Hz 444(3840x2160) v
INPUT AUDIO SETTINGS	SIGNAL FORMAT	IDMI DVI
EDID SETTINGS RS232C SETTINGS	FRAME RATE	SOHz SOHz
LAN SETTINGS	DEEP COLOR	24-BIT COLOR 🗸
POWER ON SETTINGS SYSTEM SETTINGS	AUDIO FORMAT	Liner PCM 48kHz v
VIEW STATUS	SINK DEVICE EDID COPY	OUT A (HDMI) : COPY

Note

The copied data can be selected only if valid stored data is available. For how to store the copied data to the IMP-V, see "**Copying EDID of sink device (P.35)**".

Changing supported resolution of built-in EDID

WEB GUI

- 1. Select [MENU]→[EDID SETTINGS].
- 2. Select the input connector.
- 3. Select the resolution format for [RESOLUTION]. (Default: 3840x2160@60Hz 4:4:4)

[MENU]	[EDID SETTINGS]	
CROSS POINT	IN1 IN2	IN3
OUTPUT SETTINGS		
INPUT SETTTINGS	EDID SELECTION	BUILT-IN EDID V
AUTO SWITCHING	0.500.1.570.1	
OUTPUT AUDIO SETTINGS	RESOLUTION	2160p 60Hz 444(3840x2160) V
INPUT AUDIO SETTINGS	SIGNAL FORMAT	HDMI DVI
EDID SETTINGS		
RS232C SETTINGS	FRAME RATE	60Hz SOHz
LAN SETTINGS	DEEP COLOR	24-BIT COLOR 🗸
POWER ON SETTINGS		Liner PCM 48kHz
SYSTEM SETTINGS	AUDIO FORMAT	Liner PCM 48kHz v
VIEW STATUS	SINK DEVICE EDID COPY	OUT A (HDMI) : COPY

Note

If a source device that does not support 4K is connected when the IMP-V's EDID is set to 4K, video may not be output correctly. Change the EDID settings according to the format supported by the source device.

Copying EDID of sink device

WEB GUI

- **1.** Select [MENU] \rightarrow [EDID SETTINGS].
- 2. Click the [COPY] button of [SINK DEVICE EDID COPY].

[MENU]	[EDID SETTINGS]	
CROSS POINT	IN1 IN2	IN3
OUTPUT SETTINGS		
INPUT SETTTINGS	EDID SELECTION	BUILT-IN EDID V
AUTO SWITCHING	RESOLUTION	2160p 60Hz 444(3840x2160) 🗸
OUTPUT AUDIO SETTINGS		
INPUT AUDIO SETTINGS	SIGNAL FORMAT	HDMI DVI
EDID SETTINGS	FRAME RATE	60Hz 50Hz
RS232C SETTINGS	FRAME RATE	
LAN SETTINGS	DEEP COLOR	24-BIT COLOR 🗸
POWER ON SETTINGS	AUDIO FORMAT	Liner PCM 48kHz V
SYSTEM SETTINGS	AUDIO FORMAI	
VIEW STATUS	SINK DEVICE EDID COPY	OUT A (HDMI) : COPY

3. Click the [OK] button.



Automatic Input Switching

This chapter describes how to automatically select connected inputs based on detection of video signal activity.

Configuring automatic input switching

Advanced

The example below shows how to set automatic channel switching for when video signal input is detected and when input video signal disappears.

WEB GUI

- 1. Setting automatic switching to the channel in which input video signal is detected:
 - a) Select [MENU]→[AUTO SWITCHING].
 - **b)** Select the same priority for all inputs for [SIGNAL ON PRIORITY].

[MENU]	[AUTO SWITCHING]						
CROSS POINT							
OUTPUT SETTINGS			:[1				
INPUT SETTTINGS	SIGNAL ON PRIORITY	IN2	: 1	~			
AUTO SWITCHING		IN3	: 1	~			
OUTPUT AUDIO SETTINGS		IN1	: OFF	v]			
INPUT AUDIO SETTINGS			: OFF				
EDID SETTINGS	SIGNAL OFF PRIORITY						
RS232C SETTINGS			: OFF	~			
LAN SETTINGS		INOFF	OFF				
POWER ON SETTINGS	IGNORING DURATION	0	- +	0 - 10s			
SYSTEM SETTINGS							
VIEW STATUS							

- 2. Setting automatic switching to IN1 for when input video signal disappears:
 - a) Select [MENU]→[AUTO SWITCHING].
 - b) Select the priorities [SIGNAL OFF PRIORITY] as follows:

Input	Setting value	Description	
[IN1]	1	The top priority	
Inputs other than IN1	OFF	No priority is set.	

[MENU]	[AUTO SWITCHING]	
CROSS POINT OUTPUT SETTINGS INPUT SETTTINGS AUTO SWITCHING	SIGNAL ON PRIORITY	IN1 : [1 v IN2 : [1 v IN3 : [1 v
OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS EDID SETTINGS RS232C SETTINGS LAN SETTINGS POWER ON SETTINGS SYSTEM SETTINGS VIEW STATUS	SIGNAL OFF PRIORITY	IN1 : 1 • IN2 : OFF • IN3 : OFF • INOFF : OFF • 0 • + 0 - 10s

Tip

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

Automatic input switching – Setting response delay interval

Advanced

If changes in input video signals are detected at short intervals, inputs are switched automatically and continuously. This successive automatic switching can be avoided by setting the change detection interval manually after the auto-input switching is executed.

WEB GUI

- 1. Select [MENU]→[AUTO SWITCHING].
- 2. Set the ignoring duration to temporarily disable input detection after an auto-input switching event has occurred.

[MENU]	[AUTO SWITCHING]		
CROSS POINT OUTPUT SETTINGS	SIGNAL ON PRIORITY	IN1 : 1 IN2 : 1	×)
INPUT SETTTINGS AUTO SWITCHING		IN2 : 1 IN3 : 1	• •
OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS EDID SETTINGS	SIGNAL OFF PRIORITY	IN1 : 1 IN2 : 0 IN3 : 0	
RS232C SETTINGS LAN SETTINGS POWER ON SETTINGS	IGNORING DURATION	INOFF : 0	
SYSTEM SETTINGS VIEW STATUS			

Tip

Only basic menus are displayed by default. To display advanced menus as well, perform the procedure in "Advanced menu (P.18)".

RS-232C/LAN Communication

This chapter describes how to configure communication for the IMP-V.

Configuring RS-232C communication

WEB GUI

- 1. Select [MENU]→[RS-232C SETTINGS].
- 2. Configure the following items: [BAUD RATE], [DATA BIT LENGTH], [PARITY], [STOP BIT]

[MENU]	[RS232C SETTINGS	;]		
CROSS POINT OUTPUT SETTINGS	BAUD RATE	9600bps	~	
INPUT SETTTINGS	DATA BIT LENGTH	8	~	
AUTO SWITCHING	PARITY	NONE	~	
OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS	STOP BIT	1	~	
EDID SETTINGS				
RS232C SETTINGS				
LAN SETTINGS				
POWER ON SETTINGS				
SYSTEM SETTINGS				
VIEW STATUS				

Тір

By default, RS-232C communication is configured as follows:

Baud rate: 9600 bpsData bit length: 8 bitsParity check: NONEStop bit: 1 bit

Configuring LAN communication

WEB GUI

- **1.** Select [MENU] \rightarrow [LAN SETTINGS].
- 2. Configure the following items: [IP ADDRESS], [SUBNET MASK], [GATE WAY]

[MENU]	[LAN SETTINGS]		
CROSS POINT	IP ADDRESS	192 168 2 14 SET	
OUTPUT SETTINGS INPUT SETTTINGS			
AUTO SWITCHING	SUBNET MASK	255 255 255 0 SET	
OUTPUT AUDIO SETTINGS	GATEWAY	192 168 1 200 SET	
INPUT AUDIO SETTINGS	MAC ADDRESS	00-08-e5-71-ff-f6	
EDID SETTINGS	AUTO DISCONNECT	DISCONNECT V 30	- + 1 - 180s
RS232C SETTINGS			
LAN SETTINGS			
POWER ON SETTINGS			
SYSTEM SETTINGS			
VIEW STATUS			

Note

From an external device to the IMP-V: Up to eight connections

Тір

Bydefault, LAN communication is configured as follows:

 IP address
 : 192.168.1.199

 Subnet mask
 : 255.255.255.0

 Default gateway
 : 192.168.1.200

 TCP port
 : 1100 (Fixed)

Viewing Status

This chapter describes how to view I/O signal and EDID states of sink devices. If video or audio cannot be displayed, check signal status using these features.

Viewing input signal status

WEB GUI

- 1. Select [MENU]→[VIEW STATUS].
- 2. Select [OUTPUT/INPUT].
- 3. Select [INPUT STATUS].

[MENU]	[VIEW STATU	S] OUTPO	JT/INPUT HARDWARE			
CROSS POINT OUTPUT SETTINGS	OUTPUT STATUS	SINK DEVICE INPUT STATUS EDID]			
INPUT SETTTINGS AUTO SWITCHING OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS EDID SETTINGS RS232C SETTINGS LAN SETTINGS		VIDEO STATUS RESOLUTION HDMI/DVI HOCP AUTHENTICATION COLOR SPACE DEEP COLOR COLOR RANGE	: IN1 : 3840x2160p 59.94Hz : HDMI Mode : Not Encrypted : RGB : 8 bpc : Limited	IN2 UNSELECTED	IN3 UNSELECTED	
POWER ON SETTINGS SYSTEM SETTINGS	INPUT STATUS	AUDIO STATUS	: IN1	IN2	IN3	
VIEW STATUS		FORMAT SAMPLING FREQUENCY CHANNEL	: Linear PCM : 48kHz : 2 Channel	UNSELECTED	UNSELECTED	
		SPEAKER BITLENGTH	: FL FR : 24 bit			

Tip

Input signal status of only the selected input channel is displayed. For other input channels, [UNSELECTED] is displayed.

Viewing output signal status

WEB GUI

- 1. Select [MENU]→[VIEW STATUS].
- 2. Select [OUTPUT/INPUT].
- 3. Select [OUTPUT STATUS].

[MENU]	[VIEW STATUS	5]	ΟυΤΡυ	T/INPUT HARDWARE
CROSS POINT OUTPUT SETTINGS	OUTPUT STATUS	SINK DEVICE EDID	INPUT STATUS	
INPUT SETTTINGS		VIDEO	STATUS	: OUT A
AUTO SWITCHING		RESOL	UTION	: 3840x2160p 59.94Hz
OUTPUT AUDIO SETTINGS		HDMI/	DVI	: HDMI Mode
INPUT AUDIO SETTINGS		HDCP /	AUTHENTICATION	: Not Encrypted
EDID SETTINGS		COLOR	R SPACE	: RGB
RS232C SETTINGS		DEEP C	COLOR	: 8 bpc
LAN SETTINGS	OUTPUT STATUS	COLOR	RANGE	: Limited
POWER ON SETTINGS				
SYSTEM SETTINGS		AUDIO	STATUS	: OUT A
VIEW STATUS		FORMA	NT	: Linear PCM
		SAMPL	ING FREQUENCY	: 48kHz
		CHANN	NEL	: 2 Channel
		BIT LE	NGTH	: 24 bit
				: HDMI OUT A
	ERROR STATUS	VIDEO	ERROR	
		DIGIT	al audio error	

Note

For some sink devices, different signals from the IMP-V's output setting may be output.

Viewing sink device EDID

This feature is useful for checking the optimal resolution and audio format.

WEB GUI

- 1. Select [MENU]→[VIEW STATUS].
- **2.** Select [OUTPUT/INPUT].
- 3. Select [SINK DEVICE EDID].

[MENU]	[VIEW STATUS	1	OUTPU	T/INPUT HARDWARE
CROSS POINT OUTPUT SETTINGS	OUTPUT STATUS	SINK DEVICE EDID	INPUT STATUS	
INPUT SETTTINGS AUTO SWITCHING OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS EDID SETTINGS RS232C SETTINGS LAN SETTINGS POWER ON SETTINGS SYSTEM SETTINGS UIEW STATUS	Sink device edid	Resol HDMI, Colo Deep PCM F PCM E PCM C	TOR NAME LUTION /DVI R SPACE COLOR REQUENCY 8IT LENGTH JHANNEL RESSED AUDIO	: OUT A : LCD-W44K282X : 3840x2160 594.00MHz : HDMI mode : RGB/YCbCr444/422/420 : 0/10/12 bpc : 32/41.1/48Htz : 12/20/24 bit : 12/20/24 bit : 2CHANNEL : Not Supported

Backup and Restore

This chapter describes how to back up and restore settings.

All settings can be stored to a PC as a backup file via a WEB browser. The backup file can also be used to copy settings to other IMP-V devices.

Backing up settings

WEB GUI

- 1. Select [MENU]→[SYSTEM SETTINGS].
- 2. Click the [BACK UP] button of [BACKUP/RESTORE].

[MENU]	[SYSTEM SETTINGS]					
CROSS POINT						
OUTPUT SETTINGS	ADVANCED MENU	OFF	ON			
INPUT SETTTINGS						
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING				
INPUT AUDIO SETTINGS		OFF	ON		1 - 100s	
EDID SETTINGS	AUTO UPDATE TIME	OH	014	0 - +	1 - 100s	
RS232C SETTINGS		BACKUP				
LAN SETTINGS POWER ON SETTINGS	BACKUP/RESTORE					
SYSTEM SETTINGS		Choose File imp-v31u.id	RESTORE			
VILW STATUS	• <mark>•</mark>	NORMAL	ALL			
	INITIALIZATION		TIALIZATION			
	.L					

3. Select [OK].

192.168.2.14 says		
Do you want to save backup data?		
	ОК	Cancel

Notes

- A backup file is stored in IDM format.
- Settings of "Enabling WEB GUI login (P.24)" are not saved.

Restoring settings from backup file

WEB GUI

- 1. Select [MENU]→[SYSTEM SETTINGS].
- 2. Click the [Choose File] button of [BACKUP/RESTORE].
- **3.** Select the file.
- 4. Click the [RESTORE] button.

[MENU]	[SYSTEM SETTINGS]					
CROSS POINT						_
OUTPUT SETTINGS	ADVANCED MENU	OFF	ON			
INPUT SETTTINGS						
AUTO SWITCHING	LOGIN SETTING	LOGIN SETTING				
OUTPUT AUDIO SETTINGS INPUT AUDIO SETTINGS						
EDID SETTINGS	AUTO UPDATE TIME	OFF	ON	0 - +	1 - 100s	
RS232C SETTINGS						
LAN SETTINGS		BACKUP				
POWER ON SETTINGS	BACKUP/RESTORE	Choose File imp-v31u.idm	RESTORE			
SYSTEM SETTINGS			IL TICTORE			
VILW STATUS		NORMAL	ALL			
	INITIALIZATION	INITIALIZATION INITI	IALIZATION			

5. Click [OK].

When the restoring is completed, the IMP-V reboots.

192.168.2.14 says		
Do you want to restore?		
	ок	Cancel

Note

Do not power off the IMP-V during the restoring process. The settings may be deleted.

Initialization

This chapter describes how to restore settings to factory-installed defaults.

Initializing all settings

Front Panel

- 1. Press and hold the OFF button to boot the IMP-V.
- 2. LEDs other than POWER blink while settings are initialized.
- 3. Release the OFF button.

WEB GUI

- 1. Select [MENU]→[SYSTEM SETTINGS].
- 2. Click the [ALL INITIALIZATION] button of [INITIALIZATION].

[MENU]	[SYSTEM SETTINGS]					
CROSS POINT						
OUTPUT SETTINGS	ADVANCED MENU	OFF	ON			
INPUT SETTTINGS						
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING				
INPUT AUDIO SETTINGS		OFF	ON			
EDID SETTINGS	AUTO UPDATE TIME	OFF	UN	0 -	+ 1 - 100s	
RS232C SETTINGS		BACKUP				
LAN SETTINGS	BACKUP/RESTORE					
POWER ON SETTINGS	-	Choose File No file c	hosen	1E		
SYSTEM SETTINGS						
VILW STATUS	INITIALIZATION	NORMAL INITIALIZATION	ALL			
		INTIALIZATION	INTIALIZATION			

Notes

- Do not power off the IMP-V during initialization. The initialization process may not be completed correctly.
- Settings of "Enabling WEB GUI login (P.24)" are initialized only by issuring @CLR command.

Initializing settings other than LAN/RS-232C configurations

WEB GUI

- **1.** Select [MENU] \rightarrow [SYSTEM SETTINGS].
- 2. Click the [NORMAL INITIALIZATION] button of [INITIALIZATION].

[MENU]	[SYSTEM SETTINGS]					
CROSS POINT						
OUTPUT SETTINGS	ADVANCED MENU	OFF	ON			
INPUT SETTTINGS						
AUTO SWITCHING OUTPUT AUDIO SETTINGS	LOGIN SETTING	LOGIN SETTING				
INPUT AUDIO SETTINGS			ON			
EDID SETTINGS	AUTO UPDATE TIME	OFF	ON	0	1 - 100s	
RS232C SETTINGS		and the second se				
LAN SETTINGS	BACKUP/RESTORE	BACKUP				
POWER ON SETTINGS		Choose File No file chose	en RESTORE			
SYSTEM SETTINGS						
VILW STALUS	INITIALIZATION	NORMAL INITIALIZATION INIT	ALL			
		INITIALIZATION INIT	TAEIZATION			

Note

Do not power off the IMP-V during initialization. The initialization process may not be completed correctly.

Troubleshooting

This chapter provides recommendations in case difficulties are encountered during IMP-V setup and operation.

In case the IMP-V does not work correctly, please check the following items first.

- Are the IMP-V and all devices connected to an active power source and are they powered on?
- · Are signal cables connected correctly?
- · Are there any loose or partially mated connections?
- · Are the interconnecting cables specified correctly to support adequate bandwidth?
- · Are specifications of connected devices matched to each other?
- · Are configuration settings for the connected devices correct?
- · Is there any nearby equipment that may cause electrical noise/RF interference?

Use the IMP-V built-in status display features to check for input signal presence and format. Also use the status display features to check for the presence of connected sink devices as well as for EDID and HDCP compatibility.

If difficulties persist, please refer to the peripheral device manuals as well, since connected equipment may be the cause of the trouble.

If the trouble persists, please contact us after checking the following items.

- · Does the problem occur with all the signal connectors?
- Does the problem occur when you connect the source and display devices directly, bypassing the IMP-V?

HDMI/USB-C Switcher

IMP-V31U

Operation Guide



USA

IDK America Inc

72 Grays Bridge Road Suite 1–C, Brookfield, CT 06804, United States TEL: +1-203-204-2445 Email: sales@idkav.com

vww.idkav.com

Europe

IDK Europe GmbH Lise-Meitner-Str. 6, D-40878 Ratingen, Germany TEL: +49-2102-578-301-0 Email: info@ idkav.eu

Headquarters

IDK Corporation

7-9-1 Chuo, Yamato, Kanagawa, 242-0021, JAPAN TEL: +81-46-200-0764 FAX: +81-46-200-0765 Email: idk_eng@idk.co.jp

Vietnan

IDK Corporation Vietnam Hanoi Representative Office TEL: +84-247-108-6866 Email: info_en@idk.co.ip DK Corporation Vietnam 1o Chi Minh Representative Office "EL: +84-28-7108-8954 Imail: info.en@idk.co.in