





**OPERATING INSTRUCTIONS V0.2** 

### INTRODUCTION

#### FOR THE CUSTOMERS IN U.S.A

#### **CAUTION:**

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

#### **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 or her own expense

#### For the customers in Canada

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

#### For the European customers only

The crossed out wheeled bin label that can be found on your product indicates that this product should not be disposed of via the normal household waste stream. To prevent possible harm to the environment or human health please separate this product from other waste streams to ensure that it can be recycled in an environmentally sound manner. For more details on available collection facilities please contact your local government office or the retailer where you purchased this product.

This information only applies to customers in the European Union, according to Directive 2002/96/ EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 27 January 2003 on waste electrical and electronic equipment (WEEE) and legislation transposing and implementing it into the various national legal systems. For other countries, please contact your local government to investigate the possibility of recycling your product.

This product does not connect to an antenna. This product is not a receiver. This product is purpose for video data transformation. This product has HDMI, but audio data does not output.

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are either trademarks or registered trademarks of HDMI Licensing, LLC.

## INTRODUCTION

VIDENTE does not guarantee the operation of this product used in the network configurations other than those specified in this manual.

- 1. The product and product specifications described in this document are subject to change without notice due to reliability, function, and improvements in design.
- 2. This document, in whole or in part, may not be reprinted or copied without direct permission from VIDENTE.
- 3. VIDENTE does not assume responsibility for any damage, direct or indirect, caused by the use of this product.
- 4. This document does not authorize the use of patent or any other rights of VIDENTE or any third party.
- 5. Proper names mentioned in this document, such as the name of products, are registered trademarks of each manufacturer.

## INTRODUCTION

Before using this product, carefully read this manual to thoroughly understand how to set up and use IS-mini 4K. Follow the Safety Precautions during use. After reading this manual, keep it in location where it can be easily accessed when needed.

#### **For Safe Use**

This product has been manufactured with special attention to safety. However, since this is an electrical product, misuse may result in fire or electric shock, which may lead to death or severe injury. Please follow the precautions in this manual and use the product as directed.

#### In Case of Failure, Discontinue Use

In case of a failure with the product, discontinue use, and contact the service center or a sales staff.

#### **In Case of Abnormality**

In Case of Smoke, Abnormal Smell, or Abnormal Noise

Immediately unplug the AC adapter and disconnect the AC adapter from the electrical outlet. Disconnect any other electrical cables connected to the electrical outlet, and contact the service center.

#### In Case of Fire

Immediately unplug the AC adapter and disconnect the AC adapter from the electrical outlet, or trip the breaker, and quickly extinguish the fire.

Then, contact the service center promptly.

#### **Warranty of This Product**

A written warranty containing information regarding repair service and warranty regulations are attached to this product. Thoroughly read and verify the contents, and keep this warranty in a secure place.

In the event of an accident within the terms of this warranty, repairs will be made according to the warranty regulations.

#### **Application to Radio Frequency Regulation**

This product is for business purposes, and is not subject to radio frequency regulations. Radio frequency regulations do not apply.

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## **01.1\_Meaning of the Warning Signs**

This user manual uses the following warning and caution signs for the safe use of this product. Please thoroughly understand the signs before reading this manual.



#### **WARNING**

Ignoring this warning or the misuse of this product may result in death or severe injury.



#### **CAUTION**

Ignoring this warning or the misuse of this product may result in injury or property damage.



#### **FIRE HAZARD**

Ignoring this warning may result in fire.



#### **ELECTRICAL HAZARD**

Ignoring this warning or the misuse of this product may result in electrical shock.



#### DO NOT DISASSEMBLE OR MODIFY

Disassembly of the product is prohibited in order to avoid electrical shock or failure of the product.



#### **SPECIFIC ACTIONS**

Actions are specified to ensure safety.



#### **PROHIBITED ACTIONS**

Specific actions are prohibited in order to avoid an electrical shock, failure of the product, or injury.

## 01.2\_Precautions during Use



#### DO NOT DISASSEMBLE OR MODIFY

Do not disassemble or modify the product, unless directed in this manual. To do so may result in injury, electrical shock, fire, or failure of the product.



#### DO NOT INSERT OR DROP OBJECT INTO THE PORTS

Do not insert or drop any metal or flammable objects into the intake or exhaust ports. This may result in electrical shock, fire, or failure of the product.



#### **USE UNDER NORMAL CONDITIONS**

In the event a foreign object or liquid such as water gets inside the product, or internal condensation builds up, stop using it. This may result in electrical shock, fire, or failure of the product.



#### **FOLLOW THE INSTRUCTIONS**

Only use this product in the manner directed in this manual. Misuse may result in electrical shock, fire, or failure of the product.

## **01.3\_Precautions regarding the Power Supply**



#### **USE UNDER THE CORRECT AC ADAPTER AND VOLTAGE**

Do not use an AC adapter and voltage other than those specified for the product.

Otherwise, an electrical shock, fire, or failure of the product may result.

#### DO NOT DAMAGE THE AC ADAPTER



Avoid the following when handling the AC adapter as they may result in electrical shock, fire, or failure of the product.

- Modify or damage the AC adapter.
- Place heavy objects on the AC adapter.
- Forcefully bend, twist, or pull the AC adapter.
- Heat, or place the AC adapter near a heating source.
- Handle the AC adapter with wet hands.
- Use a damaged AC adapter.

## 01.4\_Precautions regarding Installation and Transport



## DO NOT INSTALL UNDER CONDITIONS WHICH MAY RESULT IN FAILURE OF THE PRODUCT

This product is manufactured with precision electronic components. Do not install or store in the following places, as these may result in malfunction or failure of the product. Also, if the product is not to be used for a long period, store it in the original package after use.

- In direct sunlight
- In a dusty place
- In a place with highly variable temperature or humidity
- Near fires
- In a wet place
- Near volatile materials
- · Near an air conditioner or heater
- In a place exposed to shock, vibration, magnets or static electricity



#### **INSTALL IN A STABLE AREA**

If the product is installed in an unstable area, it may fall, resulting in injury or failure of the product.



#### **NEED THE AIR VENTILATION**

This product does not have a fan for cooling. Air should be well ventilated around the product and temperature should remain within operating temperature range.



## IF THE PRODUCT IS NOT TO BE USED FOR A LONG PERIOD, DISCONNECT THE ELECTRICAL PLUG FROM THE ELCTRICAL OUTLET

If the product is not to be used for a long period, disconnect the electrical plug from the electrical outlet for safety.



## DISCONNECT ALL THE CABLES AND THE ELECTRICAL PLUG BEFORE MOVING

Before moving this product, be sure to turn off the power, and disconnect the electrical plug from the outlet as well as all cables. Otherwise, the cable may entangle a person's feet, resulting in injury.

## 01.4\_Precautions regarding Installation and Transport



#### **USE CARE WHEN TRANSPORTING**

This product is heavy. Carry with great care, firmly holding it from the bottom. Do not carry alone, as this may result in backache or dropping of the product, causing injury.

Also, turning the product upside down or on its side during transport may result in failure.



## DISCONNECT THE AC ADAPTER BEFORE WIRING OF CLEANING

Wiring or cleaning without disconnecting the AC adapter may result in electrical shock.

## **01.5\_Precautions during Cleaning**



## REGULARLY DISCONNECT THE AC ADAPTER FROMT THE OUTLET AND CLEAN

Regularly disconnect the AC adapter from the outlet and clean the base pins and the space between them.

If the AC adapter is left connected to the outlet for a long period, dust may accumulate at the base pins and may result in fire due to short circuit.



#### TURN OFF THE POWER BEFORE WIRING OR CLEANING

Wiring or cleaning with the power on may result in electrical shock.

### 02.1\_Installation Conditions

#### **CAUTION**



Pay special attention to the installation conditions. Installation and long-term use of the product in highly variable temperatures, dusty, or high humidity may result in failure of the product.

#### 1. Temperature

Operating Temperature: 0 to 40°C (No condensation) Storage Temperature: -20 to 70°C (No condensation)

#### 2. Humidity

Operating Humidity: 0 to 80% RH (No condensation) Storage Humidity: 0 to 95% RH (No condensation)

#### 3. Installation Conditions

Install this product on a stable area.

Leave a space 15cm or more at top and side for the air ventilation.

Air should be well ventilated around the product and temperature should remain within operating temperature range.

Do not jolt the product while in operation.

Especially, do not install under the following conditions.

- In direct sunlight
- In a dusty place
- In a place with highly variable temperature or humidity
- Near fires
- In a location where it is likely to get wet
- Near volatile materials
- Near an air conditioner or heater
- In a place exposed to shock, vibration, magnets, or static electricity

#### 4. AC adapter

Please use this product with blow listed AC adapter.

• LITEON AC/DC Adapter Model No.:PA-1041-0 (Package include)

## 02.2\_Unpacking

## **SPECIFIC ACTIONS**



Use the packing materials for the product or those with equivalent or higher quality, while transporting.

#### **WARNING**



Do not put heavy materials on this product, as this may result in failure or damage.

Transport the product still packed, and unpack on a level place near the installation site.

#### 1. Check the contents

Before installation, confirm that a complete set of the following items have been packed. In the event any item is missing, contact a member of the sales staff.

#### [CONTENTS]

1) IS-mini 4K: main unit×1

Size:  $130 \times 91 \times 36$  mm (W × D × H) (not including projections)

Weight: 0.5Kg / 1.1lbs (excluding cables)

- 2) AC adapter  $\times$  1
- 3) POWER CABLE × 1
- 4) USB Cable ×1







**AC ADAPTER** 



**POWER CABLE** 



**USB CABLE** 

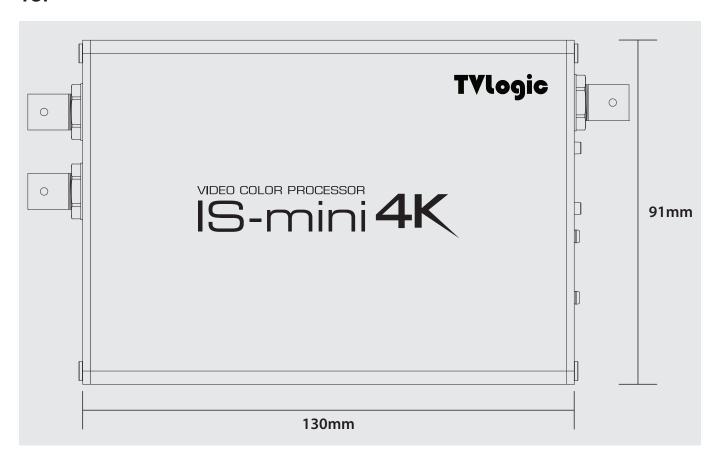
#### Note: Do not throw away the packing material.

When transporting IS-mini 4K, packing cartons and cushioning materials are required. Keep the original material for future use.

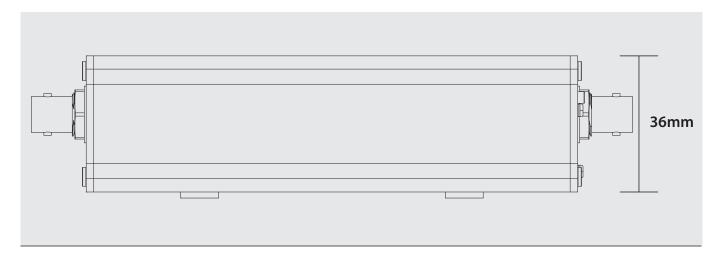
## 02.3\_Main Unit

#### **External Dimensions (Unit: mm)**

#### **TOP**

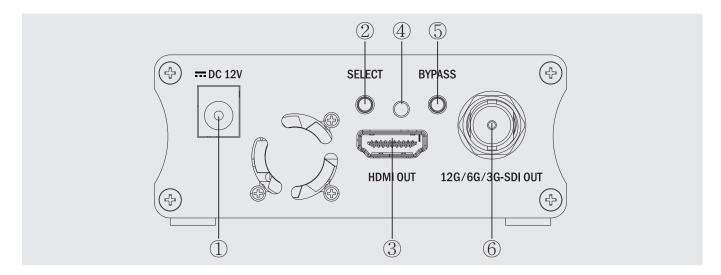


#### **FRONT**



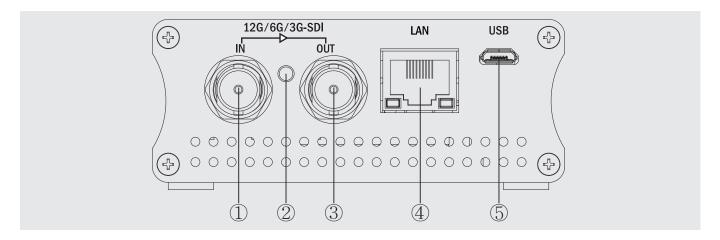
## 02.4\_Name and Function of Each Part

#### **LEFT SIDE**



- ① Main Power Source Connector
- ② Bypass button (\*Note: Video Output will be bypassed while the button pushed.)
- ③ HDMI Video Output Connector (\*Note: No audio data will be outputted.)
- 4 HDMI Output Indicator (Flashing: No Video Out / Lighting: Video out)
- ⑤ Function button
- ⑤ SDI Video Output Connector

#### **RIGHT SIDE**



- 1) SDI Video Input Connector
- ② SDI Input Indicator (Flashing: Video Unlocked / Lighting: Video Locked)
- ③ SDI Through Output Connector
- 4 Ethernet Interface Connector
- (5) USB mini Port

## 02.5.1\_Connecting and Disconnecting Cables

#### **CAUTION**

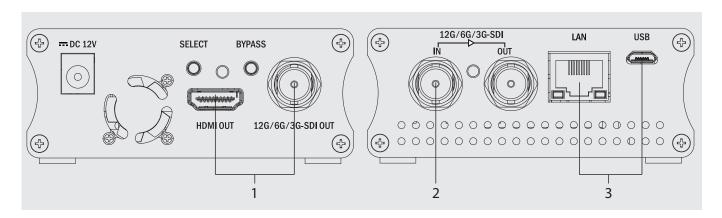


Before operation, be sure that the AC adapter is unplugged. Not doing so may result in electrical shock or injury.

## ELECTRICAL HAZARD



Do not operate with wet hands, as this may result in electrical shock or failure of the product.



#### 1. Output of SDI Video Output Cable or HDMI Video Output Cable(Depends on use)

- Connect the SDI Video Output Connecter or SDI Supported Monitor with a BNC75 $\Omega$  coaxial cable.
- Connect the HDMI Video Output Connecter or HDMI Supported Monitor with HDMI cable.

#### 2. Input of SDI Cable

• Connect devices such as cameras or SDI Video Input Connecter with a BNC75 $\Omega$  coaxial cable.

#### 3. Connecting the USB Cable or the Ethernet Cable (Depends on use)

- (Do not connect both Ethernet and USB cable simultaneously.)
- Connect PC with the USB Cable.
- Connect networking devices with an RJ45 type LAN cable

## 02.5.2\_Connecting the Electrical Cable

## ELECTRICAL HAZARD

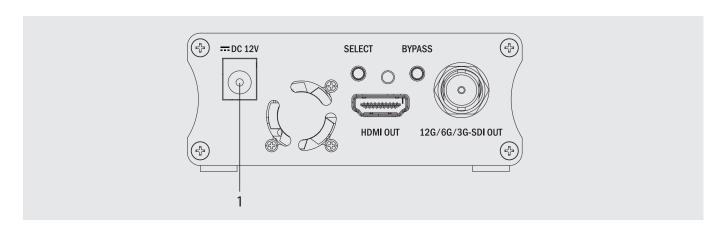


Never touch the power supply unit with wet hands, as this may result in electric shock.

#### FIRE HAZARD



Converting the power supply voltage with the electrical plug connected to the outlet may result in fire



1. Connect the AC adapter to the DC-IN connector.

## 02.5.2\_Disconnecting Cables

#### **WARNING**



Before operation, be sure that the main power source switch on the back is OFF. Not doing so may result in electrical shock or injury.

#### ELECTRICAL HAZARD



Do not operate with wet hands, as this may result in electrical shock or failure of the product.

- 1. Unplug the AC adapter.
- 2. Disconnect the LAN cables or USB cables, if connected.
- 3. Disconnect the SDI Input / Output Cable or HDMI cables, if connected.

# 03 USING IS-MINI 4K 03.1\_Starting

- 1. Be sure that AC adapter is correctly connected.
- 2. Be sure that the video status indicator is lit.
- 3. Be sure that the all cables are correctly connected.

# 03 USING IS-MINI 4K 03.2\_Shutdown

#### **CAUTION**



If the product is not to be used for a long period, unplug the AC adapter and disconnect all cables, if connected.

- 1. Disconnect the video cables, if connected.
- 2. Disconnect AC adapter.
- 3. Confirm that the video status indicator is off.

# **04 MAINTENANCE 04.1\_Cleaning**

#### **CAUTION**



Do not use organic solvents (benzene, acetone, etc.), which may deform plastic. Also, be sure that no liquid such as solvent gets inside the product

1. Regularly wipe any dust off the product with a piece of soft cloth.

## 04 MAINTENANCE 04.2\_Regular Checking

#### **CAUTION**



Before checking, unplug the AC adapter and confirm that the product is not in operation.

- 1. Check the following every six months.
  - Remove any dirt or dust in the connectors.
  - Check for any damage at the connectors.

## **04 MAINTENANCE 04.3\_Warranty period**

Warranty period is 2 years

## 05 SPECIFICATIONS

## **05.1\_Product Specifications**

Item	Specifications				
Туре	Video Color Processor				
Model	IS-mini 4K				
Interface	USB2.0				
interiace	LAN 10/100/1000 Base-T				
CDUlpput	BNC Connecter ×1				
SDI Input	1 system input				
SDI Output	BNC Connector x 2 / 1 x Loop through / 1 x output				
HDMI Output	HDMI Connector ×1 (Supported HDMI 2.0)				
HDMI Output	(No audio signal output)				
External Dimensions	130 mm(W) × 91 mm(D) × 35 mm(H)				
Device Weight	0.5kg / 1.1 lbs (excluding cables)				
Power Supply Voltage	DC 12V				
Power Consumption	21.6W				

# **05 SPECIFICATIONS 05.1 Supported Formats**

Interface	Video Standard	Sampling Structure / Bit Depth	Frame	Line samples	Field Rate( Hz)
HD-SDI	SMPTE 274	4:2:2 Y' Cb' Cr' 10-bit	1080p	1920	23.98, 24, 25, 29.97, 30
			1080i		50, 59.94, 60
SMPTE 292			1080PsF		23.98, 24, 25, 29.97, 30
	SMPTE 2048-2	4:2:2 Y' Cb' Cr' 10-bit	1080p	2048	23.98, 24, 25, 29.97, 30
	SMPTE 274	4:2:2 Y' Cb' Cr' 10-bit	1080p	1920	50, 59.94, 60
			1080p		23.98, 24, 25, 29.97, 30
			1080i		23.98, 24, 25, 29.97, 30
			080PsF		50, 59.94, 60
3G-SDI Level a		RGB 10bit	1080p		23.98, 24, 25, 29.97, 30
SMPTE 425-A			1080i		50, 59.94, 60
			1080PsF		23.98, 24, 25, 29.97, 30
	SMPTE 2048-2	4:2:2 Y'Cb'Cr'10-bit	1080p	2048	47.95, 48, 50, 59.94, 60
		4:4:4 Y' Cb' Cr' 10-bit or RGB 10bit	1080p		23.98, 24, 25, 29.97, 30
			1080PsF		23.98, 24, 25, 29.97, 30
	SMPTE 274	4:4:4 Y' Cb' Cr' 10-bit	1080p	1920	23.98, 24, 25, 29.97, 30
			1080i		50, 59.94, 60
3G-SDI Level B-DL			1080PsF		23.98, 24, 25, 29.97, 30
SMPTE 425 B-DL	SMPTE 2048-2	4:2:2 Y'Cb'Cr'10-bit	1080p	2048	47.95, 48, 50, 59.94, 60
		4:4:4 Y' Cb' Cr' 10-bit or RGB 10bit	1080p		23.98, 24, 25, 29.97, 30
			1080PsF		23.98, 24, 25, 29.97, 30
6G-SDI	SMPTE 2081/ 4:2:2	Y'Cb'Cr'10-bit	2160p	3840	23. 98, 24, 25, 29.97, 30
12G-SDI	SMPTE 2082 / 4:2:2	Y'Cb'Cr'10-bit	2160p	3840	95, 48, 50, 59.94 , 60

## **06 TROUBLESHOOTING**

- 1. If no image is displayed on the connected monitor, check the following.
  - 1) Is the IS-mini 4K turned on and operating?
  - 2) Is the SDI input/output cable connected to the IS-mini 4K properly?
- 2. If the operation of the IS-mini 4K is abnormal, perform the following.
  - 1) Unplug the AC adapter of the IS-mini 4K and reconnect it.
- 3. If the IS-mini 4K cannot be turned on, check the following.
  - 1) Is the AC adapter connected properly?
  - 2) Is electricity supplied to the outlet?

