



Product introduction

- **C1 UHD Signal Converter**

DigitalZone Co., Ltd.

C1+ : Product Introduction

- 12G SDI Input and Output
- HDMI 2.0a Input and Output
- Dual Scaler Included
- Signal Conversion
- LCD Preview and Touch Control
- Built-In Web Server

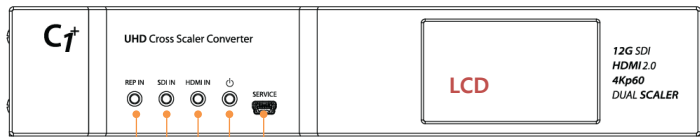
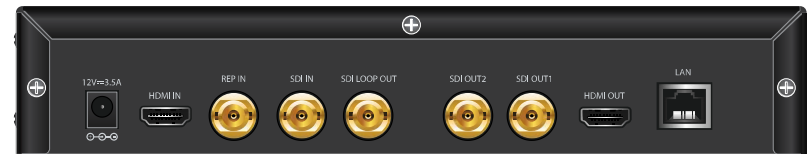
C1+ : Product View

▪ C1+ UHD Cross Converter , HVC-21CC

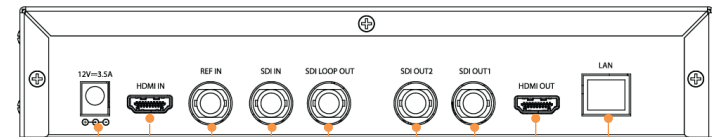
Front View



Rear View



REF IN SDI IN HDMI IN POWER SYSTEM



DC Power In FEF IN SDI Loop Out SDI Out 1 Ethernet
HDMI IN SDI IN SDI Out 2 HDMI Out

▪ H/W Specification

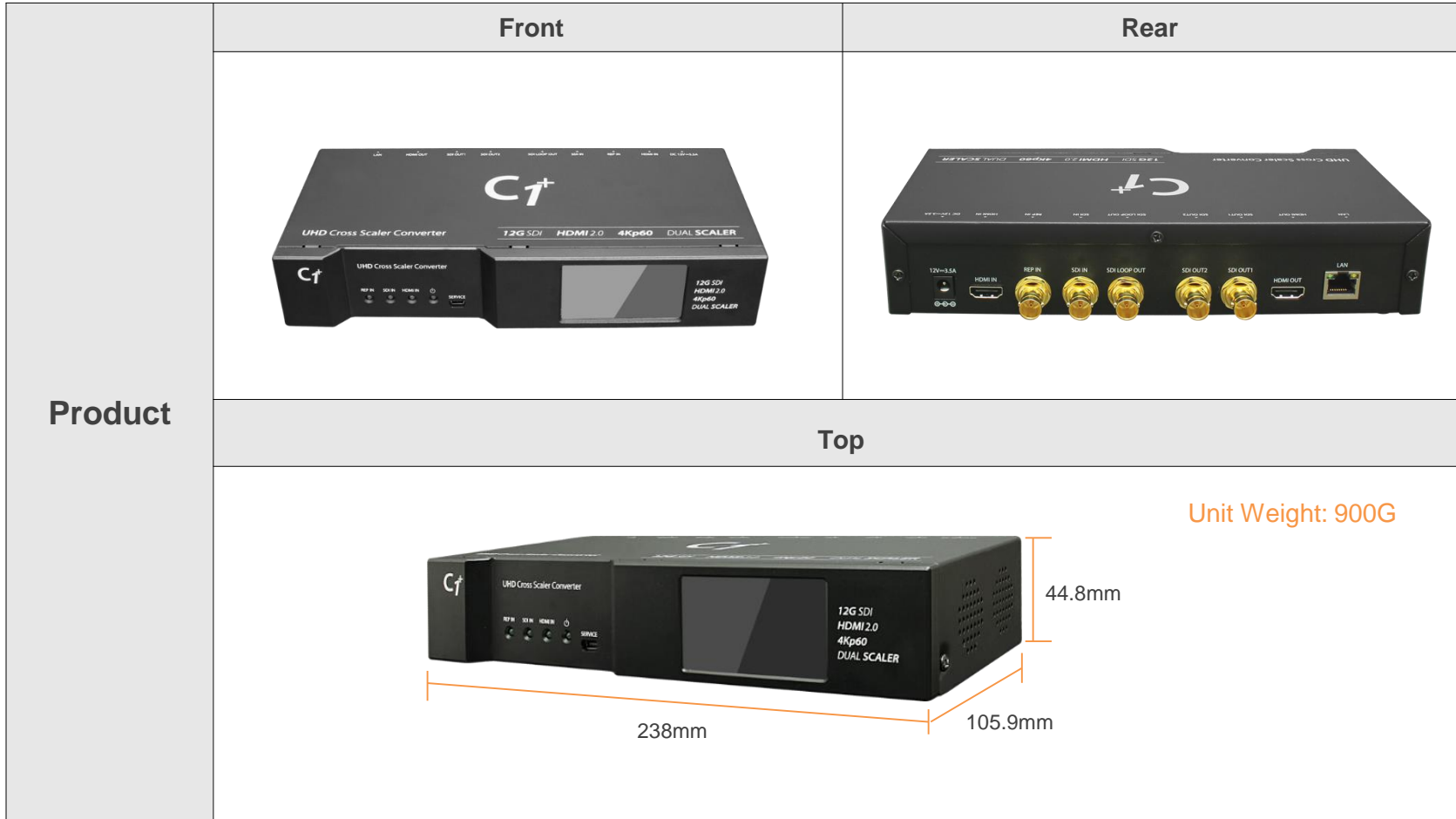
Item		Type	Q'ty	Spec
Input	SDI	BNC	1	12G SDI
	HDMI	A	1	HDMI 2.0a
Output	SDI	BNC	2	12G SDI
	SDI Loop Out	BNC	1	12G SDI
	HDMI	A	1	HDMI 2.0a
UI		LCD + Touch	1	2.7" LCD + Capacitive Touch
Network		Ethernet RJ45	1	10/100Mbps
Power		DC-Jack	1	12V / 3.5A (TBD) Locking Type

▪ S/W Specification

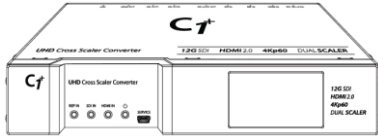
Item	Spec	Notes
Resolutions	720p, 1080i, 1080p, 2160p	
Frame Rate	23.98, 24, 25, 29.97, 30, 50, 59.94, 60	
Up/Down Scaling	Any Resolution -> Any Resolution	
Frame Rate Conversion	Any Rate -> Any Rate	
Firmware Upgrade	Yes	Built-in Web Server using Ethernet
Preview Monitoring	Yes	Front 2.7" LCD
Status Monitoring	Yes	- Built-in Web Server - Front LCD
Control	Yes	- Built-in Web Server - Front LCD GUI



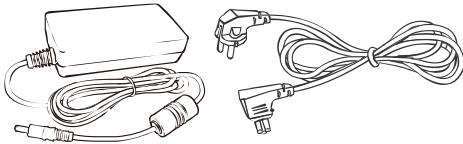
Package Information



C1+ : Package



C1+ UHD Cross Converter

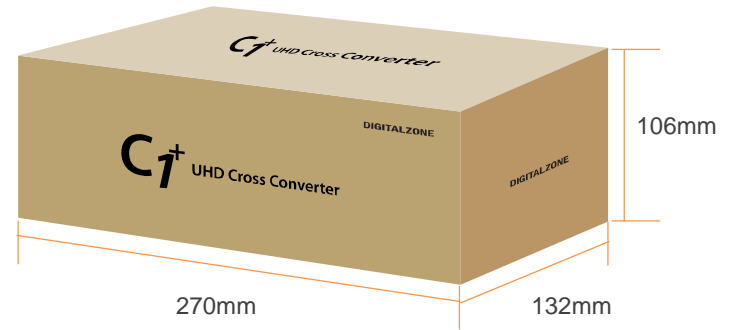


Adaptor & Power Code



User's Manual

Package Weight: 1.5 KG



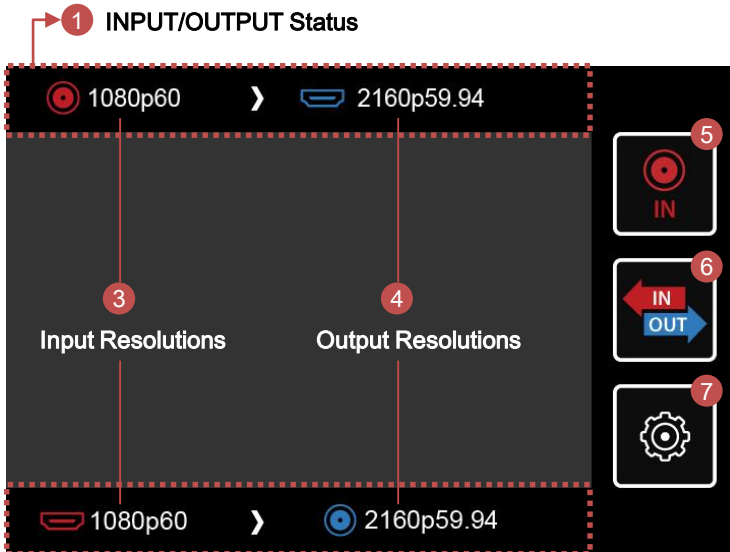


Special Features

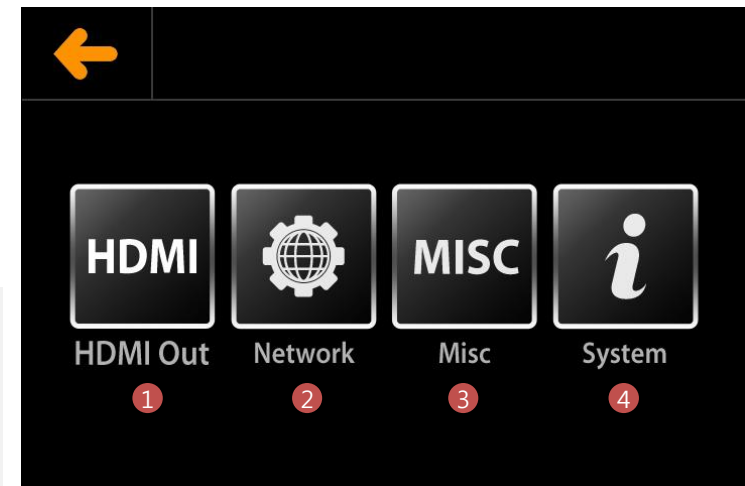
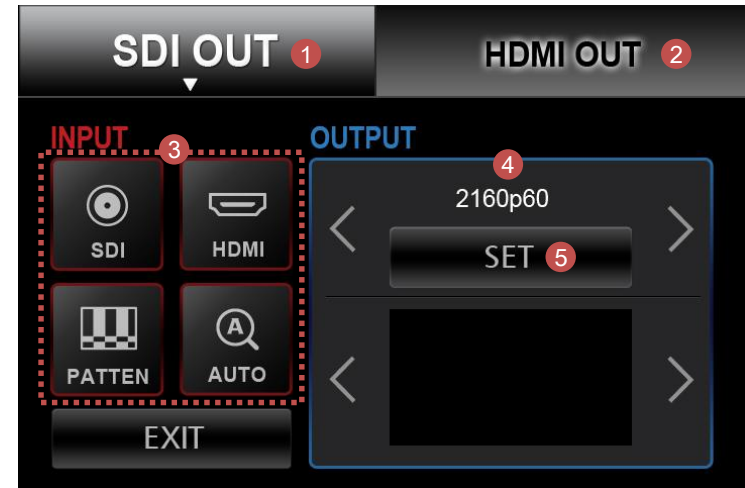
C1+ : Supporting 12G SDI and HDMI 2.0a

- 12G SDI Input & Output
 - ✓ Support HD, 3G Level A/B, 6G, 12G
- HDMI2.0a Input & Output
 - ✓ Support up to 3840 x 2160@60p
- Dual Scaler included
 - ✓ Support SDI and HDMI outputs with independent resolutions
 - ✓ Convert resolutions and frame rates
- Cross Conversion
 - ✓ SDI to HDMI and HDMI to SDI
- LCD Preview and Touch Control
 - ✓ Monitor inputs and outputs
 - ✓ Graphic User Interface and Touch Control
- Built-in Web Server
 - ✓ Monitor and Control inputs and outputs settings
 - ✓ Firmware update

C1+ : LCD Preview and Touch Control



- | | |
|-----------------------------|---|
| 1. INPUT/OUTPUT Status | Top GUI shows HDMI Output related settings |
| 2. INPUT/OUTPUT Status | Top GUI shows SDIOutput related settings |
| 3. Input Resolutions | Show the resolutions of input signals |
| 4. Output Resolutions | Show the resolutions of output signals |
| 5. IN/OUT Preview Selection | Rotate source of preview video from [SDI IN], [HDMI IN], [SDI OUT] and [HDMI OUT] |
| 6. IN/OUT Setup | Show IN/OUT setup GUI |
| 7. System Settings | Show System-wide settings GUI |



C1+ : Built-in Webserver

VIDEO IN/OUT page shows input status and controls out resolutions.

The screenshot shows the 'VIDEO IN/OUT' page with two columns of controls. The left column has 'InSDI' and 'InHDMI' buttons, each with a 'No Signal' indicator below it. The right column has 'OutSDI' and 'OutHDMI' buttons, each with a 'RESOLUTION' dropdown menu below it. A 'SEND' button is located at the bottom center. To the right of the controls is a grey box with the title 'How to set operation mode.' and four numbered steps.

How to set operation mode.

1. choose and click on Input Icon (InSDI or InHDMI)
2. choose and click on Output Icon (OutSDI or OutHDMI)
3. Select Resolution.
4. Press Send button.

F/W Update page performs firmware upgrading.

The screenshot shows the 'F/W Update' page. At the top, there are tabs for 'VIDEO IN/OUT' and 'F/W Update'. Below the tabs are four buttons: '+ Add files...', 'Start upload', 'Cancel upload', and 'Delete'. Below the buttons is a section titled 'SERVER FLASH UPLOADING INFO' with the text 'SERVER connected, Waiting for Firmware Update'.

How to upgrade firmware

The diagram shows the 'F/W Update' page with two steps highlighted by red dashed boxes and numbered 1 and 2. Step 1 is the '+ Add files...' button, and step 2 is the 'Start upload' button. Other buttons like 'Cancel upload' and 'Delete' are also visible.

1. Press [Add files] and then select firmware. Firmware files extension should be .uda or .udf.
2. Press [Start upload] button

The screenshot shows the 'F/W Update' page with the upload progress bar and server status. The progress bar shows a green bar indicating progress. Below the progress bar, the file name 'udc_release_app.bin.udf' and its size '15.54 MB' are displayed. The server status section shows 'SERVER FLASH UPLOADING INFO' and 'SERVER connected, Waiting for Firmware Update'.

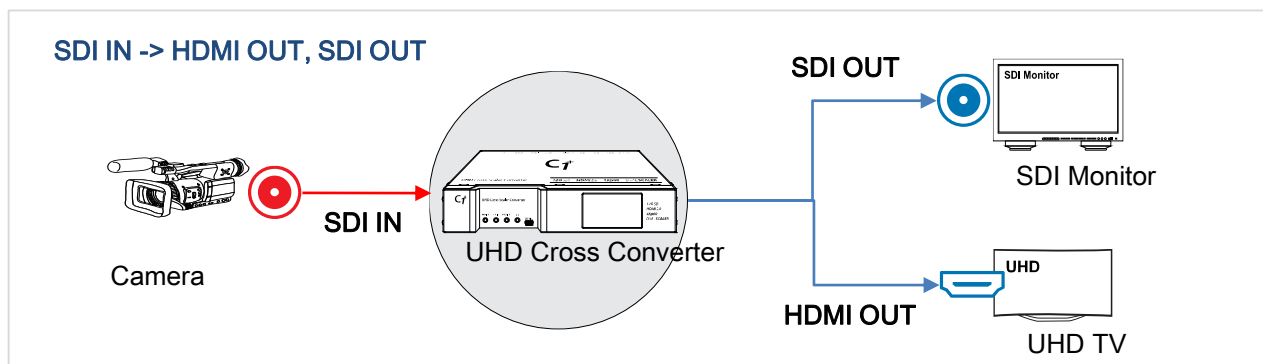
3. After uploading firmware, C1+ performs upgrading firmware. You can see the status of upgrading on LCD Screen.

The diagram shows the 'FIRMWARE UPGRADE' process. It consists of two panels. The first panel shows 'Erase 02:45' and 'Please do not turn off system'. An arrow points to the second panel, which shows 'In order to complete upgrade, a system reboot is necessary. Please reboot now.'

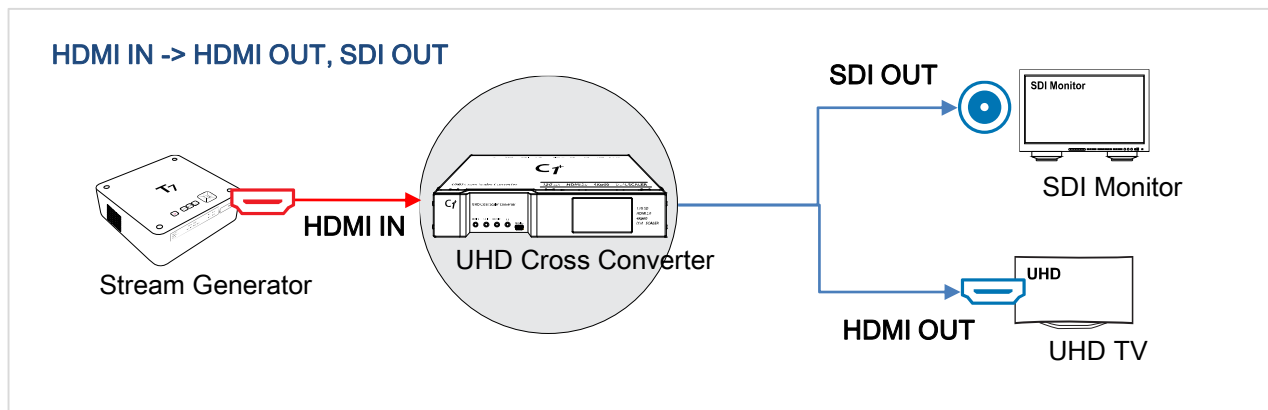
4. In order to complete upgrade, a system reboot is necessary.
5. Please reboot now.

C1+ : Operation Mode

SDI signal can be converted to HDMI and SDI signals.
Input SDI signals can be up or down scaled to outputs.
Output resolutions for HDMI and SDI can be set independently.

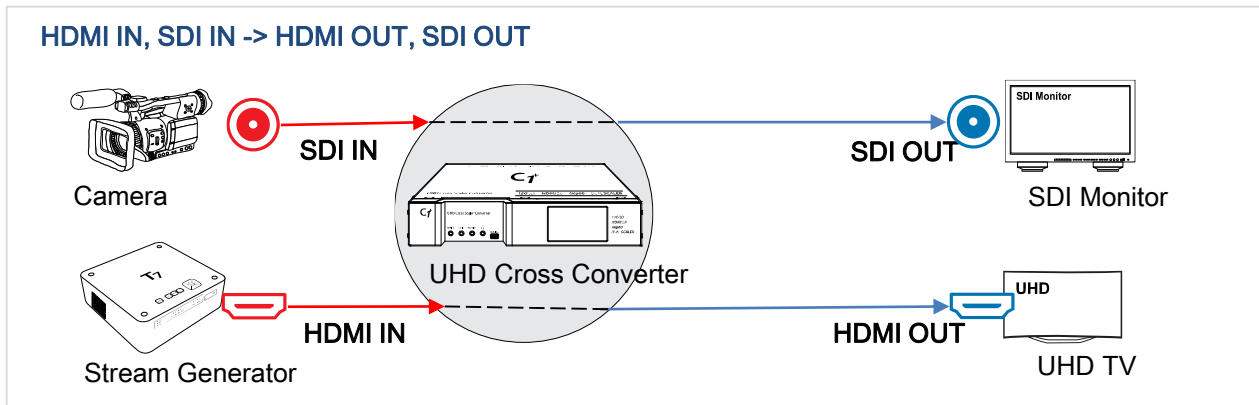


HDMI signal can be converted to HDMI and SDI signals.
Input HDMI signals can be up or down scaled to outputs.
Output resolutions for HDMI and SDI can be set independently.

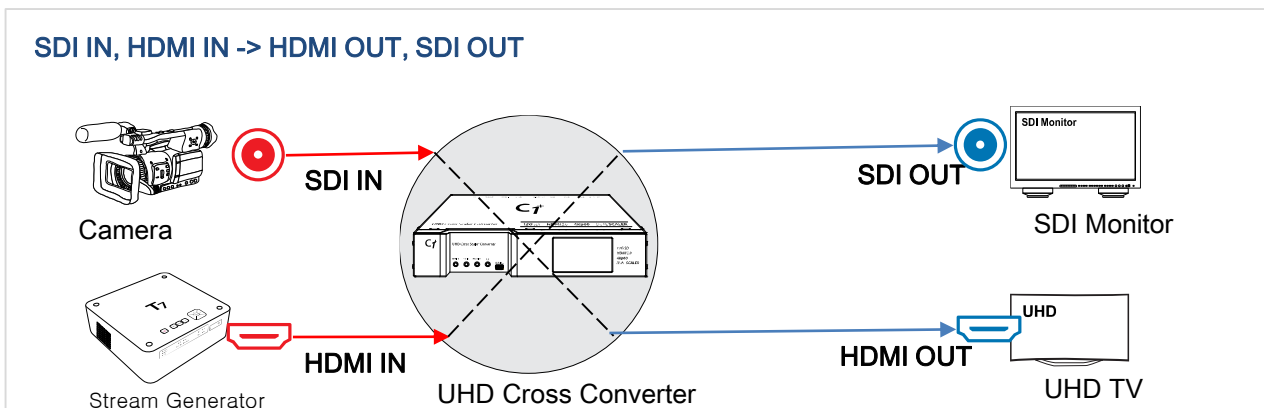


C1+ : Operation Mode

This mode works as a two separate scaler.
HDMI input signal can be up or down scaled to HDMI output.
SDI input signal can be up or down scaled to SDI output.
SDI and HDMI paths are working independently.



This mode works as a two separate scaler. Signal paths are crossed.
HDMI input signal can be up or down scaled to SDI output.
SDI input signal can be up or down scaled to HDMI output.
Two separate video paths are working independently.



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