

# C1US Quick Start



- Picture in Picture Operation
- Audio and Video Sync
- Seamless Switching
- Fade-in and Fade-out Switch
- User-defined Output Resolution Adjustment
- Output test Pattern Generator
- EDID Management
- Support Optional Module Selection

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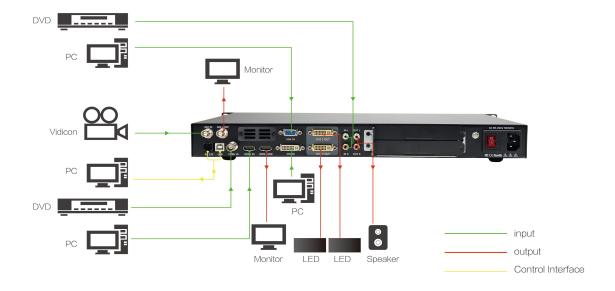


# Overview

C1US is a video processor that can do seamless switching of high resolution digital video and audio inputs . The supported standard of inputs include CVBS,VGA,DVI , HDMI (DVI compatible) and 3G-SDI and it also support an optional input module. Maximum 3G-SDI input can be up to 2 paths. Front panel is easy for users to do quick operation. Built-in broadcast level motion adaptive deinterlacing technique, color reality restoration technique, dynamic range adjustment technique, true seamless switching and anti-alias function, provide the users with high quality video display.

#### **System Connection**

RGBlink offers solutions to demanding technical problems. Any application questions, or required further information, please contact with our customer Support Engineers.



C1US SYSTEM CONNECTION DIAGRAM



# Packing Configuration







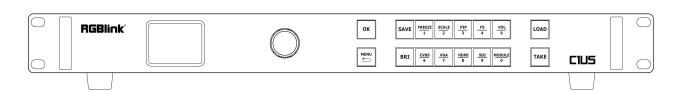
#### Note:

AC Power Cable supplied as standard according to destination market.



# Hardware Orientation

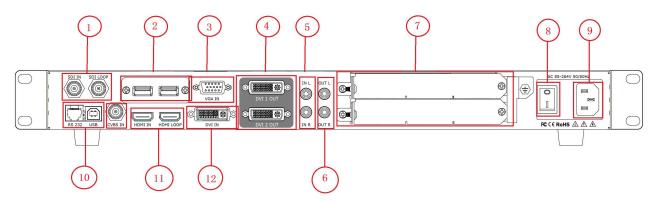
#### **Front Panel**



FRONT PANEL					
LCD	Show operation and menu items	MENU	Menu and back button		
Knob	Confirm and Select button, functioned by pushing and spinning	MODULE	Optional Input module selection area		
ок	OK button	CVBS	Select CVBS input signal		
SAVE	Save current settings as preset	VGA	Select VGA and YPbPr input signal		
FREEZE	Freeze current screen	HDMI	Select HDMI input signal		
SACLE	Scale	DVI	Select DVI input signal		
PIP	Picture in picture	SDI	Select SDI input signal		
FS	Full screen	TAKE	Switch mode		
BRI	Image adjustment	0~9	Numeral button , for scaling and self-defined resolution		
LOAD	Load the saved setting				



## Rear Panel



INPUT CONNECTORS		OUTPUT CONNECTORS					
1	SDI in and SDI loop	4	DVI output DVI-I port				
2	Optional input module area	6 Audio output					
3	VGA/YP Input DB15 port	CONTROL PORT					
5	Audio input	10	USB-A				
11	CVBS input BNC port	10	RS232				
12	HDMI and HDIMI loop	OTHERS			OTHERS		
13	DVI input	7 Sending card slots					
POWER							
8	Power switch						
9	Power IEC-3						



## Menu Tree

INPUT	OUTPUT	TRANSITION	AUDIO	SPLIT	SYSTEM	FACTORY RESET
INPUT INFO	OUTPUT INFO	MODE	мите	SPLIT ON/OFF	SYSTEM INFO	FACTORY RESET
SIZING ADJUST	OUTPUT FORMAT	DURATION	VOLUME	H TOTAL	TECH SUPPORT	
USB CONTROL	OUTPUT ADJUST	ALPHA	AUDIO IN	V TOTAL	WORK TIME	
VGA ADJUST	SCREEN	DEINTERLACE	HDMI INTERNAL/EXTERNAL	H POS	LOCK FRONT PANEL	
ADC ADJUST	RATIO	IMAGE ENHANCE		V POS	LICENSE SETUP	
SDI ADJUST	TEXT OVERLAY	TAKE		H SIZE	НОТ ВАСКИР	
EDID MANAGE	DISPLAY MODE			V SIZE	DELAY RECALL	
	GAMMA			RESET	]	



# USING YOUR PRODUCT

## Language Switching

C1US system is default in English. Long pressing 【MENU and SCALE button for 3 seconds can achieve Chinese and English menu switching.

When LCD displays 中文, the system is switched to Chinese.



When LCD displays English, the system is switched to English.





### **【TAKE】**Button

When CIUS power on, system default is HDMI input signal. To switch signal, press CVBS,VGA,DVI or SDI. For example, to switch to VGA, push 【VGA】 button and the button flashes. Keep pressing 【TAKE】 button for 3s, enter switch mode as follows. Press 【TAKE】 again, it will bring the VGA signal to output.



INPUT: VGA

TAKE: HDMI

OUTPUT: 1920X1080@60

【TAKE】 is default 1s duration of FADE. To adjust the duration time, push 【MENU】, turn the knot to select <TRANSITION> menu. Press the knob and turn to select DURATION. Press the knob again and turn the knob to select time. DURATION time range from 0.1s to 1.0s. Press 【TAKE】 again, it will bring the adjusted FADE mode to screen.



By 【TAKE】, users can preview on LCD the signal format and resolution of the picture about to show on the big screen therefore the accuracy of picture can be ensured.



## **[PIP]** Picture in Picture

Push [PIP] button and button light is on. LCD shows the <PIP> menu.

#### LAYOUT:

There are 7 layouts available in the menu. PIP L+T, PIP R+T, PIP L+B, PIP R+B, PIP CENTER, PBP L+R and PBP T+B. Here are 3 examples:

PIP L+T PBP L+R PBP T+B







#### **SWAP IMAGE:**

Select on or off to switch the main picture and secondary picture (the small one).

#### ALPHA:

Image transparency setting, the adjustment range is 0 to 16.

#### SECLECT:

Select IMAGE A or IMAGE B.



#### **SPLIT Function**

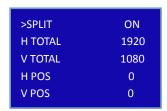
C1US can be used in multiple cascade mode to finish split. When do cascade, connect the signals to the signal distributor first, and then connect from the outputs of the signal distributor to each input of C1US. User can also do cascade via HDMI LOOP port.

Quick split can be finished as follows:

1.Push 【MENU】, turn the knob to select <SPLIT> and press【OK】.



2.Turn the knob to ON and press 【OK】 or the knob again.



**H TOTAL**:set the total horizontal pixels of the LED screen

V TOTAL:set the total vertical pixels of the LED screen

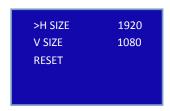
**H POS**: select the total number of horizontal screens

**V POS**: select the total number of vertical screens

**H SIZE**:set the horizontal pixels this device will provide.

**V SIZE**: set the vertical pixels this device will provide.

**Reset**: If image quality distorts by improper operation, it can be recover by reset.



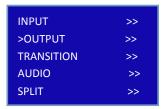
When doing equal splitting, set H SIZE and V SIZE of each device with same resolution, and then set H POS and V POS of each device correspondingly. When doing unequal splitting, set and save H SIZE and V SIZE of each device according to actual needs.



## Select And Customize Output Resolution

#### 1.Select output resolution:

Push 【MENU】, select <OUTPUT>, press 【OK】;



Select <OUTPUT FORMAT>, press 【OK】;



Select <STANDARD>, press 【OK】;



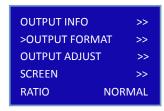




#### 2.Customize output resolution:



press 【OK】, select <OUTPUT FORMAT>



press 【OK】, select <CUSTOMIZED>.



Key in the needed horizontal pixels of resolution by using the numeral buttons on front panel and then press <code>[OK]</code>;

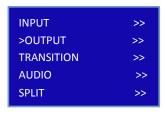




### Screen Setting And [FS] Button

The setting of <SCREEN> is based on the resolution of the LED screen,applicable under single picture mode. For example to display picture on a LED screen with resolution 1408x832, first of all, a resolution close to or bigger than 1408x832 shall be selected. In this case, 1440x900 or resolution above will be proper choice. The closer to the LED screen resolution, the better the display will be.

Push 【MENU】,select<OUTPUT>;



Press <code>[OK]</code>, select <SCREEN>, press <code>[OK]</code> again or the knob.



Then enter the menu of <SCREEN>

H SIZE:turn knob or press numeral button to set the horizontal pixels of the LED screen, e.g1408;

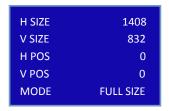
V SIZE:turn knob or press numeral button to set the vertical pixels of the LED screen, e.g 832

**H POS**:initial parameter is 0, if the picture is not skew, do not set.

**V POS**:initial parameter is 0, if the picture is not skew, do not set.

Mode:Turn knob to select <SCREEN SIZE> or <FULL SIZE>

If operation is not proper, turn knob to <RESET> and start over.



**Note:** Users can also set <SCREEN> by (FS). Press (FS) and button light is on, Led display image in screen size, press (FS) again, button light goes off, Led display image in full size.



### Input Sizing Adjustment

Push 【MENU】, select <INPUT>;



press 【OK】, select <SIZING AJUST>, press 【OK】



Then enter <SIZING ADJUST> MENU.

**H SIZE:**set the horizontal pixels of input image to zoom or scale the input signal

V SIZE:Set the vertical pixels of input image to zoom or scale the input signal

**H POS**:set the horizontal position of image;

**V POS:**set the horizontal position of image:

**RESET SIZE:** if the size is not proper, turn knob to RESET SIZE and press 【OK】





MASK TOP:crop the top of image

MASK BOTTOM: crop the bottom of image

MASK LEFT:crop the left part of image

MASK RIGHT:crop the right part of image

**RESET MASK:** If the crop not proper, turn knob to RESET MASK and press 【OK】.

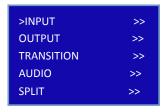




### VGA Input Adjustment

Non-standard VGA input signal can cause the input image shifting or not in full screen, therefore, users need to ajust VGA input as follows:

Push 【MENU】, select <INPUT>, press 【OK】;



select <VGA AJUST>, press 【OK】;



select<AUTO AJUST>, press 【OK】.

After selecting <AUTO AJUST> the device will automatically adjust the H POS,V POS, CLOCK and PHASE to make input image no shifting and full screen.



Note:If one <AUTO AJUST> cannot meet the needs, users can do <AUTO AJUST> many times. The system can automatically save the ADJUST parameter. Users can also go to <AUTO AJUST> by pressing 【VGA】 button for 10s.



## **SCALE** Scaling Funtion

To scale the output image, users can press 【SCALE】 button and set the parameters by turning knob or pressing numeral buttons.

After user press 【SCALE】, LCD shows the menu items as follows:

H SIZE: set the horizontal pixels of output image

V SIZE: set the vertical pixels of output image

**H POS:** set the horizontal position of image

**V POS:** set the horizontal position of image

**RESET:** If operation is not proper, turn knob to <RESET> and start over.





## **【FREEZE】**Button

To freeze current output image, users can press 【FREEZE】 on the front panel.

LCD shows "FREEZE IMAGE" and the 【FREEZE】 button light is on.



To exit FREEZE mode, press 【FREEZE】 again and the button light goes out.



#### Text Overlay

Text overlay function is to add subtitle on output image, more often used on such fields as live broadcasting, live concert, live commentary, and advertisement.

Before text overlay, the subtitle input channel need to be ensured, e.g subtitle input channel VGA And the overlayed channel need to be decided, e.g overlay text on DVI channel. Set as follows:

- 1. Push 【VGA】 to check VGA input, LCD shows the VGA input.
- 2. Push 【DVI】 to check DVI input, LCD shows the DVI input.
- 1. Push 【PIP】, make sure VAG is the small picture and DVI the big picture, if not, turn the <SWAP PICTURE> "ON" in 【PIP】 menu.
- 4. Select <SELECT> in 【PIP】 menu, Press <OK> turn Knob to select"IMAGE B", press <SCALE> to set the size and position of "IMAGE B" which the VGA picture in this case.

If there is black rim on top, bottom, left or right of the VGA picture, use <MASK TOP>,<MASK BOTTOM>,<MASK LEFT><MASK RIGHT> to crop the black rim.



5. Push 【MENU】, select<OUTPUT>, press 【OK】;

Select <TEXT OVERLAY>, press 【OK】 and enter <TEXT OVERLAY> menu as follows.



Select <TEXT OVERLAY> press 【OK】 and turn the knob to "ON" and press 【OK】 again



6. Select <PRESET>press 【OK】 and turn the knob to "WhOnBk1" or "WhOnBk2" and press 【OK】 again



Note:TEXT OVERLAY only support monochrome subtitles.

7.Push 【SAVE】 to save the TEXT OVERLAY as preset. Next time to use, just 【LOAD】 the save, the preset TEXT OVERLAY setting can be used directly.

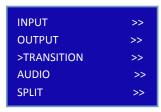




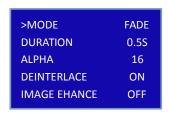
#### TRANSITION Setting

Transition is used to set the switching mode between different input sources.

Push [MENU], select<TRANSITION>, press [OK]



Enter the menu as below



**MODE:** Special effects switching modes, including FADE, CUT, WIPE SOUARE IN, WIPE SOUARE OUT, WIPE TOP LIEFT IN, WIPE TOP LIEFT OUT, WIPE TOP RIGHT IN, WIPE TOP RIGHT OUT, WIPE BOTTOM LEFT IN, WIPE BOTTOM LEFT OUT, WIPE BOTTOM LEFT OUT, WIPE LEFT OUT, WIPE RIGHT IN, WIPE TOP IN, WIPE TOP OUT, WIPE BOTTOM IN and WIPE BOTTOM OUT

**DURATION:**set the transition time ranging from 0 to 1S by rotating the knob and pressing **[OK]**.

**ALPHA:** set the image transparency ranging from 0 to 1S by rotating the knob and pressing 【OK】.

**DEINTERLACE:** select ON or OFF to enable or shut down the deinterlacing function

IMAGE ENHANCE: image enhancement function, for image edge sharpening, color reduction and image scaling.

Select ON or keep pressing 【TAKE】 button 3s to enable the function. The selected input signal will be switched to output as the TRANSITION set.





## **AUDIO Setting**

Push [MENU], select<AUDIO>, press [OK]



Enter the menu as below:



**MUTE**:select ON or OFF

Volume: adjustment range from 0 to 100

AUDIO IN:select the source of the input audio from IMAGE A or IMAGE B

**HDMI:**select internal or external audio for HMDI input



## **【BRI】** Image Adjustment

Push **[** BRI **]** button and enter the image adjustment menu where users can adjust brightness, constrast, saturation, sharpness, color temperature of red, green and blue.

BRIGHTNESS: range from 0 to 100.

**CONTRAST:**range from 0 to 100.

SATURATION: range from 0 to 100

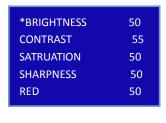
SHAPRNESS: range from 38 to 62

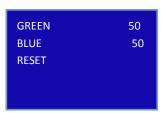
RED:range from 0 to 100

GREEN:range from 0 to 100

BLUE:range from 0 to 100

**RESET:**If image quality distorts by improper operation, it can be recover by reset







### **BLACK OUT Setting**

Black out descriptions:

Black signal realizes one-key-touch to a black screen.

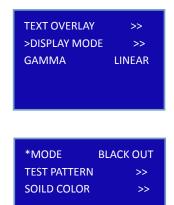
C1US provides black effect processing for output with cut black effect. Operation is as below:

Push [MENU], select < OUTPUT>, press [OK].

Turn knob to select<DISPLAY MODE>, press 【OK】 or the knob.

Select<MODE>, press 【OK】.

Turn knob to select BLACK OUT, press 【OK】.



After BLACK OUT, the LED screen show black, the process is as below:









## **SAVE** Save Settings

Push the [SAVE] button, the button light is on, and enable the SAVE function.

LCD shows [SAVE] instruction info to assist users complete operation. Meanwhile, part of numeral buttons 0~9 lights are on and parts flash. Buttons with lights on are empty, flashing buttons are used. LCD shows as below



Saving to flashing positions will overwrite previously saved settings. For example, button 1 is flashing, after pressing button 1, LCD shows

SAVE 1 used,overwrite Yes<OK>, No <MENU>

Push 【OK】 to confirm, 【MENU】 to cancel.



# **【LOAD】** Recall Saved Settings

Push 【LOAD】LCD shows the instruction information to assist users complete LOAD operation.

Meanwhile, among numeral buttons 0-9, some buttons lights are on, some flash and perhaps some lights go off.

Buttons with light on indicate the <SAVE> ready to load, flash indicate the <SAVE> is currently loaded, light off indicate no <SAVE> to load. For example button 1 light is on, press button 1 to load <SAVE1>

LCD shows below:

LOAD FROM
>SAVE1 FINISHED!
KEY ON FOR ALL SAVES
FLASH IS CURRENT SET

Push 【MENU】 to exit LOAD, the button lights go out.



# CONTACT INFORMATION

#### Warranty:

All video products are designed and tested to the highest quality standard and backed by full 3 years parts and labor warranty. Warranties are effective upon delivery date to customer and are non-transferable. RGBlink warranties are only valid to the original purchase/owner. Warranty related repairs include parts and labor, but do not include faults resulting from user negligence, special modification, lighting strikes, abuse(drop/crush), and/or other unusual damages.

The customer shall pay shipping charges when unit is returned for repair.

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