

S30 Video Processor

Instructions

Version: Ver.1.2



Statement

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Update Record

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1	Ver.1.0	Initial	2020.12.14
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The document is subject to change without prior notice.

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Interface Definition

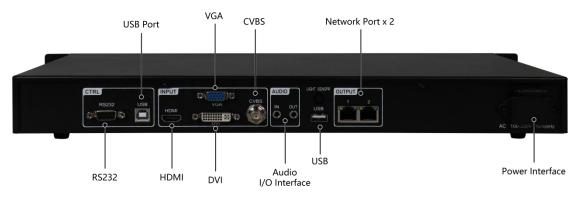
Front Panel



No.	Keys	Illustrations
1	ON/OFF	Power ON/OFF
2	LCD	To display the current status of the device and to have the
2	Display	menu settings.
		1. In the main interface, press the knob to enter the menu
		operation interface;
		2 In the menu operation interface,rotate the knob to
	choose the menu, press the knob to select the current	
3	3 Knob	menu or enter its sub-menu.
		3 . Once the menu that is with parameters selected, you
		could rotate the knob to adjust the parameters, and make
		sure to double press the knob to confirm.
4	Esc	Return(ESC)/Cancel the current menu or operation.
5	SCALE	Full Screen Scale Shortcut Key

		Input Source Key Description:
		HDMI: HDMI Source Input Key, when it is on U-Disk
		playing ,to press " , to pause or play the file. DVI:
		DVI Source Input Key, when it is on U-Disk Playing,
		to press the " ", to select to play the previous file.
		VGA: VGA Source Input key, when it is on the U-Disk
		playing to press the " ", to selcet to play the next file.
		USB: External Media Playing, U Drive Disk Playing Input
6	HDMI	Source,, when it is on U-disk playing, the " ", means
		stop playing.
		CVBS: CVBS Source Input Key。
		Signal Source Input Status : The indicator light keeps on
		indicating that there is a signal source connected and in
		use. The flashing indicator indicates that the interface is in
		use but there is no signal source.
		When the indicator light is off, the signal source is not
		used.
7	Black	One Click to get the Black Screen Shortcut Key

Real Panel



input interface			
Control	interface		
No.	Ports	Unit	Illustrations
1	RS232	1	Debug Series Connection Port
2	USB-B	1	USB Port
No.	Ports	Unit	Illustrations
3	HDMI	1	HDMI1.3 Standards , the maximum resolution it could support: 1920 × 1080@60Hz. It is downwards compatible and support HDCP1.4。
3	VGA	1	the maximum resolution it could support: 1920 × 1080@60Hz. It is backwards compatible
5	DVI	1	the maximum resolution it could support: 1920 × 1080@60Hz. It is backwards compatible
6	CVBS	1	PAL/NTSC Standards Video Input.
7	AUDIOIN	1	3.5mm Audio Interface.
8	USB	1	1×USB 2.0 Interface, connecting to the U-disk, it

	supports 1080p@30fps
	Video files。
	The U-Disk File System Supports NTFS、FAT32 and
	FAT16, but the exFAT (FAT64) is not supported.
	Image Formats: jpg、jpeg、png and bmp。
	Video Encoding: MPEG1/2, MPEG4, Sorenson
	H.263 , H.263 , H.264(AVC1) , H.265(HEVC) ,
	RV30/40, Divx, Xvid.
	Video Bit Rate: Below 4000
	Audio Encoding: MPEG1/2 Layer I , MPEG1/2
	LayerII , MPEG1/2 Layer III, AAC-LC, VORBIS, PCM
	and FLAC。
Output Ports	

No.	Ports	Unit	Illustrations
9	Network	2	2 Ethernet Port Output, directly connecting to the
9	Port	2	receiving card.
	AUDIO		3.5mm Audio Port
10	AUDIO	1	It supports the audio channel : 3.5mm audio
OUT			channel、 HDMI、USB

Hardware connection diagram

Harware Connection Diagram 2 in 1 Video Processor S30



Software download and Installation:

LEDOK express

Download link:

https://drive.google.com/file/d/1TOiJ -raeULoJmh1D4fqEjmZ7tB6Jl0T/view?usp=sharing

Ledset4.0

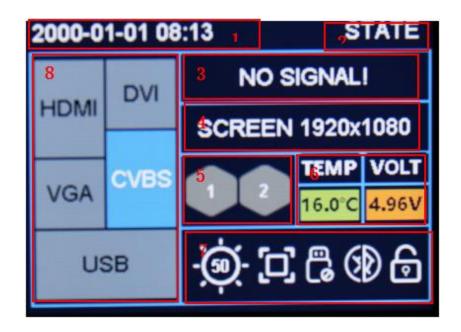
Download link:

https://drive.google.com/file/d/1EjLo0ZHwKfAcyQEM6DvN6xmqyrjldvfr/view?usp=drive_link

Operation Menu

Main Interface

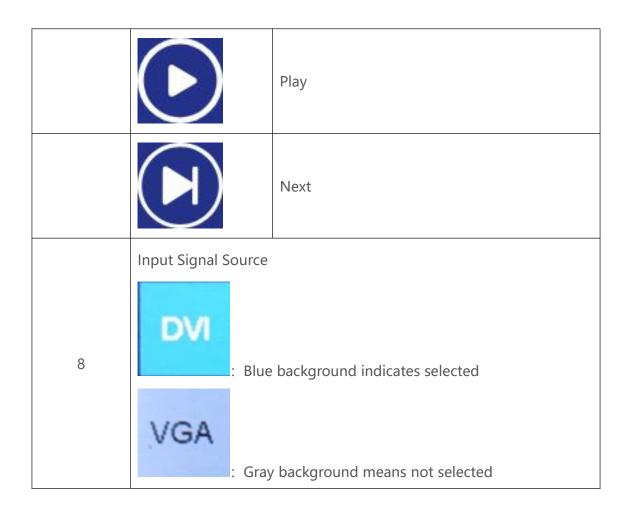
Main interface After the processor is turned on, the LCD screen displays the main interface as follows:



No.	Illustration
1	Real Time
2	Current display interface
3	The input resolution of the currently selected input signal source;:
3	No signal!
4	Sending card image capture resolution
5	Number: indicates the serial number of the network port

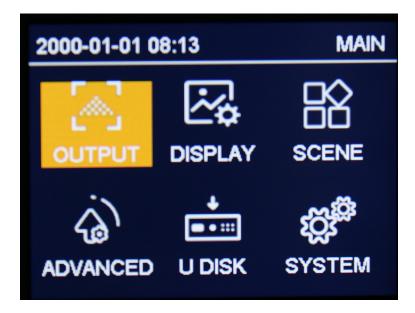
	: Indicates that the receiving card is connected : Indicates that the receiving card is not connected		
	Function Status		
	Icon	Illustration	
	15.3°C	Real-time temperature monitoring of	
		equipment	
	4.94V	Real-time power monitoring of equipment	
	(9)	Processor brightness value	
6、7	- Ö -	Timing brightness on	
		FULL SCREEN DISPLAY	
	1:1	1:1 Pixel to Pixel Display	
	(§)	Screen freezes off	

*	Screen freezes on
	U disk is connected
	U disk is not connected
	The keys are not locked
	The Keys are locked
	Stop play
	Pause playback
	Previous



Main Menu

In the main interface, press the knob to enter the menu operation interface, press the knob to enter the sub menu, and press ESC to return to the previous level.



Output

Output Resolution Setting

Enter the "Output" menu, as shown in the figure below:



Common resolutions are 1024x1280 60HZ, 1280×720 60HZ, 1366×768 60HZ, 1440×900

60HZ, 1280×1024 60HZ, 1680×1050 60HZ, 1920×1080 60HZ, 1920×1200 60HZ, 2048x1024 60HZ, 2304x1080 60HZ, 2560x1080 60HZ, 3840x640 60HZ, 1080x1920 60HZ. When actually applied to the LED display screen, we can choose a preset output resolution larger than the LED screen resolution, or set it to an output resolution that is just the size of the LED display screen resolution.

For example, we use a desktop computer with 1920X1080 resolution monitor, the graphics card output is set to copy or extend 1920X080 resolution, DVI cable output to the video processor, the LED screen resolution is 1344X704, use 1 image to send and load, how to set ?What about the LED video processor parameters?

The following describes the general setting method: Operation method:

Operation Method

First of all, the interface of each hardware device is normal and the input and output connections are correct. I will not introduce it in detail here.

The first step is to set the output resolution, the specific operation: main menu-"output display"-"resolution" select a preset resolution larger than 1344X704, such as "1366X768, 1680X1050, 1920X1080" are all OK, apply;

The second step is to set the full-screen display, that is, the entire desktop of the computer is zoomed and displayed on the LED screen. Specific operations: main menu-"output display"-enter "window zoom" and change the horizontal width to 1344 and the vertical height to 704;

The third Step, set the partial display, press the "SCALE key" to switch the full screen/partial screen (the default is 1:1 point-to-point output);

The fourth step, set the parameter as a template, the specific operation: main menu-"template selection "Save, select 1 template to save.

Custom Resolution

2000-01-01 08:14	RESOLUTION
Width	1920
Height	1080
Frame Rate	60
Apply	

When the output resolution that meets our needs is not available in the common output resolutions, such as 1920X1280 size, then the resolution must be customized. The specific operation: main menu-"output display"-"custom resolution", set the screen width Set it to 1920, screen height 1280, refresh rate 60, and application.

Image

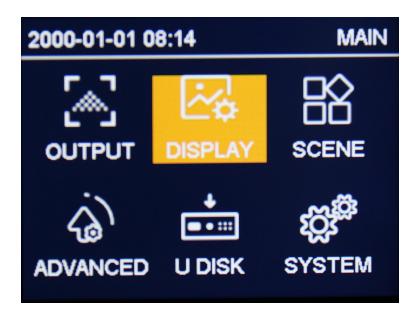
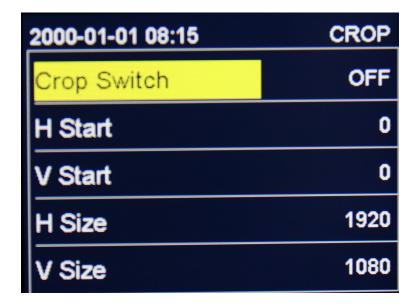


Image Scaling



It means that the image output by the video processor is displayed on the full screen on the LED display. If the resolution is exactly the same, there is no need to set the "window zoom" step; if the resolution is different, you need to set it and display the image on the LED screen. It will be reduced or enlarged, just adjust the horizontal start, vertical start, horizontal width, and vertical height to the image size we need.

Input interception (Capturing)



A certain part of the output image of the video processor is displayed in full screen on the LED display. The system defaults to the "off" state (the following parameter adjustment items are grayed out and cannot be modified). Only when the state is "on" can the function adjust the parameters effectively. Turn on the interception function. The screen parameters we will intercept are such as "horizontal start, vertical" Start, image width, image height" are set. www.sysolution.net

Image Properties

Enter the "Image Properties" menu, as shown in the figure below:



Brightness

adjust the output image brightness value, the system default is 50, 0-100 can be set.

Contrast

adjust the output image contrast value, the system default is 50, 0-100 can be set.

Color temperature

adjust the color temperature mode of the output image, the system default is Normal Color temperature, and "cool color, warm color, custom" can be set.

When the color temperature is customized, you can manually adjust the red, green, and blue values.

Saturation

adjust the saturation value of the output image, the system defaults to 50, 0-100 Can be set.

Sharpness

adjust the sharpness value of the output image, the system default is 20, 0-64 can be set.

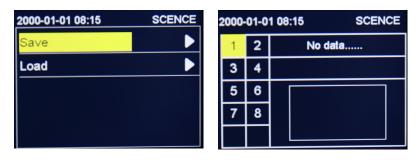
Hue

adjust the tone value of the output image, the system default is 50, 0-128 can be set.

Scenarios

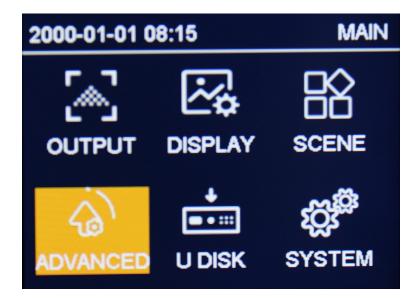


Enter the scene selection menu, as shown in the figure below:

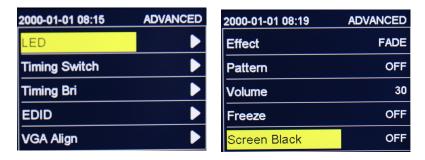


Here, we can save and load the parameters set by the video processor, including the input signal, input resolution, output resolution, position offset, zoom, interception and other information to save as a template, which is convenient for next use. The system has 8 templates for users to save.

Advanced



Enter the "Advanced Settings" menu, as shown below:



There are 10 function settings in the advanced settings: "LED, EDID management, VGA correction, volume, freeze, switching effect, test mode, black screen, timing brightness, automatic brightness", which are introduced below.

LED

Enter the "LED" menu, as shown in the figure below:



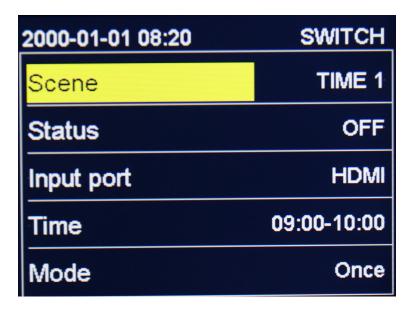
Select the network port arrangement mode "1X2, 2X1".

Set the number of rows and columns of each network port box. Eight common wiring methods can be selected for the wiring method.



Timing Switch

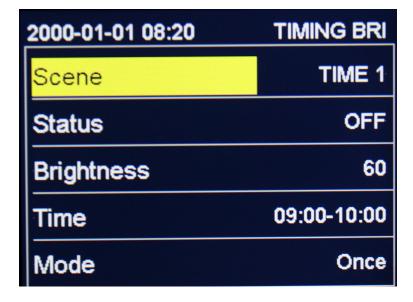
Enter the "timing switch" menu, as shown in the figure below:



- a. Set the number of time periods, up to 5 segments.
- b. Status: On means to turn on the timing switching function; Off means to turn off the timing switching function.
- c. Port: Switch the input signal source.
- d. Time: Set the switching time.
- e. Times: Switch times within the set time period.

Timing Brightness

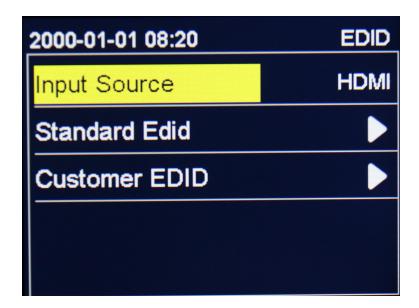
Enter the "timing brightness" menu, as shown in the figure below:



- a. Set the number of time periods, up to 5 segments.
- b. Switch: On means to turn on the timing switching function; off means to turn off the timing switching function.
- c. Brightness: switch the brightness value
- d. Time: set the switching time
- e. Times: switch times within the set time period

EDID Management

Enter the "EDID Management" menu, as shown below:



Input Signal Source

EDID of HDMI and DVI input signal sources, including resolution size and refresh frequency parameters. The settings are described below.

Common EDID

Enter the sub-menu, select the common EDID "1366x768_60HZ, 1440x900_60HZ, DVI_1080P, HDMI_1080P" to quickly se.

Custom EDID

Enter the sub-menu, you can set "EDID type, image width, image height, refresh rate", the application takes effect

VGA Calibration

Enter the "VGA Calibration" menu, as shown in the figure below:

2000-01-01 08:21	VGA
Mode	AUTO
H Start	0
V Start	0
H Width	1920
V Height	1080

There are two modes: "Auto" and "Manual". In automatic mode, the following "horizontal start, vertical start, image width, image height, phase" setting parameters do not work; only in manual mode, The parameters set below are valid.

When the connected VGA signal is output by the video processor in automatic mode by default, if the image output to the LED screen is normal, there is no need to modify it; if the image output to the LED screen is missing, offset, etc., then Need to modify the parameters manually.

Switch to "Manual" mode, visually inspect the image on the LED screen, adjust the "horizontal start, vertical start, image width, image height" parameter values through the knob, modify one by one, set when the visual image is displayed to the appropriate position.

Phase is to improve the output to the LED screen when there is an abnormal display (such as flash point, blurry), and the value can be adjusted from 0 to 2500.

Switching Effects

Special effects for switching between input signals, the default "fade in and fade out" effect, you can switch the "seamless switching" effect.

Test mode

Default "off" state, switch to "white, red, green, blue, black" and other test screens in turn.

Volume

Set the numerical value of the output audio volume, the default is 40, and it can be set to 0-100.

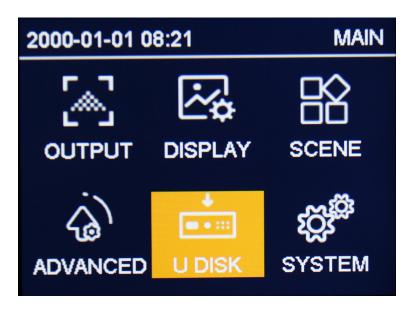
Freeze

The default "off" state, through the knob operation, when turned to "on", the output screen is frozen uncontrolled, and then turned to "off", the output screen continues to display.

Black Screen

Default "off" state, switch to "on" black screen state.

U Drive Disk



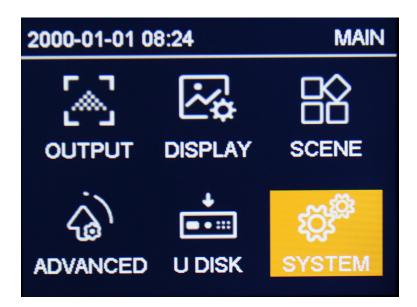
To use the U disk playback function, first insert the U disk into the USB port of the video processor, and then press the "USB" signal switch button on the front panel to enter the U disk signal state. At this time, we enter the "U disk playback" from the main menu.

If a U disk is inserted into the processor without pressing the "USB" signal switch button

on the front panel, you want to enter the "U Disk Play" menu through the knob and press the OK button. If you can't enter the U disk to view and play files, it will pop up.

Press the "USB" button on the front panel to switch to the U disk information. If you press the "USB" button again, you can play the files in the root directory of the U disk, such as "pause/play, previous song, next song, stop" function, At this time, pressing the other "HDMI, DVI, VGA, CVBS" signal switching function is invalid, press "Esc" to exit the U disk playback operation.

System



Version Information

That is the version information of the current video processor system program.

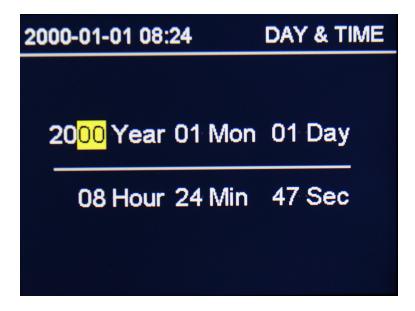


Language

The default system language is "Chinese", you can switch to "English" language, press OK www.sysolution.net

to confirm.

Time Settings



Select the corresponding number and turn the knob to increase or decrease the number.

After setting, press the knob to confirm.

Key Lock

Turn on the key lock function to prevent misoperation and lock the front panel key functions. The default "off" state, select the "on" state, and then press the OK button to confirm, you can set to automatically lock without operation for 1-3 minutes; unlocking method: press the OK button and there will be a prompt, then press any button to unlock.

Factory Settings

Press the OK key to pop up the prompt message "Are you sure to restore the factory settings? (Confirm/Return)"; press the OK key to confirm, and press the Esc key to return.

Upgrade Processor

Put the V56 upgrade program into the U disk, insert the USB port, select "Upgrade Processor" until the upgrade automatically restarts and enter the status interface, at which

time the upgrade is complete.