

LED-FW16-C LED Video control server

Instructions for User, V1.2

Before using the LED video control server, please read the instruction manual carefully and keep it properly for future reference.

MAGNIMAGE





statement

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update l	log	
Document version	release time	Update instructions
V1.0	2024-11-20	First release
V1.1	2025-01-07	Update product appearance
V1.2	2025-04-16	More layer test patterm, 16 to 17
		Update OPT output setting menu
		Update OPT output function and Connection sequence map
		While sending Connection sequence not change layer parameter
		(Firmware version at least 0035)



catalogue

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Brief introduction

Thank you for purchasing our LED video control server. I hope you can experience the excellent performance of the product. The LED video control server is designed to comply with international, industry standards, but it can still cause personal injury and property damage. To avoid the potential hazards and benefit from your equipment whenever possible, follow the relevant instructions in this manual when installing and operating the product.

brand royalty

- VESA is a trademark of the Video Electronic Standards Association.
- ➤ The HDMI, HDMI logo and High-Definition Multimedia Interface (High-definition Multimedia Digital Interface) are all trademarks or registered trademarks of HDMI Licensing LLC.
- > Even if the company or the product trademark is not specifically specified, the trademark has been fully recognized.

About software

It is not allowed to change, decompile, reverse compile, decrypt or reverse engineer the software installed on this product. The above acts are all illegal.



Product features

- Standard input ports: 2 x HDMI 2.0,2 x DP1.2,4 x 10 G OPT, 1 x 12G SDI, 2 x HDMI 1.4
- Support 2-channel HDMI 2.0 loop out
- Support for scaling and image capture function
- Support quick light-up screen, no need computer software connection
- HDMI 2.0 / DP1.2 / OPT supports 8K x 1K / 60Hz input
- Support for 4K@60Hz, RGB 4:4:4
- Support the layer size and position adjustment and image interception function
- Supports 4 layers, full-screen roaming
- Support for a custom input / output resolution
- The whole unit max width is 16380 pixels and max height is 7680 pixels
- Support for template saving and retrieving
- Support for connecting the MAGNIMAGE C-Link series receiving cards
- Layer fast templates are supported
- Support for local U disk reading and loading configuration files
- Supports the monitoring of the output function
- Support multi-machine group backup, layer linkage, so that the whole main system can be switched to the backup system at the same time
- Support for single machine input backup
- Support single-machine port backup and multi-machine port backup
- Support cabinet mark, open cabinet mark to visually view the cabinet position
- Support debugging network port with loop out, no need for the router to form a LAN, convenient for multi-machine cascade debugging
- Support for single-machine multi-input splicing and multi-machine splicing
- Support central control
- Support optical port input and optical port backup
- Support output freezing
- Support one-button black screen
- Support key lock
- Support for HDR 10 / HLG



safety instruction

The input voltage range of the power supply of this product is $100\sim240\text{V}$, and 50 / 60Hz. Please use the correct power supply.

When you want to connect or remove any signal or control lines, confirm that all power cords have been removed previously.

When you want to add the hardware device to this product or when you want to remove the hardware device from this product, please confirm that all the signal lines and power cables have been removed previously.

Before any hardware operation, turn off the LED video control server and release the static electricity from your body by touching the ground surface.

Please use it in a clean, dry and ventilated environment, do not put this product in high temperature, wet and other environment.

This product is electronic products, please stay away from the fire source, water source and flammable, explosive dangerous goods.

There are high pressure parts in this product, please do not open the chassis or repair the equipment by yourself.

If there is any smoke, odor and other abnormal conditions, please turn off the power switch immediately and contact the dealer.



function Introduction

summary

LED-FW16-C is a video control server, which integrates video processing, splicing, switching and LED screen sending card functions by MAGNIMAGE. This series integrates various professional input interfaces, single port support up to 4K x 2K / 60Hz or 8K x 1K / 60Hz, LED-FW16-C has three working modes: normal, Mach and fiber converter. In Mach mode, the single network port carries 2.20 million pixels, the whole network port 8 main 8 backup, and the maximum machine port carries 17.60 million pixels; in normal mode, the single network port carries 0.98 million pixels, the machine 16 network port output, the machine carries 15.68 million pixels; can be used with the C-Link series receiving card.

The video control server supports EDID management and customized output resolution. The widest output of a single machine can reach 16380 pixels, and the refresh rate can be up to 120 HZ, which greatly improves the utilization of output bandwidth. The output image can be scaled point by point according to the actual size of the LED display.

Complete video input interface: DP1.2 (support $8K \times 1K / 60Hz$), HDMI 2.0 (support $4K \times 2K / 60Hz$), DVI, 10G OPT, 12G SDI, support a HDMI 2.0 loop out. In addition, it supports network port, square port USB and RS232 port control. Network port has built-in router function, which can realize the cascade control of multiple machines and facilitate the interconnection control with a variety of video devices.



Figure of the front panel



Key instructions			
Spinning knob	Use in menu operations to select menu items and	INPUT 1/1	DVI 1 / number key 1
OK	By default, call menu, menu status is confirmation key	INPUT 2/2	DVI 2 / number key 2
U	Return to the key, return to the previous level menu	INPUT 3/3	HDMI 2 / number key 3
LAYER 1	Layer 1	INPUT 4/4	DP2 / number key 4
LAYER 2	Layer 2	INPUT 5/5	HDMI 1 / number key 5
LAYER 3	Layer 3	INPUT 6/6	DP1 / number key 6
LAYER 4	Layer 4	INPUT 7/7	SDI-12G / number key 7
FULL SCREEN	One key full screen key	INPUT 8/8	OPT-L / number key 8
TEMPLATE	Quickly call out the template template key	INPUT 9/9	OPT-R / number key 9



ZOOM/0	Layer zoom key / number key 0	BRIGHT	Brightness adjustment key
EDID	EDID editing key	BLACK	One key black screen key
CROP	Signal truncation key	LOAD PRESET	Preset the call key
LED CONFIG	The LED screen configuration key	LOCK	Keylock button
TEST PATERN	Test the graph card key		
FREEZE	Freeze the key		
MAPPING	Intelligent standard order key		
SIZE	Layer size key		
SAVE PRESET	Save the preset shortcut keys		



The rear panel is shown

LED-FW16-C





technical specifications

Enter the index		
port	Number of ports	explain
HDMI2.0	2	Maximum resolution: 3840 x 2160 / 60Hz, downward compatibility Support for EDID management The custom resolution,MAX width 4094 pixels,MAX height 3840 pixels Front-end forced input maximum support: 7680 x 1080 / 60Hz
DP1.2	2	Maximum resolution: 7680 x 1080 / 60Hz, downward compatibility Support for EDID management The custom resolution is up to 7680 pixels and up to 3840 pixels
HDMI1.4	2	Maximum resolution: 38401080 / 60Hz, downward compatibility Support for EDID management The custom resolution,MAX width 4094 pixels,MAX height 3840 pixels
12G SDI	1	The 12G-SDI is downward compatible with the 6G-SDI, 3G-SDI, HD-SDI, etc
OPT1~OPT4	4	The 10G optical fiber input

Note: OPT 1 and OPT 2, OPT 3 and OPT 4 receive only OPT output data from 640Pro, V12, V16, etc.

When OPT 1 and OPT 2 are not output as input, they can be used for optical port backup, backup network port data output or for optical port replication and copy network port data output.

All four layers support SDI input de-row processing.

Output indicators		
port	Number of ports	explain
Gigabit network port Neutrik(NE8FBH)	16	The widest limit: 16380 pixels, the highest limit: 7680 pixels Normal mode: single network port carries 0.98 million pixel, the whole machine 16 network port output, the whole machine carries 15.68 million pixel Mach mode: single network port with the load of 2.20 million pixel, the whole machine network port 8 main 8 backup, the whole machine with the maximum load of 17.60 million pixel Maximum refresh rate: 120Hz
HDMI2.0 LOOP	2	The signal source corresponding to HDMI 2.0 can be circled, and the loop-out resolution is consistent with the corresponding HDMI 2.0 input resolution
HDMI Monitor	1	For output monitoring, fixed 1920x1080 / 60Hz resolution
OPT1~OPT4	4	It can be used for optical port backup or copy signal output

Note: When OPT 1-OPT 2 is used for optical port backup or copy signal output, OPT 1 outputs data to port 1-8, and OPT 2 outputs data to port 9-16.



control interface	
Network port communication port	Two RJ 45 control ports for connecting the upper computer or multi-machine cascade communication
Square port USB communication port	Used to connect the upper computer computer
The RS232 port	For connecting to the central control device

Complete machine sp	pecification
Enter the power supply	100-240V AC~50/60Hz 0.6A
working temperature	0-45°C
outline dimension	482.6×421.3×88 mm (L × W × H)
net weight	7.6KG
Complete machine power consumption	80W



Use the menu

The menu system using the product can be convenient and intuitive to set the machine to meet the user's requirements.

The video control server uses a full-color LCD screen to display the entire user menu. When the user has no operation or the operation timeout, the LCD screen will display the default status. If the keys in the front panel of the machine are used to set the machine, the LCD screen will display the corresponding menu according to the user 's operation to prompt the user to conduct better, faster and more intuitive operation.

The following will combine the key function and LCD screen display to introduce the video control server menu system.

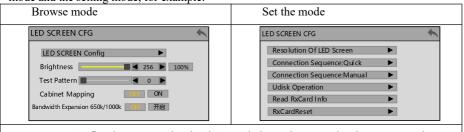
How to use keys

The front panel buttons of the video control server are divided into four zones, namely: MENU, LAYER, INPUT, and FUNCTION

MENU:

This area contains 2 keys and a knob that can be pressed: \Longrightarrow OK, key and knob. Short press the knob for the same function as the confirmation \Longrightarrow key (OK); when you press the return key (), the menu system will return to the previous menu until it returns to the default state.

In the main menu, the confirmation key is also used to switch between the browse mode and the setting mode, for example:



Confirm button, tap the "knob" to switch
 between the above two modes

In browse mode, rotate the knob counterclockwise with the cursor moving upward or left; rotate the knob clockwise with the cursor moving lower or right. When moving the cursor to the item to be adjusted, press the knob or confirmation button to enter the setting mode, then rotate the knob counterclockwise to reduce the current parameter value and rotate the knob clockwise to increase the current parameter value. To continue setting up additional items on this page, switch back to browse mode. To return to the previous menu, use the return key; if adjusted, press the return key to return to the superior menu until the default state.



LAYER:

This area contains 4 keys: LAYER1, LAYER2, LAYER3, LAYER4, FULL SCREEN, TEMPLATE; four active screens, full screen keys and layer template keys.

Long press the LAYER button for 3 seconds to open or close the corresponding layer. If the layer has been opened, the key shows bright white, currently select the layer, and the key displays red.

Short press to select this layer.

Select the layer and then press the FULL SCREEN key to quickly achieve the full screen.

Short press TEMPLATE, you can quickly call up the layer template.

INPUT:

This area contains 12 keys: INPUT1-9, EDID, CROP, and ZOOM keys.

To select the input signal: press the layer button in LAYER area, then press the input button in INPUT area.

Input signal, key display bright white; red currently selected.

FUNCTION:

This area contains 9 keys: LED CONFIG, TEST PATTERN, FREEZE, MAPPING, SIZE, SAVE PRESET, BRIGHT, BLACK, LOAD PRESET, and LOCK.

key	explain
LED CONFIG	The LED screen configuration button
TEST PATTERN	Test the pattern button
FREEZE	Output the freezing button
MAPPING	Cabinet mapping button
SIZE	Quickly exhale the currently selected layer size / position parameter interface
SAVE PRESET	Quickly call out the preset save interface
BRIGHT	Adjust the brightness shortcut button of the LED display screen
BLACK	One key black screen button
LOAD PRESET	Quick call out of the preset loading interface
LOCK	Press the lock, short press the lock, unlock the password "1234"



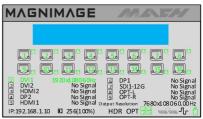
Default status introduction

After opening the video control server, the LCD screen displays on the front panel. After the startup, the LCD screen displays the initial state of the device, as shown in the figure below:

Model # FW16-C:



The Mach mode initial interface



The Normal mode initial interface



FiberCon mode initial interface



Fiber state information (turn the knob while initial interface)

The information in the figure above is described below:

symbol	explain
INPUT1-9	The input interface type corresponds to the INPUT1-9 button to display the input resolution, and the no signal shows the No signal status
Output resolution	Current device output resolution and output refresh rate
1,5	Network port serial number, network cable connection network port and screen Communication is normal, the serial number of the network port is green, and the abnormal communication is white
IP	The IP address of the local machine
256(100%)	Current LED display brightness value
HDR	Open the HDR function, and the LCD panel displays the word " HDR
1 3 2 4	10G optical port, optical cable connected to two devices Communication is normal, OPT icon shows green, communication abnormal shows white
小	Synchronization icon for input / multi-machine splicing synchronization
	Displays the U disk icon, indicating that the device USB port has a U disk inserted, and the U disk file option is selected in the Communication Settings menu USB setting



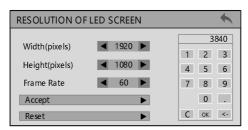
	The MACH icon is shown in red, and the device currently works in Mach mode The MACH icon is gray, and the current operating mode of the device is normal mode
Fiber converter mode	The LCD panel of the backup device displays the yellow words "Fiber converter mode" The LCD panel also displays the "" red icon, device for backup in Mach mode, or The LCD panel also displays the "" gray icon, and the device is a backup in normal mode

Main menu introduction

In the main menu, the user uses "OK", "" keys and knob to select and adjust each item. The operation mode is listed below:

operate	explain
Open the main menu	Press OK or click upper left MAGNIMAGE by default
Select each project	Rotate the knob or click on the screen to select each item
Adjust the parameters	When the right end of the item is a number or option parameter, rotate the knob or click the screen to adjust
Go to the next level of the menu	When the item has a highlight box, press "OK" or click the screen
Execute a function	Select the item to execute with the knob, press OK or click the screen
Return to the superior menu	Press the " " key
Confirm the operation	In the reset and other operations, in order to avoid misoperation, you need to "OK" key or click the screen to confirm the operation

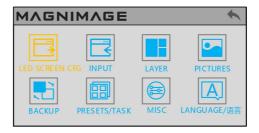
Number keyboard description: for any parameter to be modified, in addition to pressing the knob and rotating and touch the left and right direction button operation, but also touch the corresponding parameters on the screen pop up number. Where 0 to 9 represents the number, indicates the decimal point, indicates the exit from the number keypad mode, indicates the confirmation modification parameter, indicates the backward deletion of the input number. The numeric keypad is shown in the figure below.





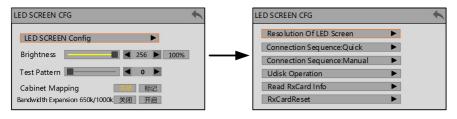
primary menu

In the default state, press "OK" key or click "MAGNIMAGE" in the upper left corner, the menu system will enter the main menu state, as shown in the LCD screen:



Main menu 8 menu items, use the knob to select the 8 menu titles listed above, press the knob to enter the selected items, press the "" key to return to the upper menu, or touch to enter the corresponding menu.

The LED screen configuration



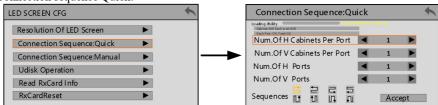
LED screen resolution:





Complet

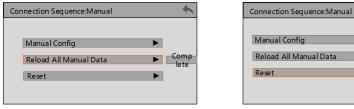
Connection sequence Quick:



Connection sequence Manual:



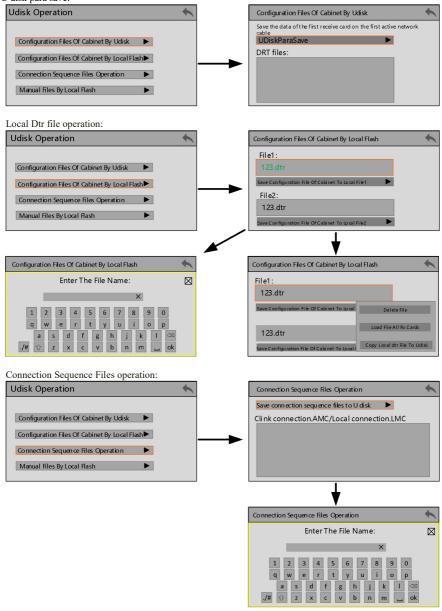
Reload all manual data:



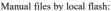


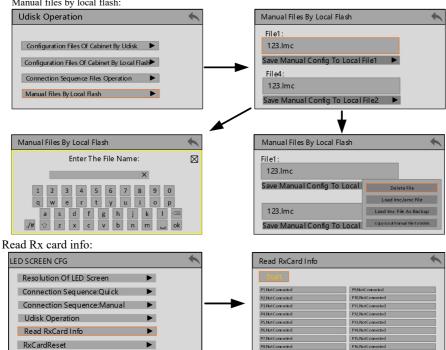
U disk operation:

U disk para save:

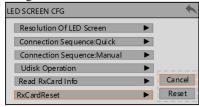








Config:



LED screen

	resolution	maximum height 7680 pixels			
LED	Connection sequence Quick	The display should be regular, non-shaped, and the same size and resolution When the width and height of the cabinet in the cabinet the network cable routing mode is the same, and the serial number of the network port is connected in turn, the screen can be quickly completed through the quick configuration function			
screen configure	Connectio n sequence Manual	Receive card width High mode	Automatic-continue: Set the parameters of width and height of the cabinet and horizontal / vertical position of the network cable offset at each network port, and select the routing mode to confirm Custom: the cabinet width and height pixel can be customized, only one cabinet specification can be carried in a single network port, each network port can independently bring		

Customizable output resolution the maximum width 16380 pixels the



		different cabinet specifications, set the network port cabinet	
		width and height quantity and horizontal / vertical position	
		parameters of network cable offset, and select the routing	
		mode to confirm	
	U disk	You can import the screen configuration parameters and screen files to the	
	operation	machine through the U disk, or save the configuration parameters and screen	
	operation	files to the U disk from the machine	
	Read Rx	Read the resolution of the cabinet and the number of receiving cards under	
	card info	the normal communication of each network cable	
	Rx card	Reset the reception card brightness, color temperature, Gamma and other	
	reset	parameters	
screen LED display brightness (default, 256) 1000/		arightness (default: 256) 100%	
brightness	LED display brightness (default: 256) 100%		
Test	The default is	O status, and 10 man card tast saraans are supported	
_pattern	The default is 0 status, and 10 map card test screens are supported		

Note: the premise of using fast wire screen / advanced wire screen, the display should be regular, non-shaped screen, and the cabinet size and resolution are consistent;

Advanced routing and connecting screen diagram:



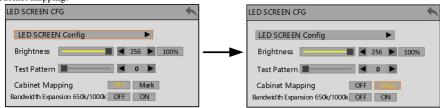


Receiving card width and height mode: custom

Description: Automatic: only with the same size cabinet type;

Custom: for example, network cable 1 with conventional 500x500cm size cabinet, network cable 2 with conventional 500x1000cm size cabinet, only one single network can take a cabinet specification;

Cabinet mapping:



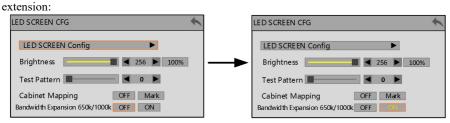


Cabinet mapping (MAPPING) diagram:



Note: The number in the upper left corner is the serial number of the network port, and the middle number is the serial number of the box. It can be connected according to the marking screen displayed on the LED screen.

Bandwidth



Cabinet mapping	Open the cabinet mapping, the LED display screen displays the serial number with the network port and the cabinet serial number, convenient and intuitive to do the display connection diagram
Bandwidth expansion of 650,000 / 1 million	Available in regular mode, this function is not available in Mach mode The default off state, the receiving card to support this function, with the single network port load

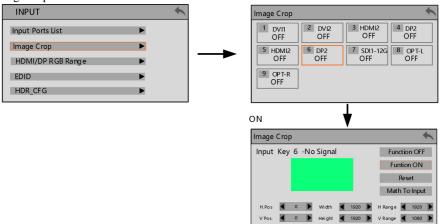
Input settings

Input source list:

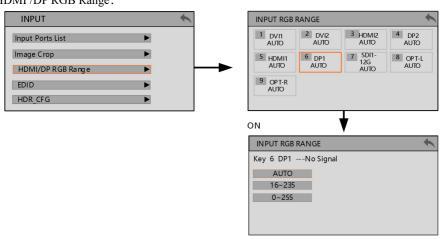




Image crop:



HDMI /DP RGB Range:



Input source list	Display the input information of all local input ports with the input resolution or no signal		
	All input signals from input 1 to input 9 can be arbitrarily captured. Select the input serial number and input signal to be captured through the knob to enter the detailed operation menu for image capture. DVI Indicates the input signal to be intercepted		
Image crop	Function is	Turn off the image capture function	
	Function to open	Turn on the image capture function	
	reset	Reset image interception parameters	
	Match input	The lower image capture parameters are the same match with the	

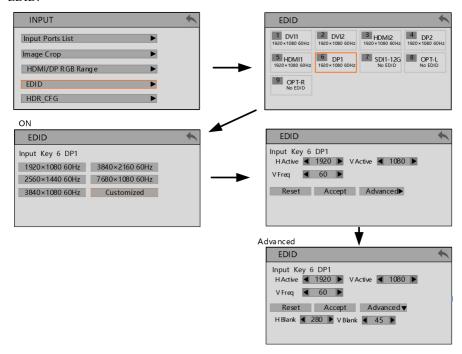


	signal	image paran	neters of the input signal
		horizontal	Modify the horizontal position of the image
		position	interception
		Horizontal width	Modify the horizontal width of the image intercept
	Image crop parameter setting	horizontal reference	Modify the horizontal reference of the image interception
		upright position	Modify the vertical position of the image intercept
		vertical height	Modify the vertical height of the image cut
		Vertical reference	Modify the vertical datum for the image capture
RGB range	The debugging "0-255" and "16		an be input to any road, divided into "automatic",

Description: For image capture, first select input 1 to input 9, and then select the signal for image capture in the corresponding area below.

The image capture function is to select a part of the input signal, and then output it to the LED display screen according to the layer size. Therefore, the size and position of the image interception are limited to the resolution of the input signal. The setting parameters in the table above, are mutually restricted.

EDID:





	and the input sig	from INPUT 1 to INPUT 6 can be set. Click the input serial number nal through the knob to enter the EDID configuration detailed	
	Operation menu DVI 1	Indicates the input serial number and input signal currently in the	
	DVII	EDID configuration	
	horizontal resolution	Modify the horizontal resolution of the EDID	
EDID	vertical resolution	Modify the vertical resolution of the EDID	
	reset	Reset the EDID, with all the parameters	
	apply	Write the EDID parameter to the computer graphics card	
	Advanced	The advanced submenu does not adjust any parameters in the modification menu without the support of the technical personnel of the company. If the menu is accidentally modified, click the reset button	
		H Blank	
		V Blank	

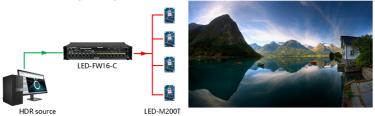
Note: After setting the EDID, different computers, different graphics card output, may need to restart the computer or unplug the signal line, in the computer display Settings menu, select the corresponding resolution.

HDR CFG:



High dynamic range display (High-Dynamic Range), used with M200T, enabling HDR_CFG
HDR function, can greatly enhance the picture quality of the display screen, make the picture color more real and vivid, details more clear

HDR system architecture diagram diagram:

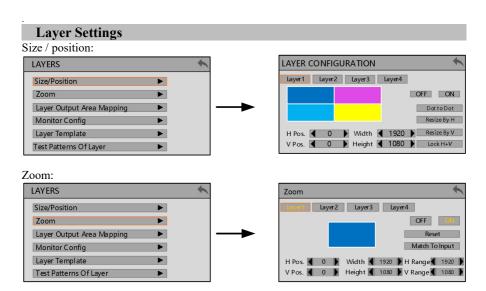




HDR rendering diagram:



HDR description: using the HDR function, the output of each network cable is halved, and the HDR source device needs to input 10 Bit resolution and turn the HDR function on.



Size /	You can change the horizontal position, vertical position, vertical width, and vertical height		
position	of each layer		
	Layer 1~4	Select the layer to zoom in on	
	Function is off / on	Turn off or turn on the layer amplification function	
	reset	Reset the layer amplification parameters	
Zoom	Match input signal	Match the corresponding horizontal / vertical reference according to the input signal resolution	
	The layer amplifies the parameters	Adjust the size position and reference of the layer amplification	



Scale-in layer:



Note: The horizontal / vertical reference parameters can be simulated as the resolution points of the front-end input signal. If the zoom-up function is used to obtain the left portrait picture, the parameters are set as shown in the table:

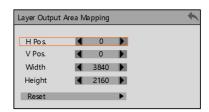
ſ	horizontal	540	upright	540
L	position		position	
Γ	Horizontal	1920	vertical	1080
l	width		height	
Γ	horizontal	7680	Vertical	2160
L	reference		reference	



Zoom in on the resulting picture

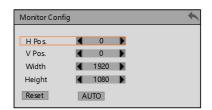
Layer output area mapping:



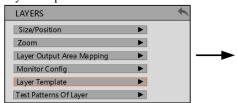


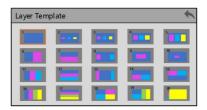
Monitor config:





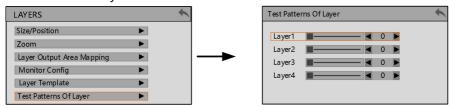
Layer Template:



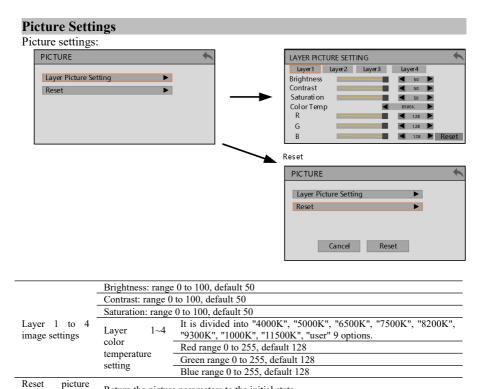




Test Patterns Of Layer:



Layer output area mapping	Consistent with the output resolution, this function is a virtual output function,
Monitor config	Edit the window size / location for the output monitors
Layer template	Quick layout layer, a total of 20 layout layer templates
Test Patterns Of Layer	Each layer can independently open the test map cards, and there are 17 test pattern styles



Return the picture parameters to the initial state

parameters









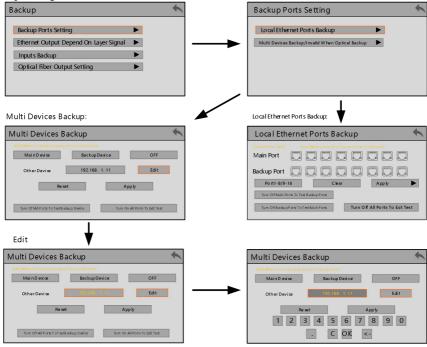
Wearming (<6500K)

Normal(6500k)

Cool(>6500k)

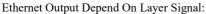
Backup Settings

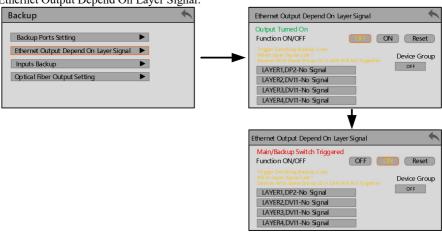
Backup settings:



Local Ethernet	Normal mode: a single machine can specify any network port backup Mach mode: This function is not available, Mach mode is mainly fixed 1-8 network		
Ports Backup	port, 9-16 network port for backup		
Multi-machine backup	main machine	When multiple machines are in the same LAN, one of the devices can be selected as the host, and setting another IP address can achieve fast backup (only the host can set, and setting the external address on the host is the IP address of the backup machine)	
	Back up machine	Set up the IP address of the host on the backup machine	







Signal the LAN will be triggered at the same time

After the multi-machine backup, this function can be used. When the layer signal

is lost, the backup line switch will be triggered, and the same grouped device in

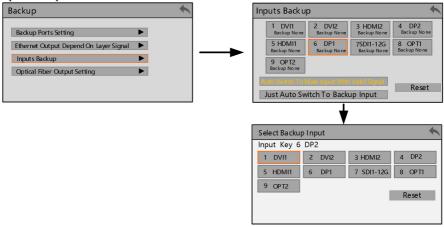
Description: When grouping, there are one host and one backup machine, and respectively in the same LAN



Depend On Layer

Ethernet

Output

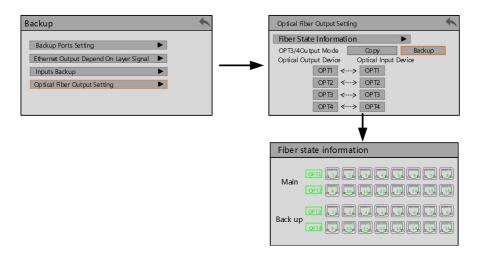


Inputs backup

It is used for signal hot backup. After the backup is set, if the current input signal is lost, it will jump to the backup preset according to the priority to prevent the black screen after the signal is lost



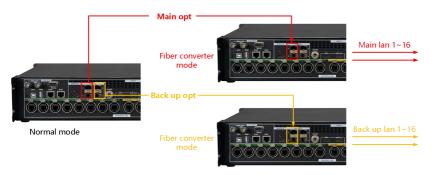
Optical fiber output settings:



Fiber state information	Show the state of OPT1~OPT4 and the lan ports
Copy	For the long-distance transmission of the equipment
Backup	For loop out backup between two devices (network port backup)

OPT output:

Normal mode, main: OPT1~OPT2, back up: OPT3~OPT4:

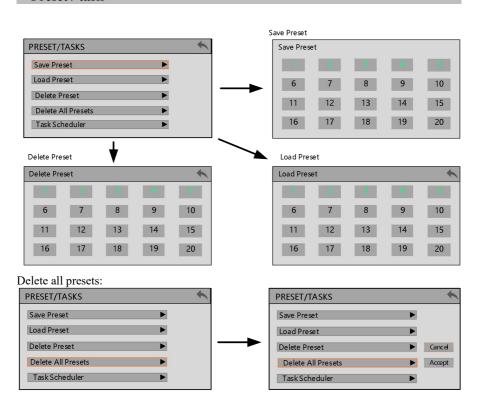




Machmode, main: OPT1, back up: OPT2

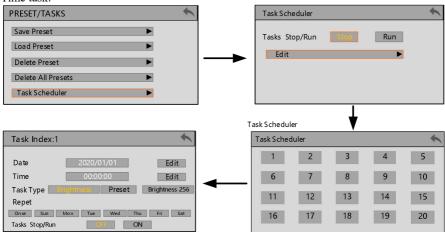


Preset / task





Time task:



Save preset	This machine can save 20 presets, click the screen number or rotate the knob to save the preset					
Load preset	This machine can save 20 presets, click the screen number or press the rotation knob to load the preset					
Delete preset	Enter the delete interface, click the screen number key or press the rotation knob to delete the saved preset					
Delete all presets	Delete all of the saved presets					
	edit	Displays 20 tasks in the current working mode of the machin and click the number 1~20 tasks to go to the task Settings menu				
	date	Select the date on which the current task performed the action				
Time scheduler	time	Select the time when the current task performs the action				
Time scheduler	Task type	Brightness or preset				
	repeat	Select the frequency of the current task execution operationce, Monday to Sunday				
	Stop / run	Stop or run the current task setting operation				

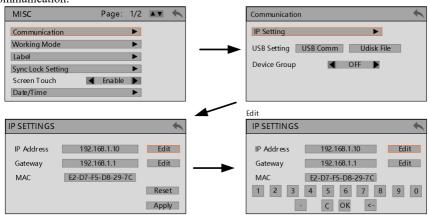
explain:

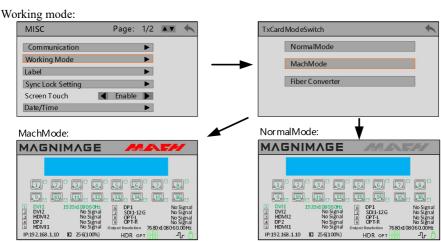
- 1. The local saved preset key font is green, and the unsaved preset key font is gray.
- 2. Clearing the presets will clear all of the local presets, so please use this function with caution.
- 3. 20 time tasks, each task performs only the brightness task or the preset task one task operation.



MISC

Communication:



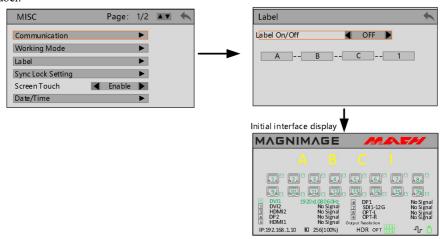


Fiber converter mode:





label:

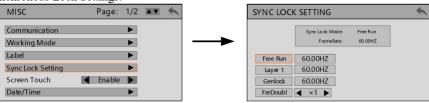


	IP position	You can change the native IP address			
Communicatio n	USB set up	USB communic ation	Switch this mode, can use square USB communication, connect to the upper machine		
		U disk file	Switch this mode, you can use the flat port USB to upgrade the machine or import and export receiving card parameters and screen files		
	The equipment supports normal, Mach and fiber converter three modes Normal mode: single network port with 98W pixel load, the whole machine 16 network				
Working mode	port output; Mach mode: single network port with 220W pixel, the whole machine network port				
	fixed 8 main 8 standby;				
	Fiber converter mode: the working mode required by the backup device through the OPT optical port				
label	It is convenient to mark the areas of the device, define the serial number for the device,				
	open the function can be displayed on the LCD screen of the machine, and the note is				
	displayed in the initial interface layer area				

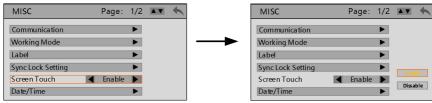
Note: Normal mode supports large load (single network port with 983040 pixels), leave empty without load function (Mach mode does not support these two functions);



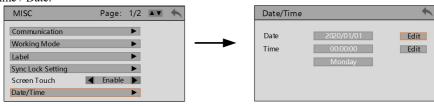




Screen touch:



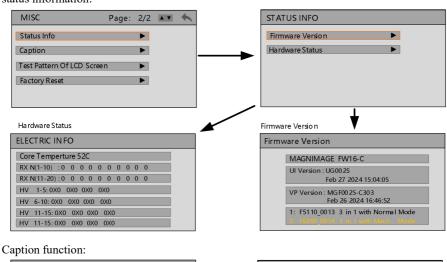
Time / Date:

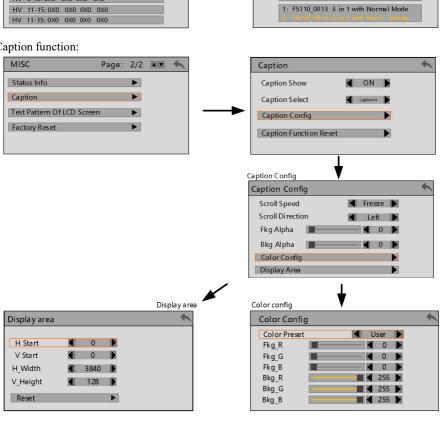


Synchronous locking settings	Free run, Layer 1, and Genlock defaults to Layer 1 Frequency doubling: 1,2,3,4, four options, input and output frame rate relationship		
Screen touch	The screen is touchable when on, and not when off		
Date/time	Modifies and displays the native date and time		
	edit Click the Edit button to edit the local date and time		



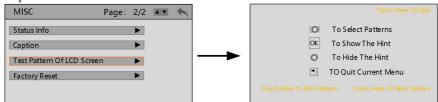
status information:



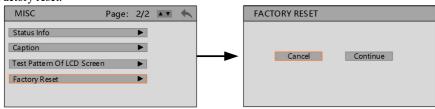




Test pattern of LCD screen:



Factory reset:



status	Firmware version	Displays the native name and the hardware firmware version		
information	Hardware status	Displays the electrical status of each local hardware		
	Caption show	On, and Off		
	Caption select	Three subtitles can be selected		
Caption function	Caption Config	Rolling speed	There are 8 options from Freeze, Speed 1 to Speed 7	
		Rolling direction	Contains the Left, and the Right	
		Prospect transparency	0-255	
		Background transparency	0-255	
		Subtitle color	Color preset: black green, black red, black white, white green, white red, white black and user options, users can customize	
		Display area	Set the horizontal and vertical start position of the subtitle; and the width and height of the subtitle display	
	Caption Function reset	Clear the saved captions		
Test pattern of LCD screen	The LCD screen of the test machine			
factory reset	Restthe setting and prompt A.C. Restart!!! Power restart can be			

Note: The subtitle function should be edited and saved in the upper computer software.



Language / LANGUAGE



English	Set the display language of the menu system to English
simplified Chinese	Set the display language of the menu system to simplified Chinese

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Warranty instructions

Complete machine warranty period

- 12 months from the date of the user's purchase invoice;
- If the user purchase invoice is lost, the 60 days after the production date of this product is the warranty start date for the product.

Non-warranty provisions

- Fault or damage caused by other abnormal use reasons, such as immersion, collision and use of the machine;
- Disassembly and refit without the consent of our company;
- Fault or damage caused by use in the working environment specified by the product (e. g. too high temperature, too low or voltage instability, etc.);
- Fault or damage caused by irresistible force (such as fire, earthquake, etc.) or natural disasters (such as lightning strike, etc.);
- Product is out of the warranty period.