



LED Video processor

Instruction Manual

Before using this LED video processor, please carefully read the instructions and save them properly for future reference.

Video processor MCW-M1

Table of contents

Introduction.....	3
Function description	4
Overviews	4
Back panel icon	5
Front panel icon	6
Technical parameter	7
Key details	8
On state	9
Menu introduction.....	10
Main Menu.....	10
Guide Submenu.....	11
Output Setting Submenu.....	11
Window setting Submenu	12
Input setting Submenu.....	13
Image Crop Submenu.....	13
Preset setting Submenu.....	14
Picture Setting Submenu.....	14
Multi machine Mosaic Submenu.....	15
Test Pattern Submenu	16
Audio setting Submenu.....	16
Time& Tasks Submenu.....	17
Advanced Setting Submenu.....	18
Language /语言 Submenu.....	18

Introduction

Thank you for your purchase of our MCW-M1 video processor. The design of this LED video processor is in line with international and industry standards. However, if it is not operated properly, it may cause personal injury and property loss. To avoid possible hazards, please follow the instructions in this manual.

Product characteristics

- 1、 Single machine with 2.6 million pixels, support custom output resolution, a single output level up to 3840 pixels, vertical up to 3840 pixels.
- 2、 Two DVI outputs, three simultaneous visuals
- 3、 Audio video follow up toggle volume adjustment
- 4、 Input Ports: Dvi * 1, Hdmi * 2, DP * 1, Vga * 1, audio * 1, expandable 2 channels SDI input.
- 5、 Support Multi level frame splicing.
- 6、 Easy setup wizard.
- 7、 Save and load templates.
- 8、 Picture rotation output.
- 9、 Schedule.
- 10、 One click freeze.
- 11、 Built in test card.
- 12、 USB Upgrade.
- 13、 Keypad locks.

Function description

Overviews

MCW-M1 product is a dedicated Mancowin LED large screen display system set video processing, splicing, switching and other video splicer, using the industry's top core processing chip. Advanced image processing technology, eliminate the video image motion trailing and Sawtooth phenomenon, for ordinary PAL/NTSC video, the output image is more clear and delicate, for 2K signal, the output image details are rich, full color, image quality is at an industry-leading level. Image scaling technology, support custom output resolution, output maximum 3840 pixels horizontally, vertical resolution maximum 3840 pixels. Complete video input interface, including Dvi * 1, Hdmi * 2, DP * 1, Vga * 1, audio * 1, expandable 2 channels SDI. The 2.6 megapixel machine is compatible with different transmission card structures and can have 2 transmission cards inside the machine. Complete machine pure hardware structure, work stable, reliable. International Standard 1.5 u case.

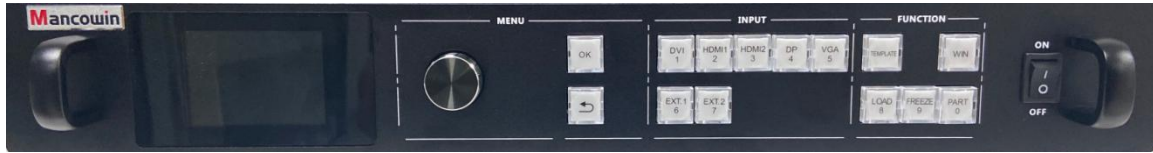
Back Panel



Input interface	
DVI1	DVI Input interface
HDMI1、HDMI2	HDMI Input interface
DP	DP2.0 Input interface
VGA	VGA Input interface
AUDIO IN	Audio input interface
EXT	Extending the SDI input interface

Output interface	
DVI1	Main output
DVI2	Duplicate output
AUDIO OUT	Audio output

Front panel



Key description			
OK	Confirm key/ Boom menu	EXT1	Extended input SDI/ Template6
	Return to the previous level	EXT2	Extended input SDI/ Template7
DVI1	DVI1 Input port / Template1	TEMPLATE	Multiple layers template Shortcut key
HDMI1	HDMI1 Input port / Template2	LOAD	Scene Call Shortcut key
HDMI2	HDMI2 Input port / Template3	WIN	Layer selection /Template8
DP	DP Input port / Template4	FREEZE	Output image freeze key / Template9
VGA	VGA Input port / Template5	PART	Partial full screen keyboard shortcuts / Template0

Technical parameter

Input parameter		
Input type	Quantity	Specifications
HDMI	2	1920x1080/60Hz / EDID Management
DVI	1	1920x1080/60Hz / EDID Management
DP	1	1920x1080/60Hz / EDID Management
VGA	1	1920x1080/60Hz / EDID Management
Audio	1	Digital / analog
SDI	2 (Extend)	720p/60Hz 1080i/50Hz/60Hz 1080P/50Hz/60Hz(3G SDI)

Output parameter		
Type of export	Quantity	Specifications
DVI	1x2	1024 × 768/60Hz 1280 × 1024/60Hz 1024 × 768/120Hz 1280 × 720/59Hz 1280 × 720/60Hz 2304 × 1152/60Hz 1920 × 1080/60Hz 1920 × 1200/60Hz 2048 × 1152/60Hz 3840×600/60Hz 600×3840/60Hz Support single port custom Max 3840/max 3840 output
DVI LOOP	1	DVI Signal loop
AUDIO OUT	1	Audio output

Machine parameter	
Input Power	100-240V AC 50/60Hz
Complete power consumption	35W
Operating temperature	0-45℃
Contour dimension(L×W×H)	482.6×401×88mm
Net weight	5Kg

Key details

The MCW-M1 menu system is described in detail below.

The front panel is divided into three zones, which are:

MENU 、 INPUT、 FUNCTION

MENU Area

This area contains 2 keys (OK key and ), 1 KNOB, Short Button and OK function the same.

 Back to the previous level of the menu.

INPUT Area

This area contains: DVI*1、HDMI*2、VGA*1、DP*1、EXT1*1、EXT2*1
Numeric Keys 1-7: Template number/key to set numeric parameters.

FUNCTION Area

This area contains: TEMPLATE、LOAD、WIN、FREEZE、PART key.

TEMPLATE	Multiple layers template Shortcut key	FREEZE	Output image freeze key / Template9
LOAD	Scene Call Shortcut key	PART	Partial full screen keyboard shortcuts / Template0
WIN	Layer selection /Template8		

*TEMPLATE: Has set many screen mode, can be directly selected.

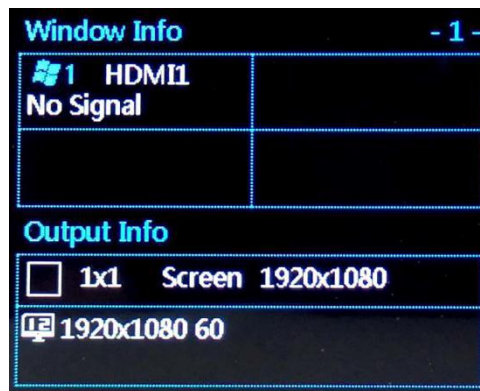
*WIN: Select the layer (press WIN to select the layer and then select signal) .

*FREEZE ; Only the current display is frozen.

*PART: Partial full screen keyboard shortcuts.

On state

The default state after boot is shown in figure



Window info:

 ----- There is currently only one screen display
HDMI1 ----- Input source is HDMI1
No Signal ----- No signal input

Output Info:

 1x1 ----- One channel output
Screen 1920x1080 ---- Output actual size
 1920x1080 60 ----- Output resolution

Main menu introduction

Main Menu

MENU SYSTEM INCLUDES: Guide , Output setting, Window setting, Input setting, Image crop, Preset Setting, Picture Setting, Multi Machine Mosaic, Test Pattern, Audio setting, time &tasks, Advanced setting, language .

Enter the main menu screen, LCD screen as shown in figure:

Main Menu	
Guide	▶
Output Setting	▶
Window Setting	▶
Input Setting	▶
Image Crop	▶
Preset Setting	▶
Picture Setting	▶
Multi Machine Mosaic	▶
Test Pattern	▶
Audio setting	▶
Time &Tasks	▶
Advanced setting	▶
Language/语言	▶

Guide Submenu

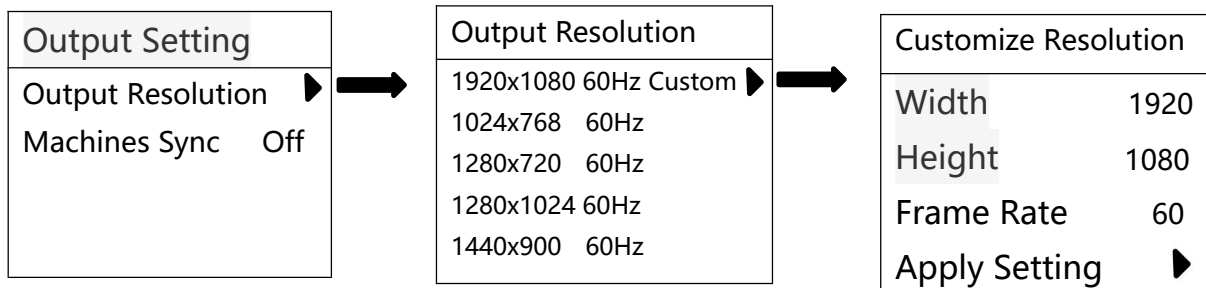
Main Menu selection Guide and Press Ok to enter the image below

Mosaic Size	
Output Select	Output 1
Width	1920
Height	1080
Apply Setting	▶
	

Setting: Output 1 width and height (the actual number of points carried by the output port) , set the selected (apply setting) , click OK

Output Setting Submenu

Main Menu selection output setting press OK key to enter the following interface



*Output Setting: Customize the output resolution Width and Height, set the selected (application setting) , click OK

Window setting Submenu

Main Menu Selection window setting press OK key to enter the following interface

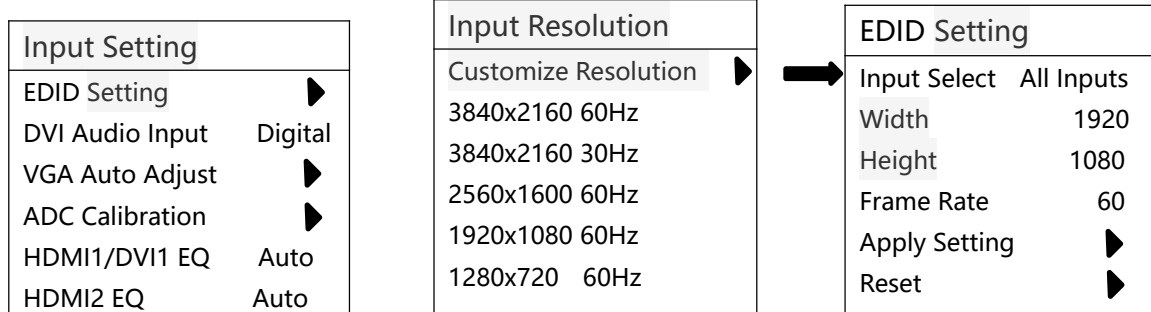
Window Setting	
Window Template	▶
Window Select	Win1
H Start	0
V Start	0
Width	1920
Height	1080
Image Rotate	OFF



Window Template	Save 5 kinds of open window mode, user can call directly.
Window Select	Window 1, Window 2, Window 3.
H Start	Select the horizontal position of the window.
V Start	elect the vertical position of the window.
Width	Select the horizontal size of the window.
Height	Select the vertical size of the window.
Image Rotate	The selected windows are: Close, flip horizontally, flip vertically, rotate 90 degrees, rotate 180 degrees, rotate 270 degrees.

Input Setting Submenu

Main Menu Selection Input Setting press OK key to enter the following interface



***EDID Setting:** Enter all signals or one signal EDID (All Inputs/DVI/HDMI1/HDMI2/DP)

***DVI Audio Input:** Digital Signal or analog signal

***VGA Auto Adjust:** VGA signal auto-adjustment

***ADC Calibration:** ADC calibration (Vga)

Image Crop Submenu

Main Menu Selection Image Crop press OK key to enter the following interface

Image Crop	
Window Select	Win1
Crop Onoff	Off
H Start	0
V Start	0
Width	960
Height	540
Reset	▶
Reset All	▶

***Window Select:** Crop layer input (Win/Win2/Win3)

***Crop Onoff :** "Off" or "On"

***H Start :** Crop the horizontal position of the input

***V Start :** Crop the vertical position of the input

***Width:** Crop the width of the input

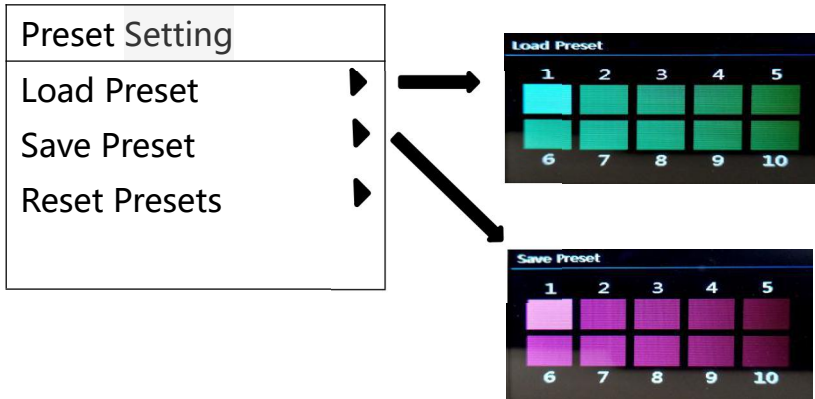
***Height:** Crop the height of the input

***Reset:** Reset the current operation

***Reset All:** Reset Image Crop all operations

Preset Setting Submenu

Main Menu Selection Preset Setting press OK key to enter the following interface



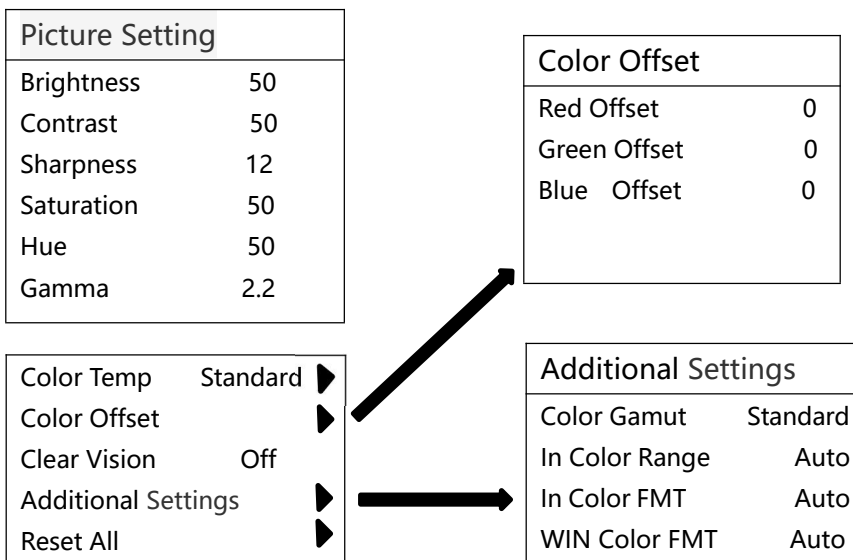
*Load Preset: Enter the Load Preset, press the number key to carry out the user's preset loading.

*Save Preset: Enter the Save Preset, press the number key to save the user's Save.

*Reset Presets: Reset all saved.

Picture Setting Submenu

Main Menu Picture Setting press OK key to enter the following interface



*Color Temp : Standard, Cool, Warm, User.

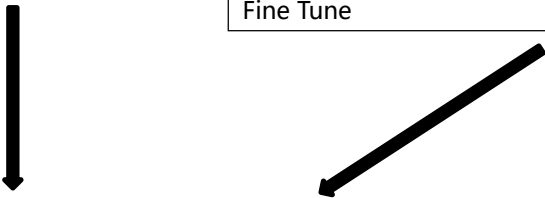
*Color Gamut: Standard, SRGB, AdobeRGB , BT709, DCI_P3, BT2020, DICOM.

Multi Machine Mosaic Submenu

Main Menu Multi Machine Mosaic press OK key to enter the following interface

Multi Machine Mosaic	
Window Select	Win1
Mosaic OnOff	Off
Mosaic Mode	Equal
H Units	1
V Units	1
Position	1
Fine Tune	▶

Multi Machine Mosaic	
Window Select	Win1
Mosaic OnOff	Off
Mosaic Mode	Unequal
H Total	1920
V Total	1080
H Start	0
V Start	0
Fine Tune	▶



Fine Tune	
H Start Tune	0
V Start Tune	0
Width Tune	0
Height Tune	0

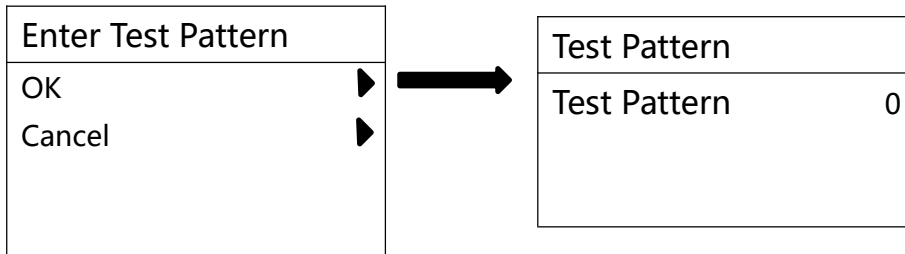
Window Select: Win1/Win2/Win3

Mosaic OnOff : On、 Off

Mosaic Mode: Equal、 Unequal

Test Pattern Submenu

Main Menu Selection Test Pattern press OK key to enter the following interface



*Test Pattern: No need to Input the test display, Test Pattern 0-10

Audio setting Submenu

Main Menu Audio setting press OK key to enter the following interface

Audio setting		Audio setting	
Volume	25	Volume	25
Mute	Off	Mute	Off
Working Mode	Bind Win	Working Mode	Follow CHG
Window Select	Win1		

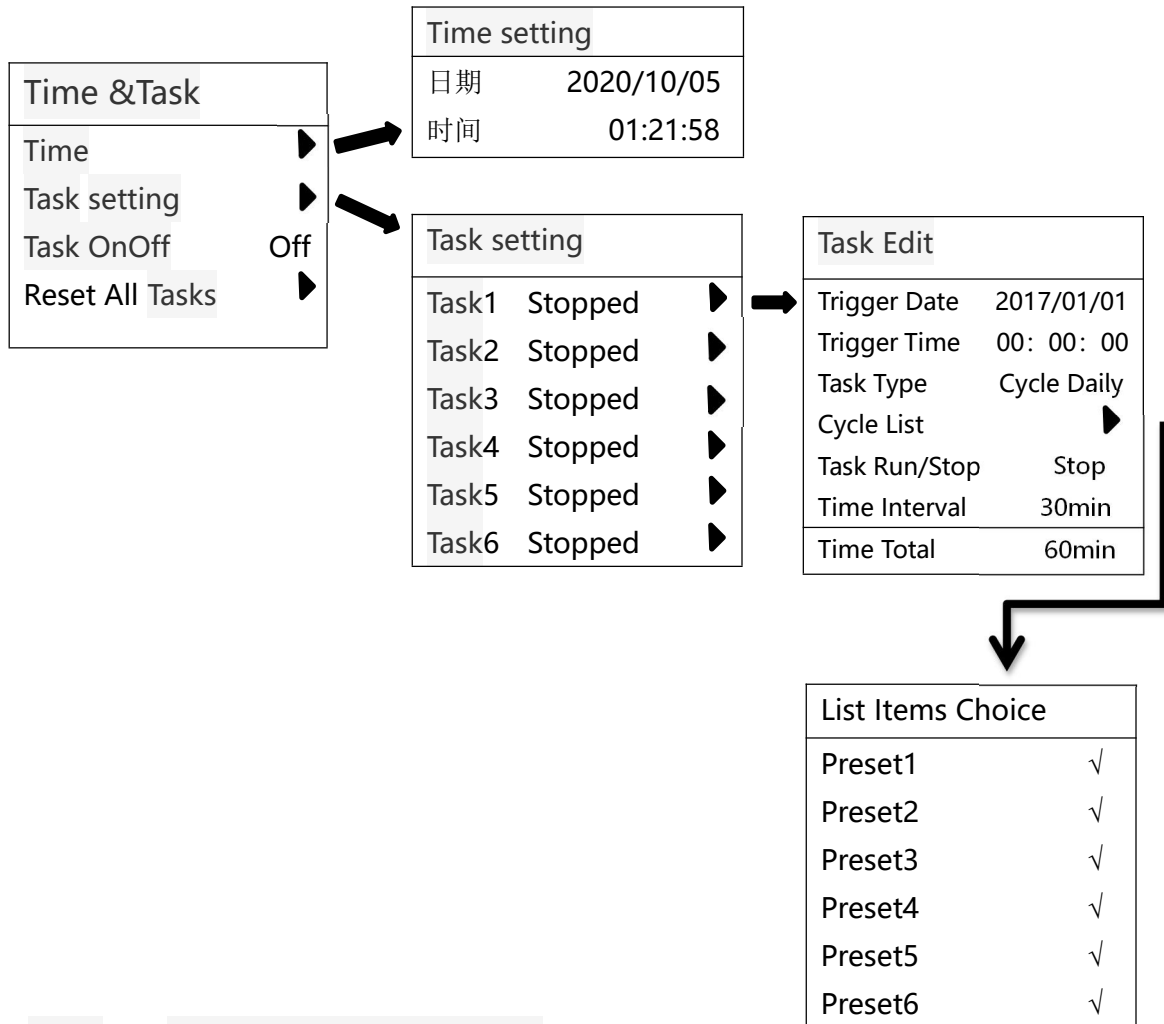
*Volume: 0-25

*Working Mode: "Bind Win" Windows for audio output binding
"Follow CHG" Audio follow signal switching

*Window Select: Win1/ Win2/ Win3

Time &Tasks Submenu

Main Menu Selection Time &Tasks press OK key to enter the following interface



*Time : First set the current time.

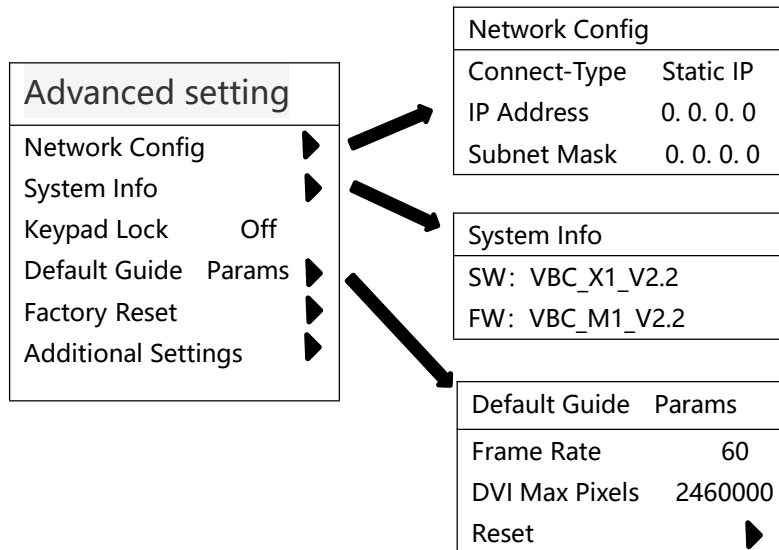
*Task OnOff : On/Off

*Task Type : Cycle Daily / Cycle Day / Every Day / Only Once

*Task Run/Stop: Stop /Running

Advanced setting Submenu

Main Menu Advanced setting press OK key to enter the following interface



*Keypad Lock : Open the front panel button is invalid, according to the prompt to unlock.

*Factory Reset : Restore pre-factory settings.

Language/语言 Submenu

Main Menu Selection Language press OK key to enter the following interface

Language/语言	
English	▶
简体中文	▶
繁体中文	▶
한국어	▶