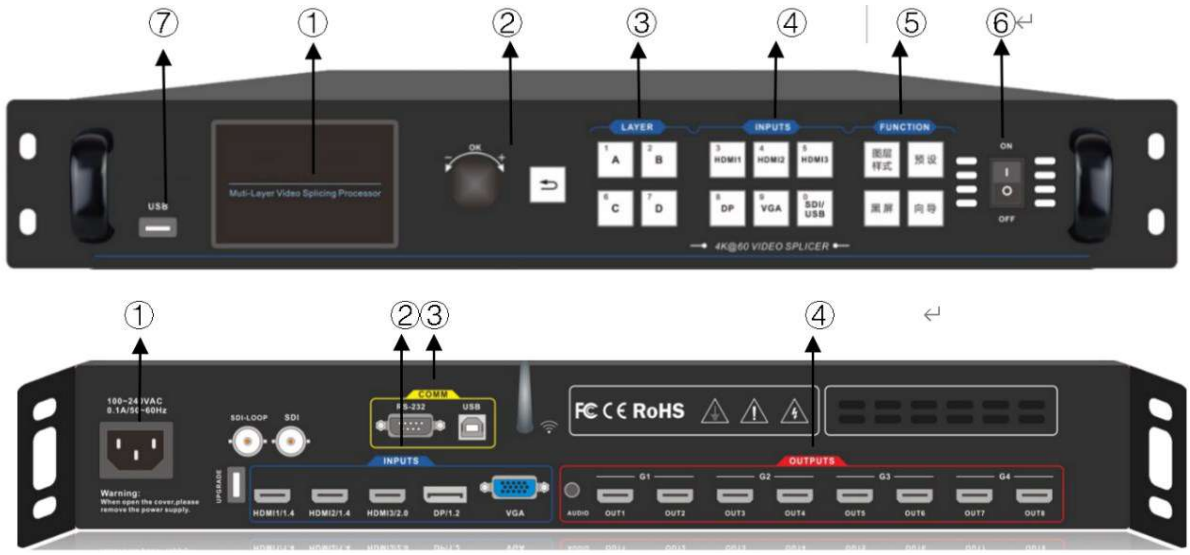
FINEVIDEO

FV-DVP974S

LED Video Processor

User Manual | English Edition



Operating instructions • Setup • Menus • Technical reference

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About this edition

This edition improves typography, reading order and heading structure while retaining the operating information of the provided English manual. Drawings and tables are reproduced from the source document. Some menu paths and technical specifications in the original are incomplete or inconsistent. These are not silently amended.

1 Overview and functions

The LED video processor combines video input selection, processing, scaling, switching and output for LED display systems. This document is based on a generic family manual; check the exact rear panel and model specifications before making connections.

Input and output formats

- DisplayPort: VESA input up to 4096 × 2160 at 60 Hz (source claim).
- HDMI 2.0: VESA input up to 4096 × 2160 at 60 Hz (source claim).
- HDMI 1.4: source lists up to 4096 × 2160 at 30 Hz and 1920 × 1200 at 60 Hz.
- VGA: up to 1920 × 1200 at 60 Hz (source claim).
- Composite video: PAL, NTSC, PAL-M/N and SECAM (family-manual claim).
- Audio: analog and embedded DP/HDMI audio are described in the original.
- HDMI output: programmable resolutions; number of outputs varies in the original documentation.

Product functions

Video inputs and switching

The source describes six inputs and fast-cut or fade-in/fade-out changes between sources.

Audio/video synchronization

Audio sources may be associated with video sources for synchronized switching.

Programmable video outputs

Output channels can be configured for LED sending cards or displays. Note: the family manual inconsistently references four and eight outputs.

Seamless switching

The source specifies transition durations from 0 to 1.5 seconds, including fades and quick switching.

Output resolution

Output formats can be selected and adjusted to match displays and LED pixel arrangements.

Black screen

A dedicated button blanks the displayed output.

Freeze

The current output can be frozen while inputs or settings are prepared.

Partial and full-screen modes

The processor supports cropping and positioning of video content and switching among configured views.

Presets

Ten user presets are described for rapid restoration of settings.

Image scaling

A 30-bit processing engine and image enlargement.

Brightness and color

Brightness adjustments and ACC/ACM image filtering are described.

Settings storage

User parameter adjustments are stored in EEPROM according to the source.

External control

An RS-232/USB computer control interface is described; refer to the unit itself for interface availability.

2 Connections and control panels

Rear panel



Figure 1. Rear panel drawing.

- AC power input: IEC mains connection. The source specifies 100–240 V AC, 50/60 Hz.
- Video inputs: depending on the exact variant, HDMI, DP, VGA and an SDI/USB option are described.
- RS-232 / USB: service and control connection. The manual specifies 115200 bit/s for serial communication.
- Audio: audio synchronization and output connections are referenced by the source.
- HDMI outputs: configurable video outputs for LED sending cards or monitors.

Front panel

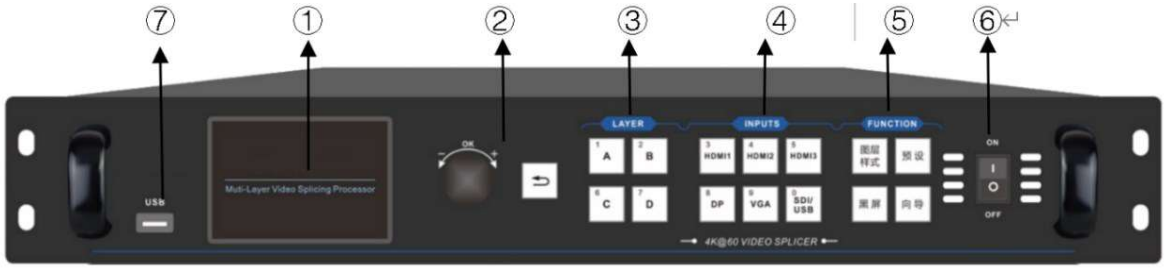


Figure 2. Front panel drawing.

LCD display

Shows the menu and current device information.

Menu buttons and rotary encoder

Use Return to exit or go back. Rotate the knob to select a menu item or modify a value; press the knob to enter or confirm.

Layer selection

A, B, C and D select the layer to be edited.

Input keys

Choose the active input source. The VGA key can also perform automatic image correction when VGA is selected.

Function keys

Access layer layouts, presets, black screen / freeze and the stitching wizard.

Power switch

The front-panel AC power switch.

Indicator status

- Slow flashing (approximately 1 second): no signal detected on the selected channel.
- Fast flashing (approximately 0.3 seconds): the source is being detected and decoded.
- Continuously lit: the signal is detected or the function is active.

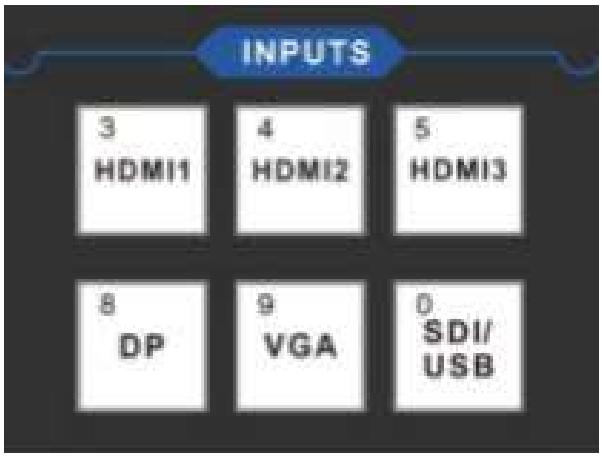


Figure 3. Input selection area.

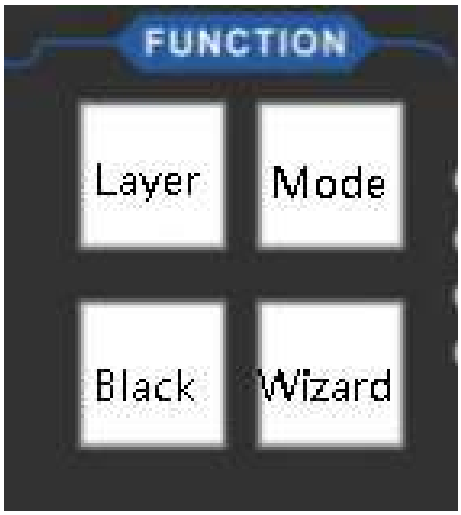


Figure 4. Function controls.

3 Menu navigation

The default screen shows input signal and layer information. Press OK to enter the main menu; rotate the encoder to select a category and press OK to confirm. Use Return to step back.

Output

Output resolution and output adjustments.

Splice

Splicing or LED wall layout parameters.

Img / Image

Brightness, contrast and saturation.

Layer

Layer position, dimensions and selection.

Mode / Preset

Store and recall settings.

Sys / System

System-level functions.

Default display

The default screen shows active layer assignments (A–D), their signal sources and incoming formats. Layers may be disabled. The example in the original shows DP on Layer A, HDMI1 on Layer B, with Layer C and D off.

4 Setup and operation

Language selection

Open the system settings from the main menu and select the desired language. The exact step-by-step navigation in the supplied manual is incomplete.

Factory reset

A full reset is available from system settings. Confirm only if you intend to restore the default user parameters. Warning: the reset erases existing user configuration. The source does not consistently show the exact menu path.

Stitching wizard

The stitching wizard can be opened using the dedicated shortcut or through the menu. Set the overall LED canvas dimensions first, then configure individual output position and dimensions.

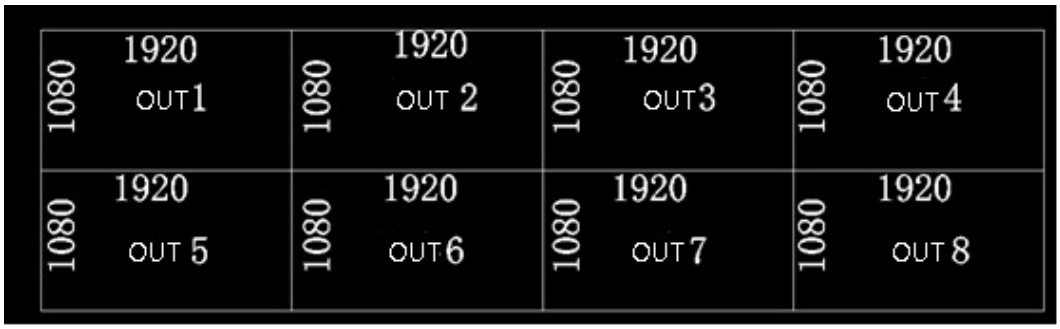


Figure 4. Example of an LED output layout (eight-zone family example).

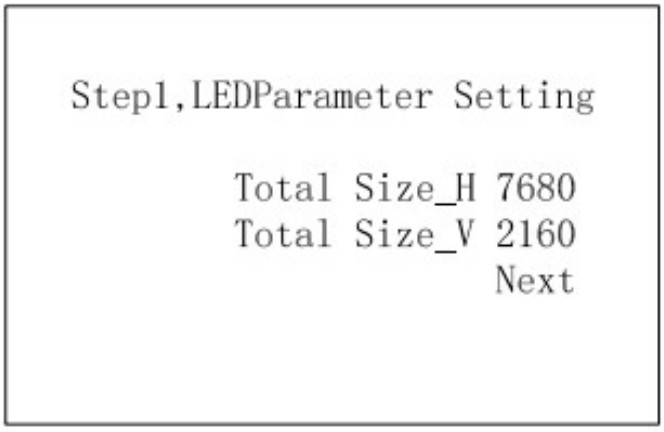


Figure 5. First step of the stitching wizard.

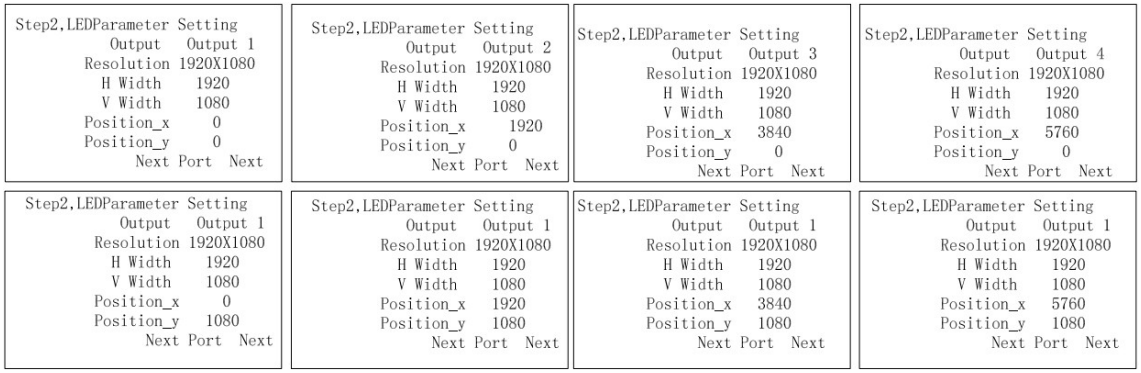


Figure 6. Individual output parameter examples.

5 Layers, presets and image adjustments

Layer settings

- Select Layer A, B, C or D in the Layer menu to adjust its size and position.
- In the default screen, select the desired layer key and then choose its video input.
- Layer modes can be selected through the layer menu; the source does not contain a reliable complete button sequence.

Black screen and freeze

The dedicated black-screen button may be assigned to either black-screen or freeze functionality via the Function menu. After assignment, press the key to execute the selected operation.

Saving a preset

Adjust the input assignments, display geometry and picture settings. Open Preset / Save, select one of the ten available slots and confirm. The source distinguishes empty and occupied slots by display color.

Recalling a preset

Press the Preset key from the default screen. Rotate the knob to the required saved scene and press OK. A menu-based preset recall is also mentioned, but its path is corrupted in the original.

Deleting a preset

The source describes deleting stored preset scenes via the Preset menu. The original button sequence is incomplete; verify the on-device menu before deleting a scene.

Brightness and contrast

Use the Image menu to modify brightness and contrast. The manufacturer recommends coordinating both adjustments to retain the intended image appearance. The original menu path is incomplete.

Key lock

Enable key locking from the System menu to prevent accidental operation. According to the source, hold OK for approximately five seconds to unlock.

VGA image correction

With VGA selected, press the VGA input key again to trigger automatic correction. Automatic correction is also described in the Function menu. If required, adjust horizontal position, vertical position, horizontal clock and clock phase manually.

Audio/video synchronization

The manual describes switching the associated audio source together with a video source. Supported audio inputs vary by model; confirm the actual connectors and menu items on the FV-DVP974S.

6 Technical specifications

The following is an image of the original manufacturer specification table, retained for reference rather than retyped with assumptions. It describes an HDMI four-output version and may include options that differ from the FV-DVP974S.

Specification

DP Input	
Quantity	1
Connector	DP
Standard	DP1.2
Resolution	VESA, 4096 X 2160@60Hz, customized EDID
HDMI 2.0 Input	
Quantity	1
Connector	HDMI
Standard	HDMI2.0
Resolution	VESA, 4096 X 2160@60Hz, customized EDID
hdmi1.4 Input	
Quantity	2
Connector	HDMI
Standard	HDMI1.4
Resolution	3840X2160@30Hz, customized EDID
VGA Input	
Quantity	1
Connector	VGA-B15
Standard	R, G, B, Hsync, Vsync: 0 to1Vpp±3dB(0.7V Video+0.3v Sync)
Resolution	VESA, PC to 1920x1200
3G-SDI Input (optional)	
Quantity	1
Connector	BNC
Standard	SD-SDI, HD-SDI, 3G-SDI
Resolution	1080p 60/50/30/25/24/25(PsF)/24(PsF) 720p 60/50/25/24 1080i 1035i 625/525 line
CVBS(CV) Input	
Quantity	1
Connector	BNC
Standard	PAL/NTSC 1Vpp±3db (0.7V Video+0.3v Sync) 75 ohm
Resolution	480i,576i
HDMI Output	
Quantity	4 Channels-
Connector	HDMI
Standard	HDMI
Resolution	1024×768@60Hz 2048×1152@60Hz 1536×1536@60Hz 2304×1152@60Hz 1600×1200@60Hz 2560×960@60Hz 1920×1080@60Hz 3840×640@60Hz 1920×1280@60Hz **Customized resolution** Single output: 2.65 megapixel@60Hz Four channels: 10.6megapixel@60Hz
Parameters	
Weight	6.5kg
Size(mm)	Product: (L x W x H) 250x440x66 mm Package: (L x W x H) 540 x 450 x 190
Input voltage	AC 100V-240V50/60Hz /100W ; Product Power: 26W
Model	(standard)/(SDI input)

Figure 7. specifications.

7 Notes on source-document inconsistencies

- The source introduction describes eight HDMI outputs, but its specification table describes four. The CVC product page lists four programmable HDMI outputs for FV-DVP974S.
- The input lineup differs between the source description, front/rear panel material and specification chart (for example DVI, VGA, SDI and composite-video references).
- The stitching figures show an eight-output example. This must not be interpreted as confirmation of eight physical outputs on FV-DVP974S.

- Several menu navigation arrows in the source have missing labels. These were paraphrased rather than presented as reliable exact button sequences.
- The specification illustration, menu terminology and operating descriptions were carried over from a generic manufacturer manual; verify model-specific data against the physical unit.

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