



Product specification

Video Processor & Stitcher HDP902

V1.1 20190829

Overview

The HDP902 is a powerful 3-channel multi-graphic multi-input splicing processor that can be used in a wide range of small and medium splicing applications, as well as for image switching and image scaling. The splicing processor has 3 channel splicing, 1 channel monitoring, and the widest can be spliced to 11520 points. It can also achieve equal-splicing, unequal splicing, display of different resolutions, three-screen splicing and other functions. Multi-channel video input - HDP902 can access up to 13 channels of video input, including 2 DVI, 4 HDMI, 2 VGA, 4 CVBS, 1 3G-SDI/SDI-LOOP (optional); Both receive standard resolution or high resolution video signals, DVI and VGA can receive up to 1920 × 1200 @ 60Hz resolution input. Practical video output interface—The processor has 8 channels of video output, 7 channels of DVI, and 1 channel of SDI-LOOP.

Seamless switching of any channel—The HDP902 video processor can also seamlessly switch between any channel, and the switching time can be adjusted from 0 to 1.5 seconds. Use the fade switch effect to switch the input channel smoothly to switch to the second and third screens. With fast switching, you can instantly switch the video output when switching input channels.

Rich output resolution - HDP902 has designed a variety of practical output resolutions for users, 795W pixel custom resolution, the widest up to 11520 points, the highest up to 5760 points, for a variety of dot matrix display. Up to 20 output resolutions are available for user selection and can be adjusted to point-to-point output.

Support pre-switching technology—pre-switching technology is to predict in advance whether the switched input channel has a signal when switching the input signal. This function reduces the possibility of direct switching due to disconnection or no signal input, which increases the success rate of the show. Support picture-in-picture-picture-in-picture technology, superimposing another picture with the same or different input while the original image is unchanged. HDP902's picture-in-picture function not only can adjust the size, position, border, etc. of the overlay layer arbitrarily, but also multi-window seamless switching. When 1 screen is cut, the fade-in and fade-out effects can be realized, and 3 draws and draws 3 shots. Window) can also achieve fade effect.

Support pre-switching technology—pre-switching technology is to predict in advance whether the switched input channel has a signal when switching the input signal. This function reduces the possibility of direct switching due to disconnection or no signal input, which increases the success rate of the show. The engineering lock can be set—the user can set the number of uses of the machine. When the number of uses is reached, the device can stop working. Support for screen freeze - During playback, you may need to freeze the

current screen to achieve a "pause" screen. When the screen freezes, the operator can also change the current input selection or change the line, etc., to avoid background effects affecting the performance.

Partial and full-screen fast switching—HDP902 has simple and practical part of the screen operation and full-screen operation. Any input channel can independently set different interception effects, and each channel can still achieve seamless switching. The user can arbitrarily set the size and position of the screenshot of the current channel, while the interception methods of other channels are unchanged. When switching, partial screen or full screen function is implemented between each channel.

Preset call function—The HDP902 uses 8 sets of user presets, and each set of user presets can store all user setting parameters.

The unequal splicing and splicing splicing-splicing function is an important part of the HDP902. It can realize halving and unequal splicing, which greatly meets the various needs of users in splicing. Frame synchronization, 0 delay, no tailing and other techniques are implemented in multiple processors to make the performance perfect. The unequal splicing and the screen part output are in the same setting mode, and the user can read the operation instructions of the following chapters in detail.

30-bit image lossless scaling technology—HDP902 uses a dual-core image processing engine. A single core can handle 30-bit image scaling technology. The width can be output from 64 to 3840. At the same time, it can achieve 10 times image magnification output, that is, the widest reach. 38400.

That is, the ready-to-use technology—that is, the ready-to-use technology solves the user's cumbersome setup and manual storage process, that is, the user does not need to perform manual save operation after adjusting or adjusting parameters, and the HDP902 automatically stores the user parameters in the EEPROM even if the power is turned off. After powering on, the parameters before power off remain in the device.

Application scenario

Simultaneously display video playback devices such as computers/TVs/cameras.



Simultaneous display of camera screen

数字电视机顶盒	Corr 千兆网络	
HDMI		闲时播盒子内存贮节目 到达指定时间直播 自动切换
	A60X	
(
视频处理器	HDMI	

Synchronous display of set-top box screen

Characteristics

- 1) Seamless switching of any channel;
- 2) 13-channel digital-analog video input (SDI option);
- 3) Support multi-machine splicing, 3-channel splicing, 1-channel monitoring output;
- 4) Channel independent resolution output, 2.65 million pixels @ 60Hz,

3-channel output resolution 7.95 million pixels @ 60Hz;

- 5) 3 screens roaming across channels;
- 6) customize the input EDID;
- 7) Scene preset save and call;
- 8) Scalable stitching;
- 9) The engineering lock can be set;
- 10) Support upper computer control and timing switching function;
- 11) 7.95 million pixel custom resolution output;
- 12) 4 transmit card built-in installation bits.

System function list

Video input		descript	ion
	4-way composite v	ideo PAL/NTSC 1V	op±3db (0.7V Video+0.3v Sync)
	75 ohm		
	2-way VGA VESA	standard, up to 192	0x1200@60Hz
Quantity / signal	2-way DVI VESA s	tandard, up to 1920	x1200@60Hz
	4-channel HDMI V	ESA standard, up to	1920x1200@60Hz
туре	1-way SDI (optiona	al) 1080p 60/50/30/2	25/24/25 (PsF)/24 (PsF)
	720p 60/50/25/24		
	1080i 1035i		
	625/525 line		
	4 BNC sockets cor	mposite video input	-0.
	SE	OI input (optional)	. G
Connector	2 15-pin HD socke	ts RGB input	
	2 DVI-I sockets D\	/I input	.0,7
	4 HDMI sockets H	DMI input	2-2
	640x480~1920x1	080 480i/p, 576i/p, 7	720p, 1080i/p, 2048x1080
Resolution range	Point-to-point sam	pling	
	Go blanking	<u> </u>	
Video processing		descript	ion
Analog sampling	12 bits per color; 1	3.5 MHz standard (v	video)
, and g camping	170 MHz standard	(RGB)	
Digital nixel data hit	8, 10 or 12 bits per	r channel;	
denth	2 channels for HDI	MI	
	3GHz standard (SI	DI)	
Video output		descript	ion
	1-way VGA image	conversion convers	ion RGBHV, RGBS,
Quantity / signal	RGsB		
type	7-channel DVI digi	tal video (compliant	with VESA standard)
	1-way SDI-LOOP	SDI signal loop out (optional)
	6 DVI-I sockets D∖	/I programming outp	put,
Connector	1 DVI-I socket mor	nitor output interface	
	1 BNC socket 1 SI	DI-LOOP (optional)	
Resolution after	Output A or B or M		Custom resolution: A&B&C
image resolution	1024×768@60H	2048×640@60H	Single channel: 2.65 million
conversion	z	z	pixels @60Hz
(parameters only	1024×1280@60	1024×1920@60	2304x1152@60Hz
express the	Hz	Hz	3840x640@60Hz
maximum	1280×1024@60	1920×1280@60	3 channels: 265*3=795 million
parameter value or	Hz	Hz	pixels
limit value and are	1440×900@60H	1280×720@50H	@60Hz

compatible below)	Z	Z	
	1536×1536@60	1920×1080@50	
	Hz	Hz	
	1600×1200@60	2048×1152@60	
	Hz	Hz	
	1920×1080@60	2304×1152@60	
	Hz	Hz	
	1920×1200@60	2560×960@60H	
	Hz	z	
		3840×640@60H	\sim
		Z	
weight		4kg	
Size (mm)	The size of the	chassis: (length, wid	th and height) 440 × 335 × 88

Appearance description



 Rotate button: adjust the position of the menu, the button can enter the menu, adjust the parameters; return button: can exit the menu or cancel the operation;

2LCD screen: intuitive LCD interface, direct operation button control to finely adjust image settings;

3A input: corresponding to the [A&C] input area interface of the rear panel for signal switching of output channel A;

output channels can be switched to the main input;

5C input: corresponding to the [A&C] input area interface of the rear panel for signal switching of output channel C;

6Preset: 4 groups of presets;

∂Function keys: Part: Part and full screen switching Black: Black screen PIP:

Picture in picture Fn: INPUT-A key area and INPUT-C key area synchronous switching;

&switch;;

Operation of the second sec

10Input (INPUTS):

Main input (MAIN): (CV1, CV2, VGA1, VGA2, DVI1, DVI2, HDMI1, HDMI2, SDI option) can select the switching effect of fast cut or fade between any signal source;

A&C input: (CV3, CV4, HDMI3, HDMI4) can select the switching effect of fast cut or fade between any signal source;

toutput (OUTPUTS): Output channels A, B, C, each output has 2 DVI

interfaces, connected to 6 1.3 megapixel standard transmission cards; all channels can receive the main channel signal source, A channel and C channel can receive Main channel and A&C signal source;

t2Monitor interface (CH-M/Monitor): display the user's real-time operation

image position and switch effects;

t3Control interface (RS-232): for internal control;

t4Send card installation: Support 4 sets of send card installation, compatible with universal LED full color send card.

Technical Parameters -

	Mini mu	Typical value	Maximum
Rated voltage (V)	100 VA	240VAC	240VAC
Storage temperature (°C)	-40	25	105
Working environment temperature (°C)	0	25	45
Working environment humidity (%)	0.0	10	90
Working power (W)	١	١	45
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chenthe		(echnor	
shenthe		<i>echnor</i>	

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