



# IMP-401 LED Video Processor

## Broadcast Image Quality

- The 14bit three-dimensional space color processing engine, which is unique to broadcast monitor, guarantees the LED screen shows the same true color as the TV set, thus it meets the strict requirement of video wall in TV studio.
- No matter how much the LED screen dot pitch is, there will be perfect image reproduction with the broadcast image processing engine and high quality scaling and de-interlacing technologies; The process on image de-noising and de-mosaicing provides high quality image reproduction even for low quality signal source.

## 24/7 Reliability

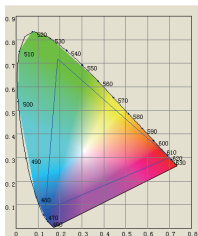
- Broadcast Standard Design, 24x7 Reliability.
- Classic appearance and first-class manufacturing process
- Creative cooling technology without fan



Osee committed itself to the design and manufacture of broadcast video processing products for more than 10 years to meet the customer's requirements on broadcast image quality and 7x24 reliability. Our customers are including but not limited to CCTV, BBC, Global TV, STAR TV. Today Osee optimize the design with their advanced technologies and rich experiences and apply it to the professional AV industry with low cost yet high quality.

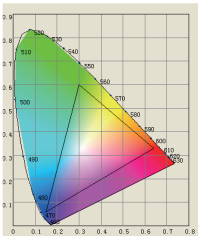
The common LED controller can only adjust white balance instead of color space, the red and green color are too bright, and then the color distortion occurs; while the IMP-401 can achieve true color reproduction because it can adjust the white balance and color space (sRGB, etc) at the same time.

## Reduce Noise and Eliminate Mosaic Effects



False Color

Note: The HD TV set is just for reference.



Accurate Color Reproduction

Note: The HD TV set is just for reference.



Before De-noising



After De-noising



Before De-mosaicing



After De-mosaicing

## Multiple Control Modes

### 1/ User Defined Scheduling

User defined scheduling of template and signal source switching and adjustment of brightness, volume, power on/off.



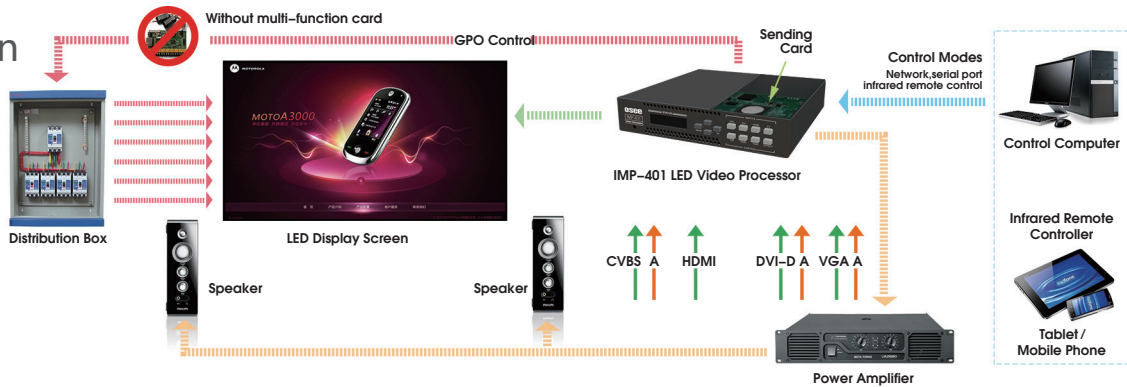
### 3/ GPO Provides Remote Control of Screen Power on / off

No need of multi-function card, thus the input cost is lowered

## High Quality Switching and Special Effects

Fast switching without black or jump; PIP display; fade-in / fade-out makes the display content more creative.

## System Connection



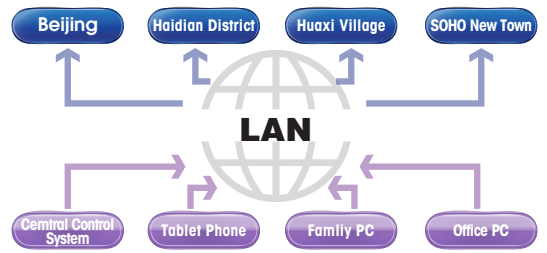
## Specifications

	Interface Type	Description
Video Input	VGA x 1: 15pin D_Sub	Maximum resolution 1920x1200@60Hz, backward compatibility
	DVI-D x 1: 24+1 DVI_I	Maximum resolution 1920x1200@60Hz, backward compatibility, Compatible with HDMI 1.3
	HDMI x 1: TypeA	Maximum resolution 1920x1200@60Hz, backward compatibility, Compatible with HDMI 1.3
	CVBS x 1: BNC	PAL/NTSC 1Vpp/75Ω
Video Output	DVI-D x 1: 24+1 DVI_I	Customized Resolution: Horizontal to 3840 ; Vertical to 1920
Analog Stereo Input	Input Impedance	≥ 40kΩ
	Input Level	Max: 2 Vp-p
Analog Stereo Output	Output Impedance	Typical: 450Ω
	Output Level	Max: 2 Vp-p
Control Interface	Panel/Ethernet/RS232/Infrared remote controller	
Input Power	100 ~ 240VAC, 50/60Hz	
Overall Power Consumption	12W	
Operating Temperature	0 ~ 40°C	
Size	240×220×44 ( mm ) / 9.4×8.7×1.7 ( inch )	
Weight	1.5Kg ( 3.3lbs )	

\*Specifications are subject to change without notice.

### 2/ Remote Web Server Control

You can control the LED screens in different places no matter you are in the office, on the road or at home.



## Applications



## Ordering Information

IMP401	Basic Version
IMP401A	Enhanced Version (with audio module)
IMP401G	Enhanced Version (with GPO module)
IMP401H	Color Gamut Correction Version (with audio module)
IMP401J	Color Gamut Correction Version (with GPO module)

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