LS16 two-in-one controller product specification

Overview

The LS16 is a control processor for the large-screen design of live performance LEDs. It adopts the industry's top design technology and meets international and industry standards. It is a 2U device that supports 4K@60Hz input in the industry.

Customized loading within 9.6 million pixels of the whole machine to meet most of the on-site needs.

Functional characteristics

- The single network port carries 650,000 pixels, the whole machine has a maximum load of 9.6 million pixels, the width can reach 16000 points, the height can reach 8000 points, and the single machine has 16 network ports.

- Access to DVIx2, HDMIx3, DPx2, and SDI channel signals

- Support 8 screen display, screen position arbitrary layout

- Pure hardware FPGA architecture: no CPU, no kernel, no poisoning and crash risk, the system runs stably. Mean time to failure MTBF>30,000 hours, supporting 365×24 hours of continuous operation

- Image freely zoomed display

- All layers support Cutout, transparency, and edge feathering for best results
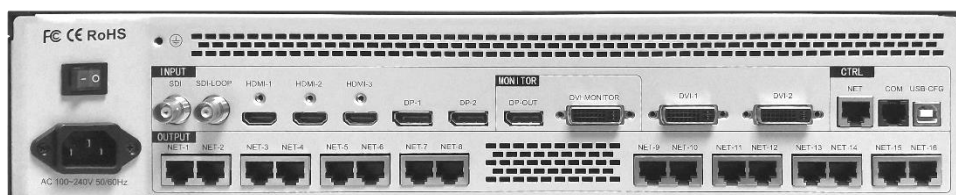
- Support signal source hot backup

- User-friendly interactive control interface with front-end switch, LCD information color screen, plastic buttons and smart knob

- EDID configuration management: support EDID (Extended Display Identification Data) read, modify, customize

- Panel identification source status

- Support one button black screen / still

- Black edge/trimming function: solves the black edge problem generated by the front-end signal, and makes arbitrary cropping for any signal source (still maintaining the full screen state)

- Support key lock to prevent misoperation

- Color Restore Settings: Color Restore Settings option in the client software

Panel description

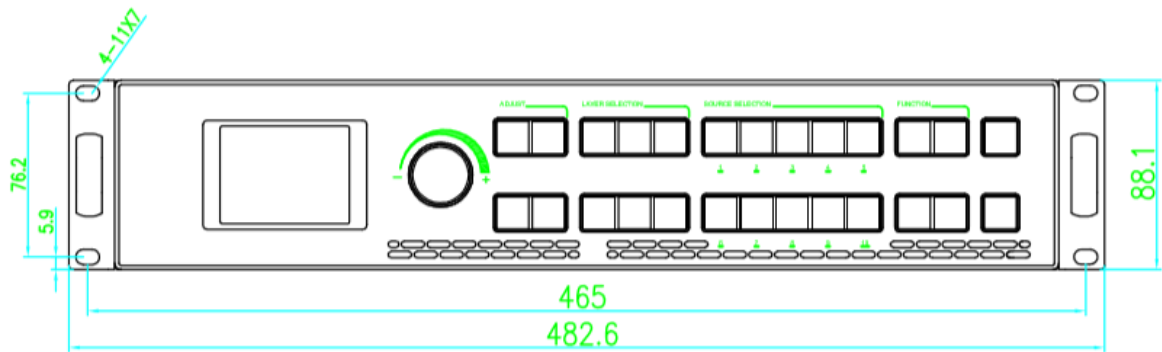| Serial number	Function Description
①	Full color LCD information screen
②	Parameter setting, debugging area
③	Layer (window) quick selection area
④	Signal source quick selection area
⑤	Display mode, sending card information area
⑥	Preset save call area

Portspecification

Input port		
Type	Number	specification
DVI	2	1.3 standard, maximum support 1920×1080@60Hz
SDI（BNC）	1+1（LOOP）	Support SD/HD/3G-SDI
HDMI	3	1.3A standard, maximum support 1920×1080@60Hz
DP	2	DP 1.2 standard, DP1 supports up to 3840×2160@60Hz

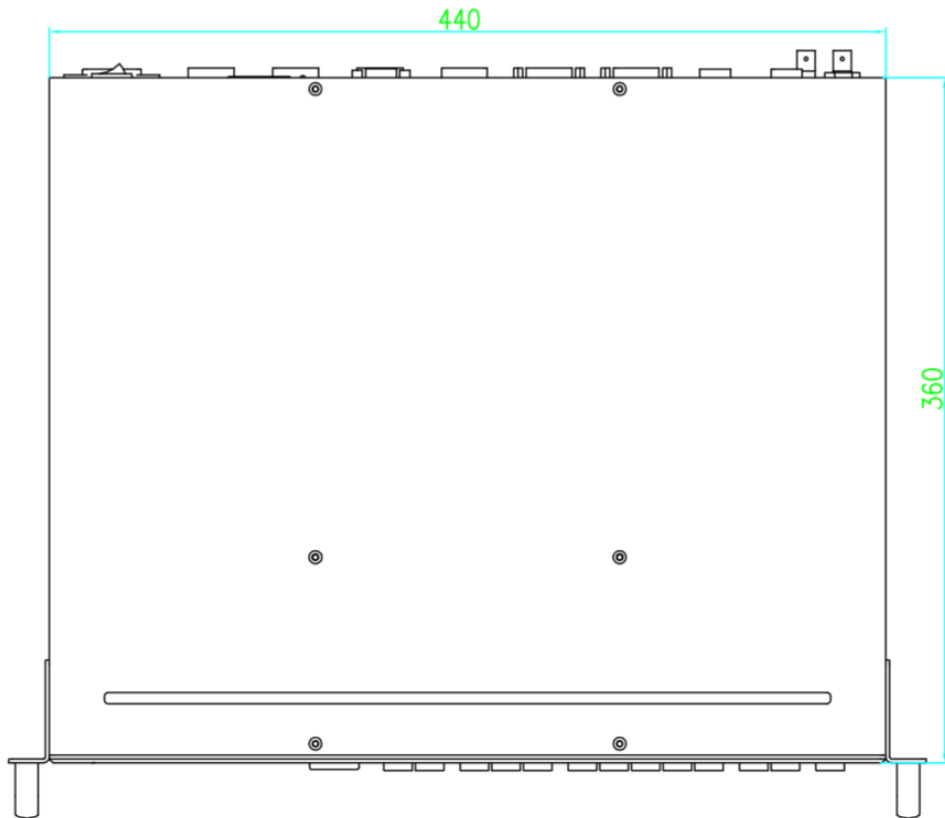| Output port		
Type	Number	specification
LAN	16	LAN port, used to transmit data to the receiving card, with a maximum
DVI-I（MONITOR）	1	Resolution：1920×1080@60Hz
DP	1	DisplayPort 1.2，Support DP1 signal source loop out

Control port		
Type	Number	specification
USB（Type-B）	1	USB-CFG interface for connecting PC host computer control
RS-232（DB-9）	1	Data transfer rate is 50、75、100、150、300、600、1200、2400、4800、9600、19200、38400 （BT）
RJ-45	1	100M

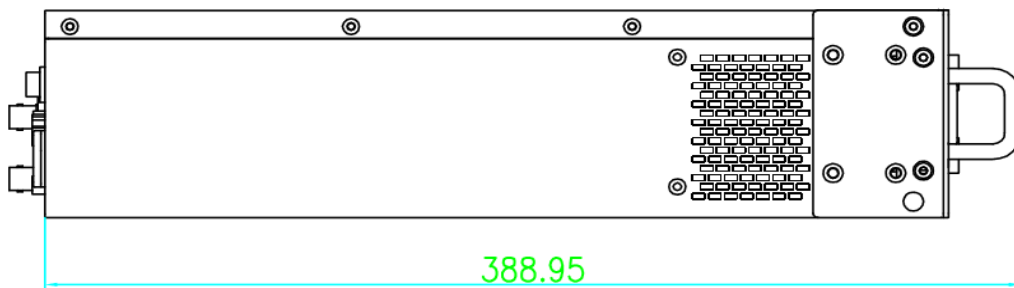| Machine specification	
Input power	100-240V AC~50/60Hz 0.6A
Operating temperature	0-45℃
Dimensions	488×360×89mm（L×W×H）
net weight	6KG
Machine power consumption	55W

Accessories: Equipment Dimensions

Front panel size chart

Overlooking the size chart

Side panel size chart