Specifications

3D Video Controller Nova3D HD

Rev1.0.3 NS160110172

General

Nova3D HD, developed by Nova, is an independent master supporting 3D video source. It can be used without computer and is equipped with screen at any time; the display brightness can be manually adjusted for convenience; 3D video can be output when 3D HD is connected to ordinary receiving card, which can generate an amazing visual effect. A single 3D HD controller supports the output of 1080P FHD 3D signal and cascade multiple 3D HD controllers can load 4K * 2K giant screen, which can bring a very stunning visual experience.

Feature

1) It adopts the output of standard 3D video;
2) It adopts an innovative architecture to implement smart configuration; the screen debugging can be completed within 30 seconds；
3) It adopts the Nova G4 engine; the screen is stable and flicker free without scanning lines; the images are exquisite and have a good sense of depth；
4) Support Single/Dual-link DVI , HDMI 1.4 specification;
5) HDMI audio input/external audio input;
6) The looping out of Dual-link DVI LOOP can realize synchronized monitoring;
7) Loading capacity: 2560x1600@60Hz, 3840x1080p@60Hz, 1080p@120Hz，4Kx2K@30Hz；
8) The switch between 3D and 2D can be realized with one button;
9) It can be used without computer and is equipped with screen at any time;
10) The display brightness can be manually adjusted for convenience;
11) It supports new point by point correction technology of Nova; therefore,

the correct ion is quick and efficient;

12) Deep color; multi-resolution; 16bit image processing; 1 billion kinds of color performance; all resolution within 4K*2K@30HZ is supported;

13) Formats all single-link DVI digital formats up to 165Mhz, Dual-link DVI formats up to 330Mhz;

14) It supports serial interface, USB and standard Ethernet communication; uniform control can be conducted for multi-computer cascade.

Dimension

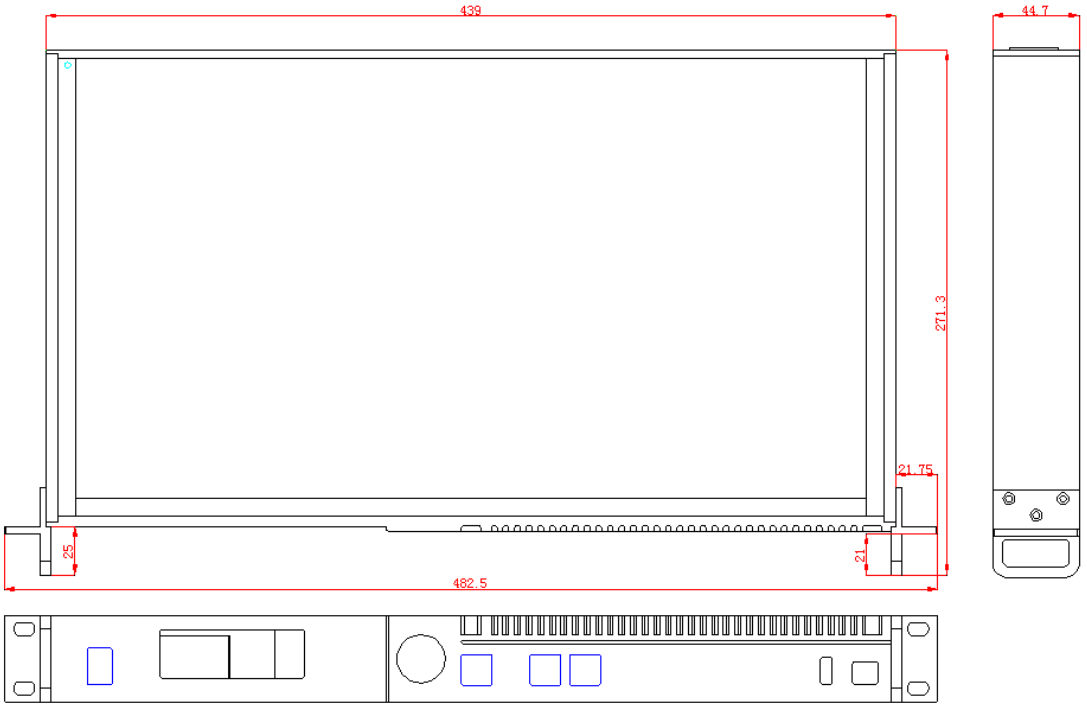
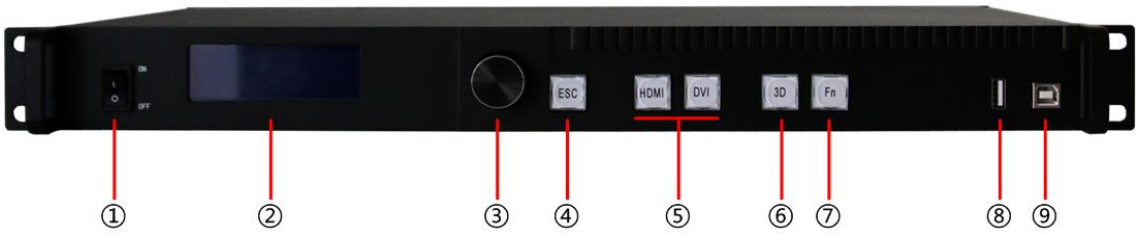


Fig. 1 3D HD 's dimension（Unit：mm）

Appearance description

Front panel



① : Power switch.
② : Operation screen;
③ : Knob: press knob for entry; rotate knob for selection or adjustment;
④ : Return key: exit current operation or option;
⑤ :Video Source switch; the key is bright after press when the video source has signal; the key flashes when the input of video source has no signal.
⑥ : 3D/2D switch: if the key is bright, it indicates that 3D model has been enabled; otherwise, 2 D model has been enabled;
⑦ : Custom shortcut key.
⑧~⑨ : USB control interface: the square mouth (B-type USB main interface) is used for cascade input; the flat mouth (A-type USB main interface) is used for cascade output.

Back Panel

Tips: In order to improve the user’ s experience, the layout of interface may be adjusted a little, The picture is only for reference.

Input Source	
AUDIO	Audio input interface
HDMI	HDMI input interface
DVI IN	DVI input interface
Output Interface	
DVI LOOP	DVI loop output
VESA OUT	External 3D emitter interface. (it is used to extend the synchronic distance of 3D glasses, and solve the problem of 3D effect failure when the 3D glasses distance controller is far).
LED OUT1~8	8-channel LED outputs
Controlling Interface	
RS232 IN、OUT	Serial Control (Cascade IN, OUT)
Ethernet	Network Control (Communication with PC, or Access Network)
USB IN、OUT	USB Control (Cascade IN, OUT)
Power	
AC 100-240V ~ 50/60HZ	AC Power Interface

Specification Parameters

Input Index		
Interface	Number	Resolution specification
DVI	1	VESA standard (support 1080i input); support HDCP 1920x1080@60Hz, 2560x1600@60Hz, 3840x1080@60Hz, 1920x1080@120Hz
HDMI	1	EIA/CEA-861 standard; meet HDMI-1.3 standard; support HDCP 1920x1080@60Hz, 1920x1200@60Hz, 2560x1600@60Hz, 3840x1080@60Hz, 3840x2160@30Hz

Output Index		
Interface	Number	Resolution specification
DVI input loop (DVILOOP)	1	Correspond with DVI input

Specification of complete machine	
Input Power	AC 100-240V, 50/60Hz
Overall Power Consumption	16W
Max. of Transmit Power	5.15dBm
RF Operating Frequency Band	2405MHz-2480MHz
Operating Temperature	-20~60℃
Size	482.5×271.3×44.7 (mm)
Weight	2.55 Kg

3D Emitter	
Antenna Gain	0.5dBi typ.(XZ-V)
Modulation Mode	OQPSK