CLEVERTOUCH®
by Boxlight®

clevertouch.com



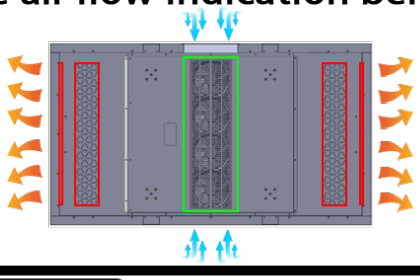
CM High-Bright

User Manual

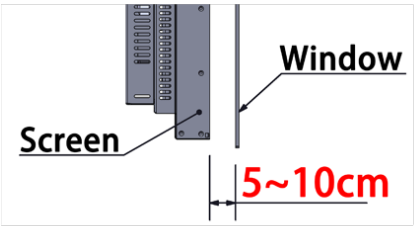
1.WARNING!!!

CAUTION

1. Do not block the air flow, pls refer to the air flow indication below



2. 5~10cm distance between screen surface to window



3. Check the temperature after installation by day and year maximum temperature

Lower than 50℃ is healthy;

50~60℃ is unhealthy;

upper than 60℃ is dangerous

4. Keep enough space in screen location or install extra cooling system when space temperature is too high

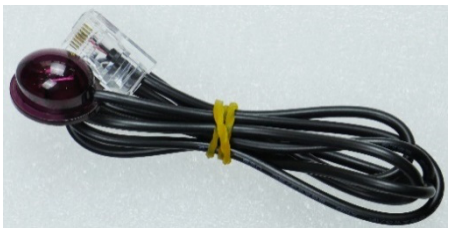
2. Accessories:



AC Cable *1



Light sensor*1



IR sensor *1



Remote control *1



WiFi*1

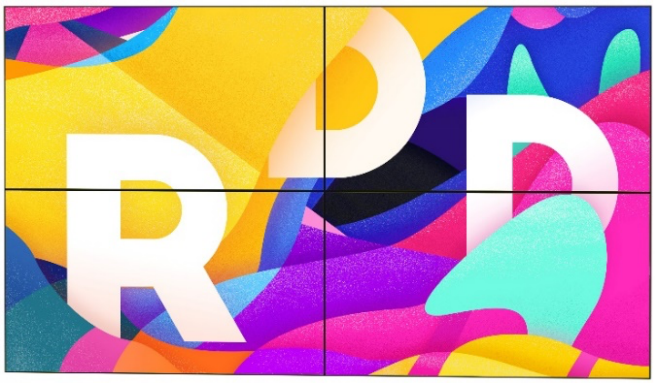


HDMI Cable*1(for Android)

Single screen



Video wall（Android）



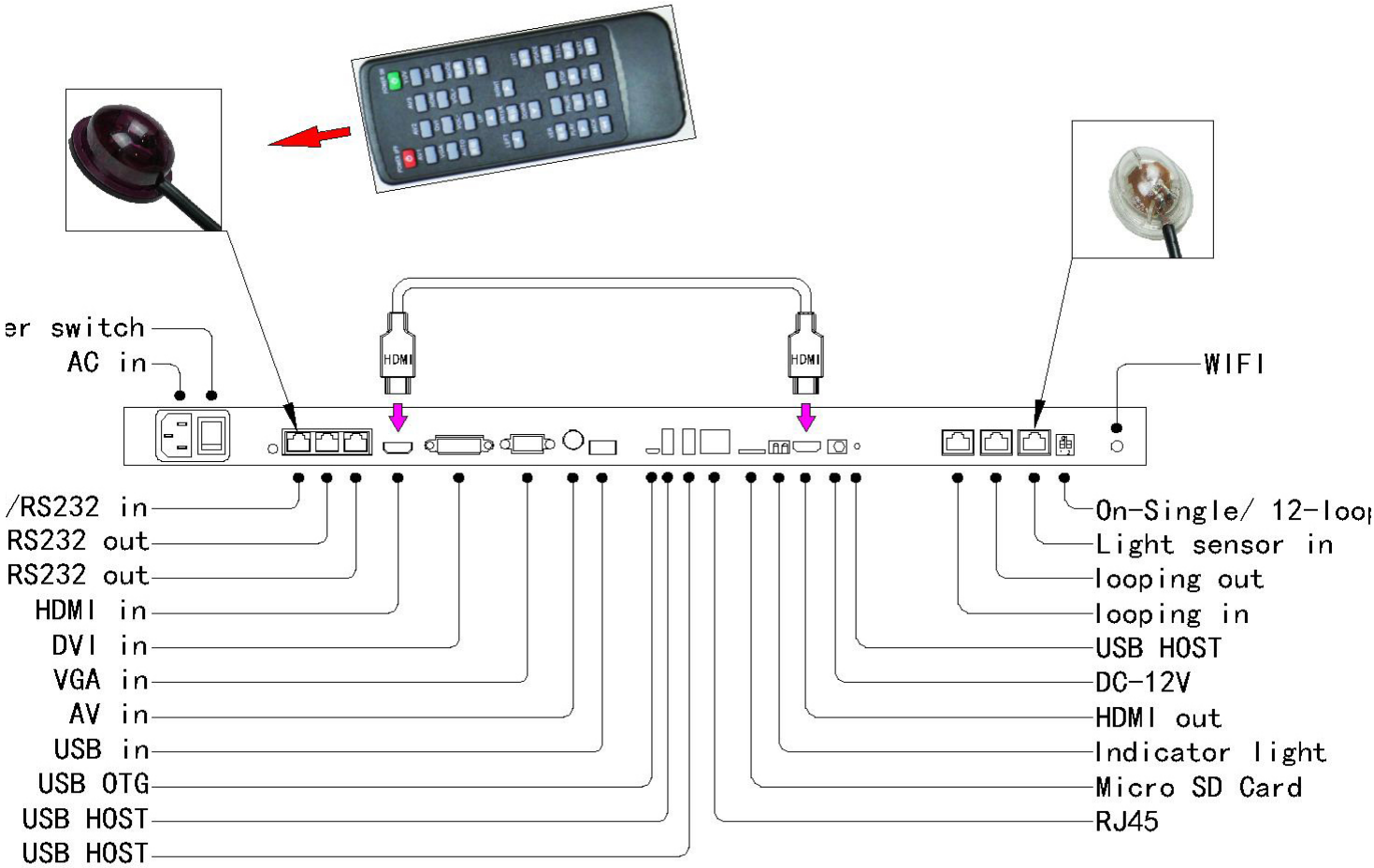
Video wall（HDMI in）



Outdoor open frame

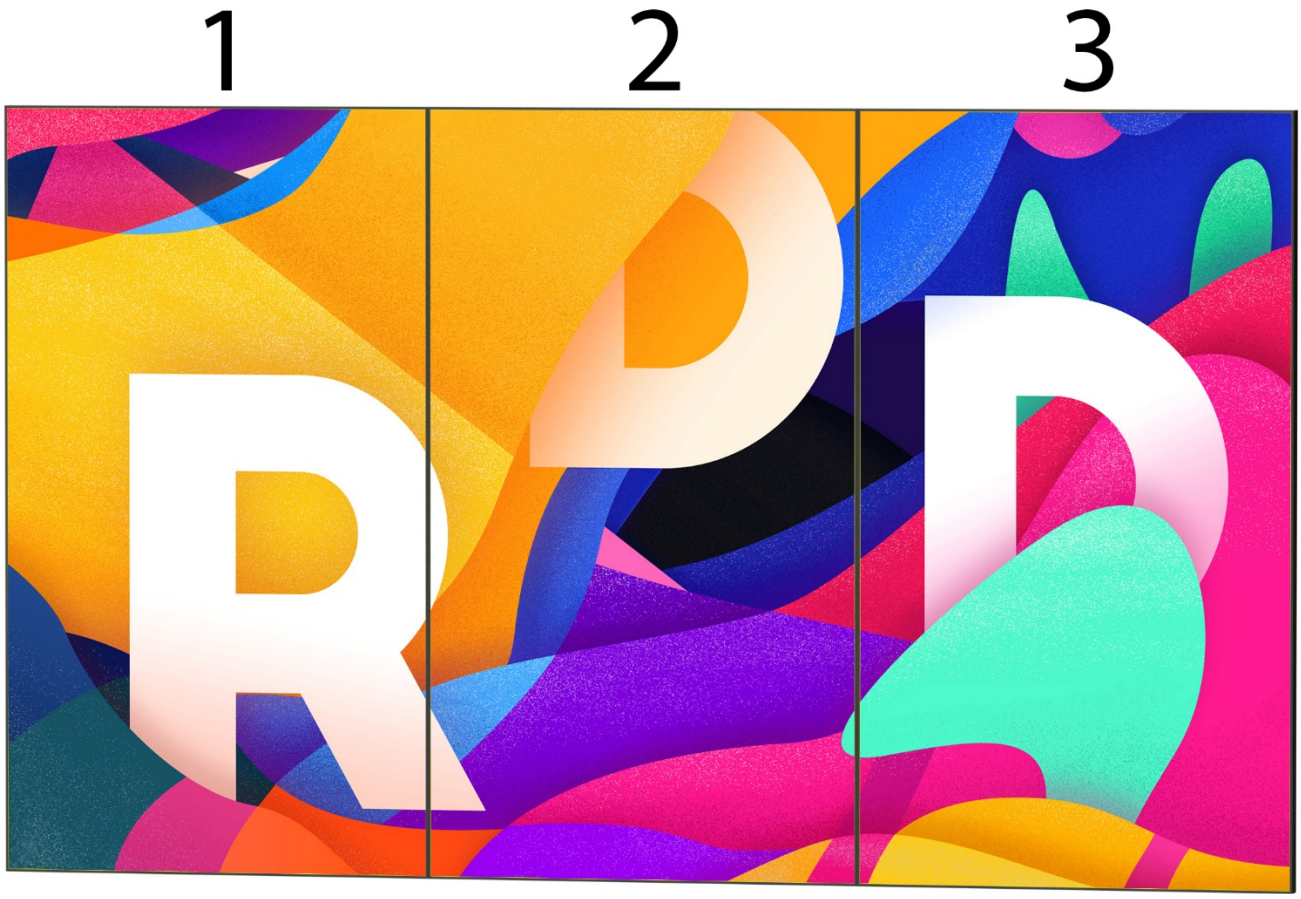


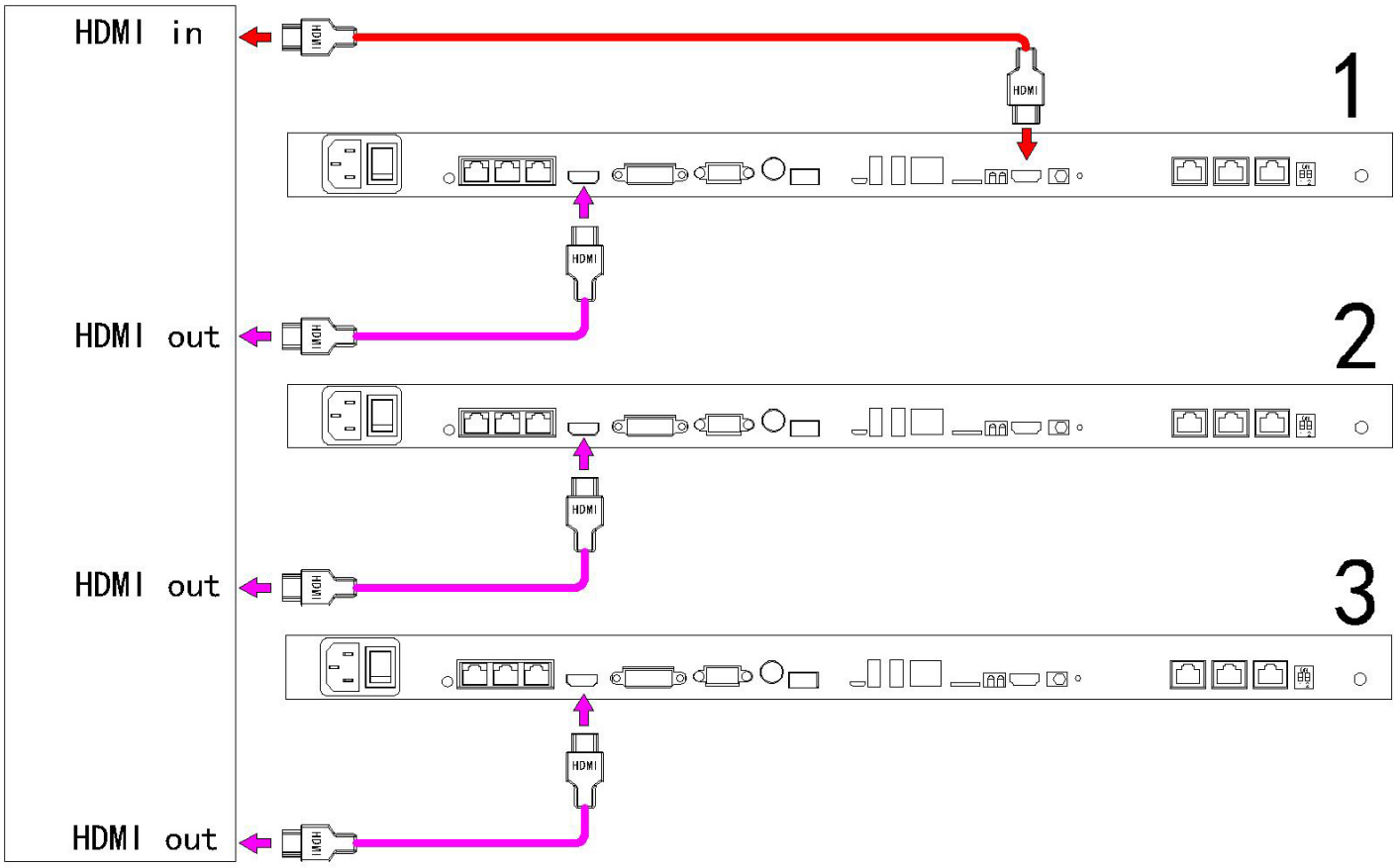
1.Single screen



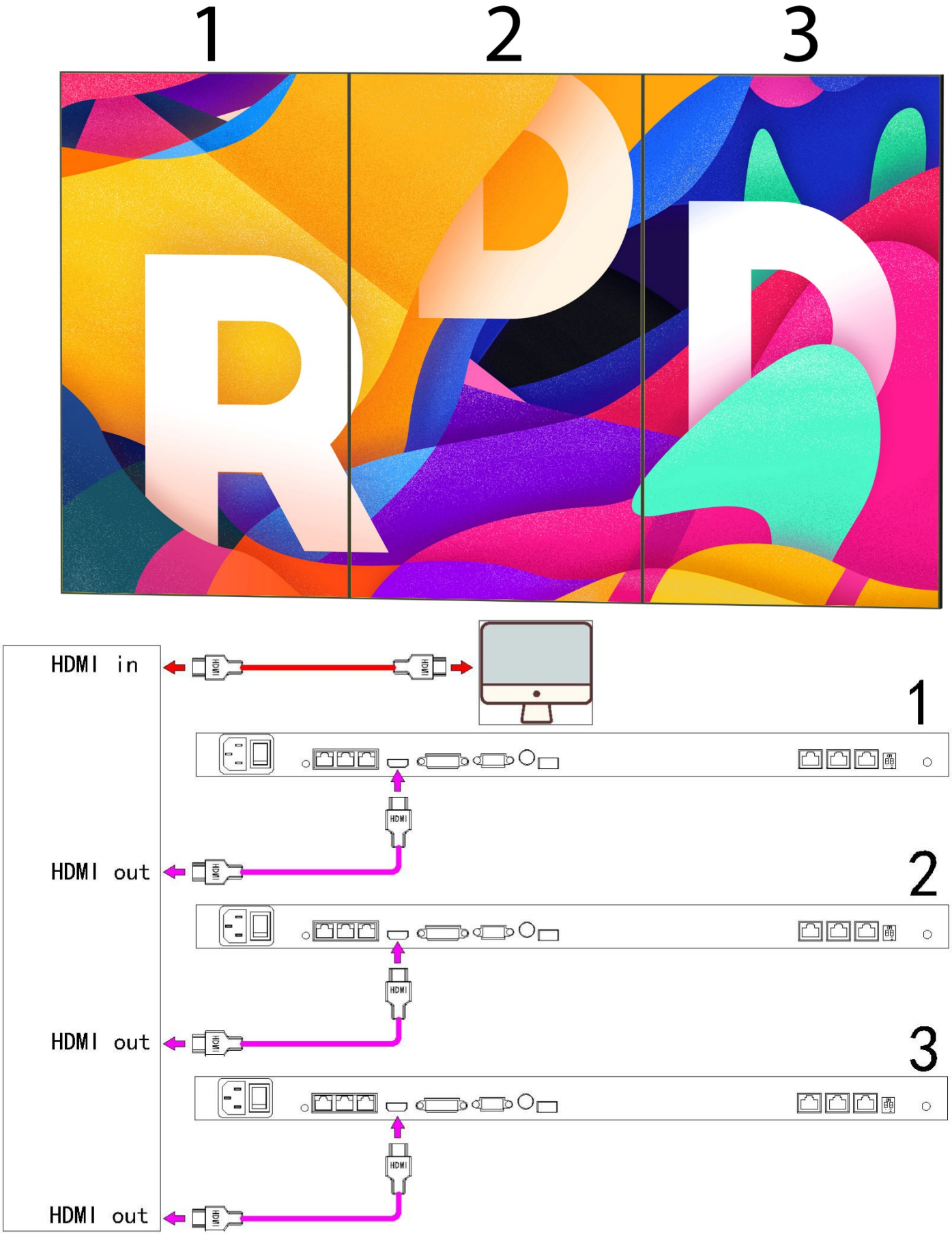


2.Video wall (Android)



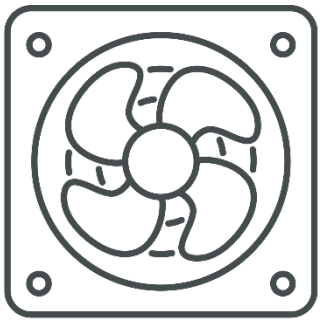


3.Video wall (HDMI in)



4.Outdoor open frame





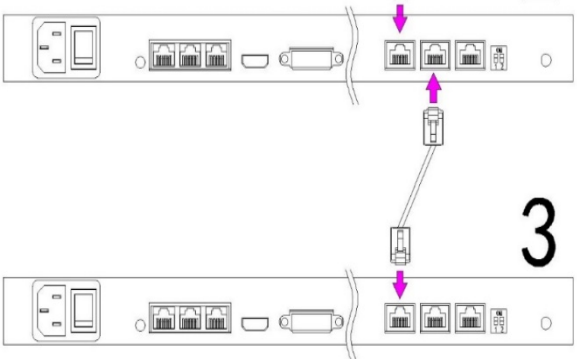
1.panel front cooling & panel back cooling

2.waterproof

For the installation of outdoor machines, the shell and heat dissipation design need to be reviewed and approved by our company, then they can be within the scope of warranty; Unapproved application scenarios can not enjoy warranty

5.Light sensor connection





Single screen

1.Dial the two dials to on

a.With access to the light sensor head, the screen can automatically adjust the screen brightness status with the change of surroundings.

b.When the light sensor is not connected, the screen will be forced to the darkest brightness.

2.Dial the code to the 1.2 position at the same time, the screen will be forced to the highest brightness.

Video wall

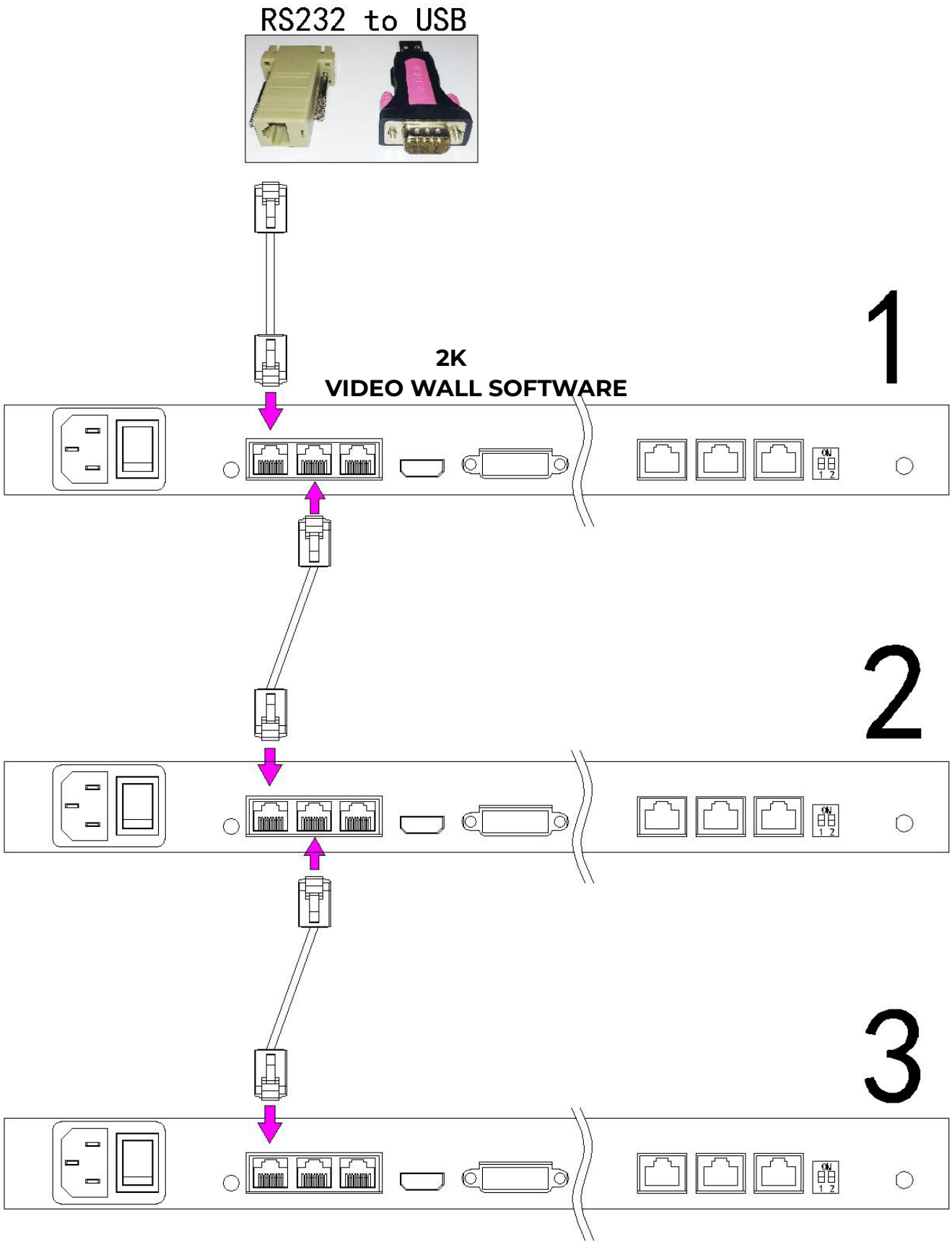
As shown in the picture, use rj45 cable to connect all the screens in series, select a main screen in the whole video wall to connect the light sensor, turn the switch to on, and turn the other screens to 1.2. The brightness of the entire video wall can be adjusted synchronously under the control of a light sensor head.

Light sensor suggested paste location



According to the actual situation of the site, it can be pasted anywhere where the intensity of external light can be perceived

6.Serial Port Connection



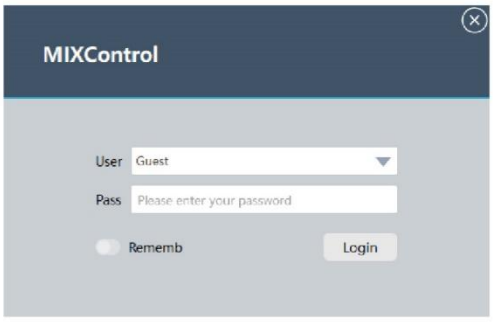
Equipment Inspection：

1， To using this software, First must make sure the equipment connect well from PC to Main Board, while you can get the COM port from PC；

2， Second make sure Screen show video OK, and main board work correctly;

Software operation

1，Login Setting:



After “MixControl” is installed ok，double Click the “MixControl” to open this software;

Login window shows as below:

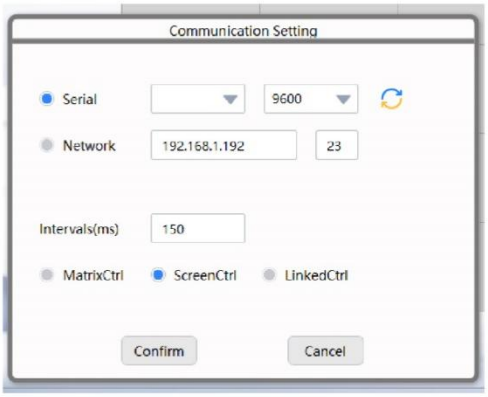
User： Guest

Pass： 123321

Click “Login” to get into software;

Note: you can Check ”Rememb”, to avoid to input password again when log in next time;

2， Communication Setting



Click “Comm Setting” on Toolbar to get in setting menu;

“Serial”: Control Splicing equipment by Com port；

“Network”: Control Splicing equipment by network；

“Intervals(ms)”: waiting time after each command, default is 150ms;

“MatrixCtrl”: Only Control Matrix;

“ScreenCtrl”: Only Control Splicing Screen System;

“LinkedCtrl”: Control both Matrix and Splicing Screen System;

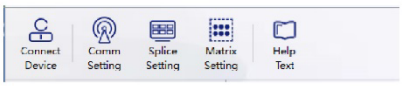
“Confirm”: Save settings;

“Cancel”: Close this setting menu;

Note：you can refresh the Com port by refresh button when there is no available port, while Serial is selected as default;

3, Connect Device

Click “Connect Device”, and you can control Splicing equipment or Matrix;

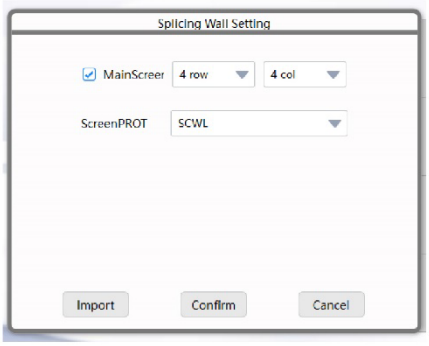


4, Splicing Wall Setting

Click the button of “Splice Setting”, to open this setting menu;

“MainScreen”: Setting Splicing screen arrangement;
“ScreenPROT”: Select screen protocol，default is “SCWL”;

“Import”: Import the new protocol into software;
“Confirm”: Save settings;
“Cancel”: Close this setting menu;

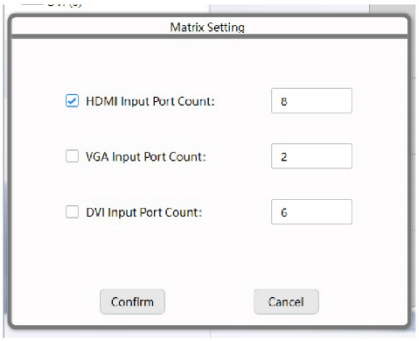


5, Matrix Setting

In this menu, you should check the Matrix Type, and fill in number of output port;

“Confirm”: Save settings;
“Cancel”: Close this setting menu;

Note: if using a HDMI Splitter , please check HDMI Port, Count is 1;



6, Open or Close Screen

“Open Screen”: Setup all splicing screen;
“Close Screen”: Close all splicing screen;

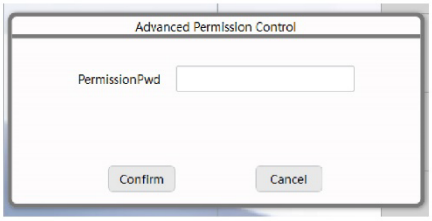


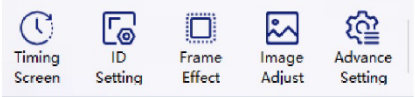
7, Advanced Permission Control

Click “Advance Setting”, and input “123321”to pass through.

“Confirm”: Save settings;
“Cancel”: Close this setting menu;

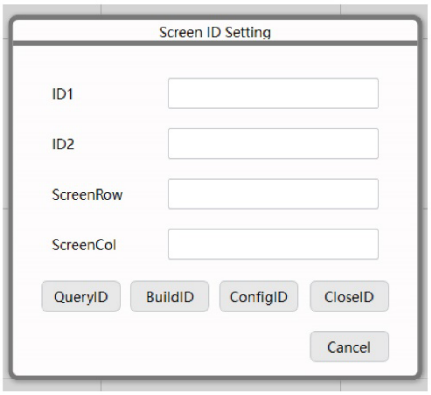
The toolbar will show “Timing Screen” “ID Setting” “Frame Effect” “Image Adjust”, when “PermissionPwd” is correctly;





7-1 ID Setting

Click the “ID Setting” button to get in setting menu;



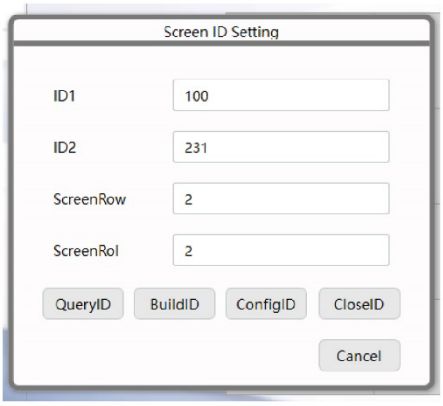
Example：

1, Click “BuildID”, and Screen will show ID setting menu；

2, Fill the number of “ID1” and ”ID2” into Software what shows on Screen;



3, Then Click the button of “ConfigID”, and you can see the Row and Column changed on screen；



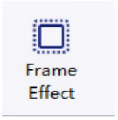
4, Click “CloseID” button to close ID setting menu on Screen.

5, Click “Cancel” button to close this setting menu;



7-2 Frame Effect Setting

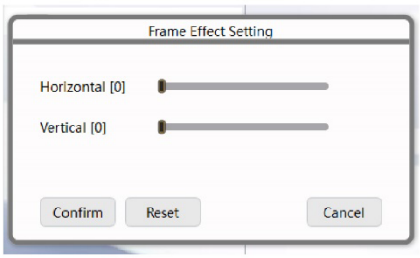
Click the button of “Frame Effect” to get in this menu;



“Confirm”: Save settings;

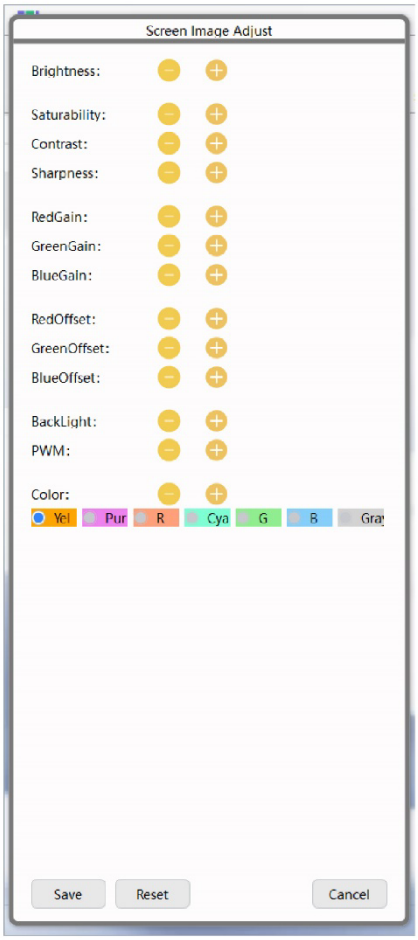
“Reset”: Set the Value of H/V to 0;

“Cancel”: Close this setting menu;



Note: Set same value on same Row , and same value in same column;

7-3 Screen Image Adjust



Click the button of “Image Adjust” to get in this menu;

“Brightness”: Adjust the value of Brightness;

“Saturability”: Adjust the value of Saturability;
“Contrast”: Adjust the value of Contrast;
“Sharpness”: Adjust the value of Sharpness;

“RedGain”: Adjust the value of RedGain;
“RreenGain”: Adjust the value of RreenGain;
“BlueGain”: Adjust the value of BlueGain;

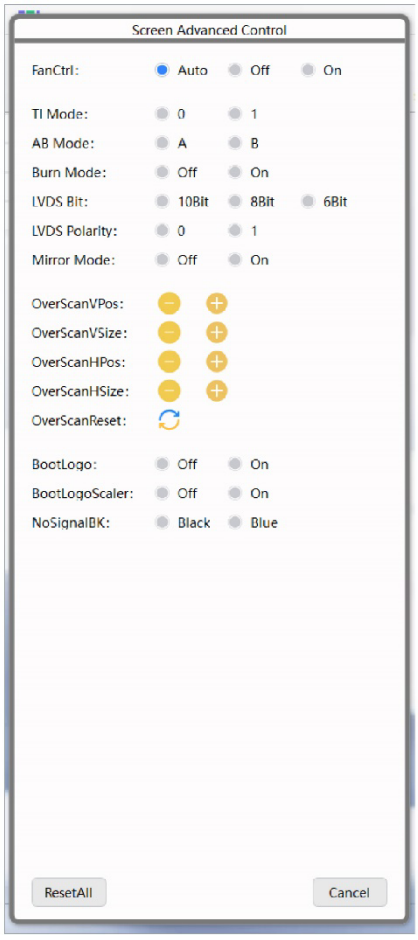
“RedOffset”: Adjust the value of RedOffset;
“GreenOffset”: Adjust the value of GreenOffset;
“BlueOffset”: Adjust the value of BlueOffset;

“Backlight”: Adjust the value of Backlight;
“PWM”: Adjust the value frequency of Backlight;

“Color”: Adjust the value of R\G\B Gain by check Yel\ Pur\R\Cya\G\B\Gray;

“Save”: Save image setting of Screen;
“Reset”: Reset all Screen setting to default value;
“Cancel”: Close this setting menu;

7-4 Screen Advanced Control



Click the button of “Advance Setting” to get in this menu;

“FanCtrl”: Adjust Fan working status;

“Ti Mode”: Adjust the config of LVDS outputting which is divided into JIEDIA(0) and VESA(1);
“AB Mode”: Adjust the dual LVDS output sequence;
“Burn Mode”: Adjust Aging mode which working for testing panel picture;
“LVDS Bit”: Adjust the value of LVDS output data;
“LVDS Polarity”: Adjust positive and negative order of LVDS;
“Mirror Mode”: Adjust picture whether mirror or not;

“OverScanVPos”: Adjust value of picture vertical start position;
“OverScanVSize”: Adjust value of picture vertical size;
“OverScanHPos”: Adjust value of picture horizontal start position;
“OverScanHSize”: Adjust value of picture horizontal size;
“OverScanReset”: Reset value of over scan;

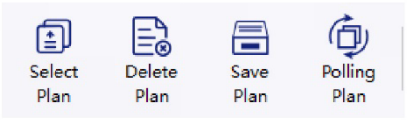
“BootLogo”: Set boot logo show or not when power on;
“BootLogo scaler”: Set boot logo whether is scaler or not;

"NoSignaleBK": Background is blue or black when no signal menu show;

"ResetAll": Reset all setting of Board to factory defaults;
"Cancel": Close this setting menu;

7-5 Plan Setting

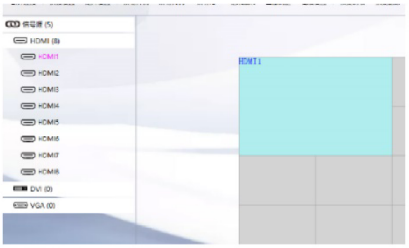
Operations for different splicing states;



"SelectPlan": Select the saved plan;
"DeletePlan": Delete the saved plan;
"SavePlan": Save the plan;
"PollingPlan": Select some plans and showing in polling;

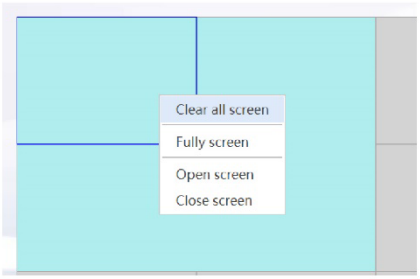
Note: first save the plan, then you can select or delete unused plan;

8, Splicing Setting



Drag the signal on the left to the operation area on the right to achieve channel switching or different splicing states;

When right click on operation area:



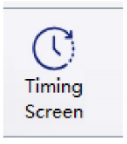
"Clear all screen": Every screen exit splicing state;

"Fully screen": All screens show a whole splicing picture;

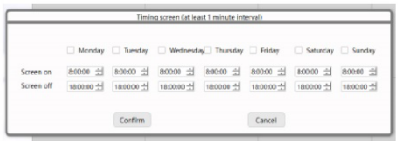
"Open screen": Power on single screen which is selected;
"Close screen": Power off single screen which is selected;

Note: every form is connecting one screen actually, which is in operation area on the right of software.

9, Screen Timing



When input "66666" in Permission Pwd of "Advance Setting", the toolbar only add a button of "Screen Timing";



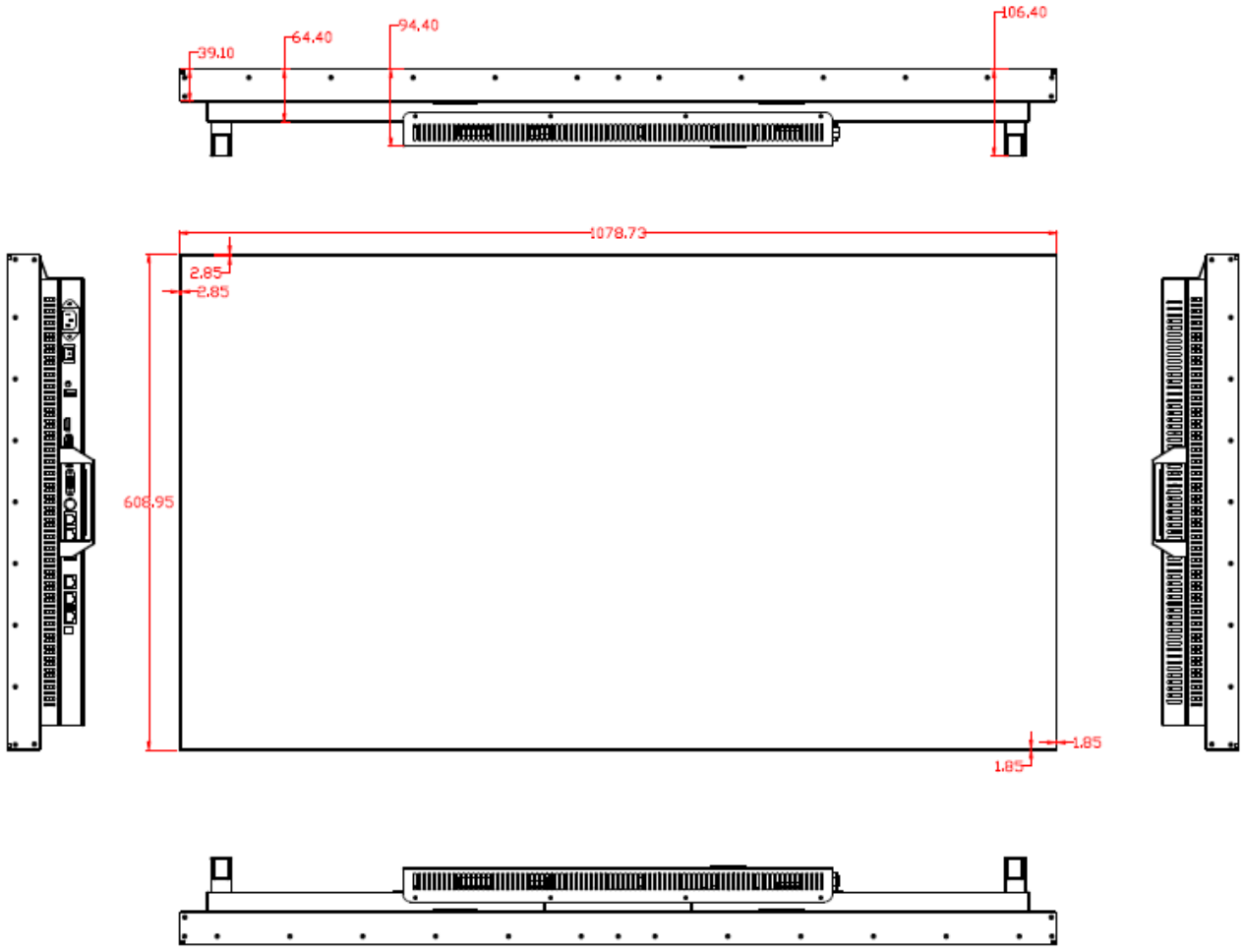
In "Screen Timing", you can check the day when you want screen on or off auto, and also can set the on/off time every day;

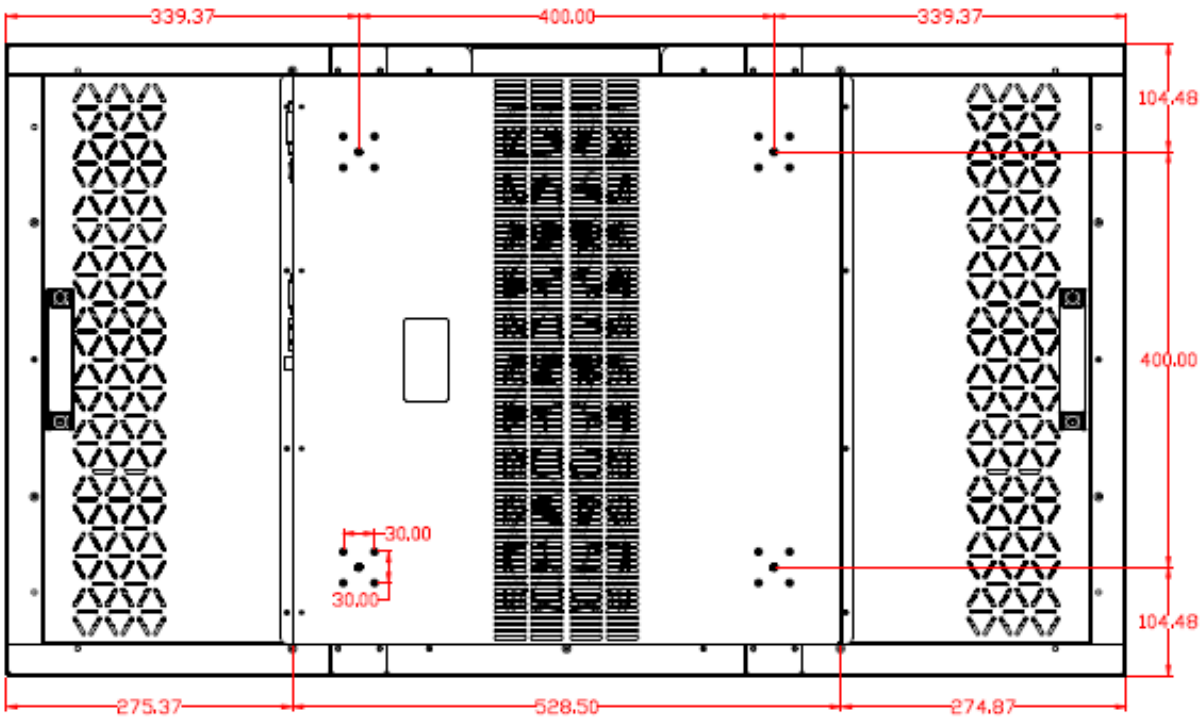
10. Spec Sheets

SPECIFICATION		49"	55"
PANEL	Screen Size	49	55
	Active area	1073.78×604.00	1209.6×680.4
	Aspect Ratio	16:09	16:09
	Native Resolution	1,920 x 1,080 (FHD, RGB)	1,920 x 1,080 (FHD, RGB)
	Brightness	3000 cd/m2 (Typ.)	3000 cd/m2 (Typ.)
	Contrast Ratio	4000:1	4000:1
	Viewing Angle (H x V)	178 x 178	178 x 178
	Response Time	Typ. 8ms (G to G BW)	Typ. 9.5ms (G to G BW)
	Surface Treatment (Haze, Quarter Wave Plate) Local dimming	Haze 3%/Hardness 2H	Haze 44%/Hardness 3H
	Life Time (Typ.)	50,000 Hrs	50,000 Hrs
	Orientation	Portrait & Landscape	Portrait & Landscape
OPERATING SYSTEM	Android System 11; CPU :RK3568; RAM:2G;ROM:16G;WIFI/RJ45		
CONNECTIVITY	AD BOARD	HDMI IN X1; DVI IN X1； RS232IN X 1 RS232 OUT X 2； USB IN X1	
	Android Board	USB 2.0 *2, RJ45 *1, HDMI in*1, power port *1, wifi antenna*2 Standard MicroSD Card Slot *1 (Support Max 128G)	
PHYSICAL SPECIFICATION	Bezel Color	Black	Black
	Bezel Width(Active to Active)	2.85mm(T/L), 1.85mm(B/R)	2.85mm(T/L), 1.85mm(B/R)
	Monitor Dimension (W x H x D)	1078.7 x 609.0x 94.9mm	1214.7x 685.5 x 94.9mm
	Weight (Net.)	26kg	33kg
	Packing Dimensions (W x H x D)	1170 x 340x 700mm	1310 x 340 x 780 mm
	Packed Weight	29kg (1pcs)	36kg (1pcs)
ENVIRONMENT CONDITIONS	Operation Temperature	0°C to 50 °C	0°C to 50 °C
	Storage System	-20°C to 60 °C	-20°C to 60 °C
POWER	Power Supply	100-240V~, 50/60Hz	100-240V~, 50/60Hz
	Power Type	Built-In Power	Built-In Power
POWER CONSUMPTION	Max.	290W	390W
	Photosensitive mode/Min.	60W	170W

11. Technical Drawings

49inch HB display drawing





55inch HB display drawing

