

Lynx 360 (double) LED Video Display QSG Electrical Setup

Verify that your Lynx 360 system contains the components pictured below. If not, or if you need additional help, please call: USA 978-556-9780 or email <u>support@finishlynx.com</u>.

Items Needed

LED Sending Box (1)	Power Jumper Cables (7) (Blue and White)	\bigcirc
LED Sending Box Power Cable (1)	Power Input Cable (1)	
USB Cable (1) (For programming use only)	Long Signal Input (1) (100' (33 meter) Ethernet Cable with Weatherproof XLR-RJ45 connector)	
Short Signal Jumper Cables (7) (Black Ethernet RJ45)	50ft Long HDMI Cable	
DVI-to-HDMI Adaptor	Weatherproof box	

Step 1: Connect Display Electronics

Once the Display is assembled (see Lynx <u>360</u> Assembly Video on YouTube), the next step is to connect the electronics of the display.

BOTTOM TIER

- a. Plug in the **Power Jumper Cables & Short Signal Jumper Cables** between panels 1 2, 2 3, 3 4. Do not use the ports with a blue sticker.
- b. Plug the **Power Input Cable** into the power source and into blue connector on Panel 1 (blue sticker).

Note: When viewing the display from the back side, the panels should be set up in ascending order from 1-4 (see image below). The connection to the **LED Sending Box** and power is from **Panel 1**.

- c. Insert the **Power Cable** into the **LED Sending Box**.
- d. Connect the Long Signal Input Cable into Panel 1 bottom Signal Input Connector (blue sticker).
- e. Connect the Long Signal Input Cable into the LED Sending Box display OUT1.
- f. Insert the **HDMI Cable** into the computer's HDMI port and insert the opposite end into the LED Sending Box with the DVI-to-HDMI connector.

All power cables require that you insert, twist and click the connector to secure it.

The image below shows the back of the display with the panels wired correctly. Panel 1 has the Power Input and Signal Input (blue stickers).

NOTE – The yellow and red stickers indicate the open signal and power ports, respectively.



TOP TIER

- g. Plug in the **Power Jumper Cable** between panels 4 5 (red sticker).
- h. Plug in the Short Signal Jumper Cable between panels 4 5 (yellow sticker).
- i. Continue plugging **Power Jumper Cables** and **Short Signal Jumper Cables** between panels 5-6, 6-7, 7-8.

Note: When viewing the display from the back side (inside), the panels should be set up in ascending order from 5-8 (see image below) starting with panel 5 over panel 4.

The image below shows the back of the top tier with the panels wired correctly.

NOTE – The green stickers indicate the open signal and power ports on panel 8.



Optional: Adjusting the Brightness of the LED Panels

- a. Once you have connected the LED panels using the steps above and powered them on, you can proceed with adjusting the brightness of the panels if needed. This may be the case when using them under extreme dark (at night) or bright conditions (direct sunlight). You will need to use the USB Out port on the LED Sending Box to adjust the brightness. Insert the square end into the LED Sending Box and place the USB end into your computer. This cable is only needed when you are actively changing the brightness. It is not needed when operating the display.
 - a. **NOTE** Max power draw for the 360-Double display is about 30 amps.
- b. Install the NovaLCT program from the Lynx USB Drive.
- c. Run NovaLCT and click on the Brightness icon.

10 NovaLCT V5.4.4.6	_	×
System(S) Settings (C) Tools(T) Plug-in (P) User(U) Language(L) Help(H)		
Cloud Monitoring Brightness Screen Control Monitoring Multi-function Card Test Tool		
Control System 1 Other Device 0 <u>View Details of Device</u>		
Service Status: Service version:3.1.1		

d. Using the **slider** or **text box** (max value: 255), adjust the brightness level as desired. The display will change brightness when you release the slider or enter a new value. Click "**Save to HW**" to save the new brightness value to the panels. You can now close the NovaLCT program and remove the USB cable.

Brightness Adjustmen	t		>
COM5-Screen1			
	 Manual Adjustment 	 Auto Adjustment 	
Brightness			
Brightness		193	(75.7%)
	Grayscale	Contrast	
	~		
	Advar	ced Settings	
		Refresh	ive to HW
			×

Optional: Re-programing the LED Panels

***You will only need to re-program your LED display if it <u>WASN'T</u> pre-programmed at Lynx System Developers or if the panels are set up in a different order.

- e. Once you have connected the LED panels using the steps above, you can proceed with the re-programing process if the panels are not pre-configured. You will need to use the USB Out port on the LED Sending Box to program the panels. Insert the square end into the LED Sending Box and place the USB end into your computer. This cable is only needed when you are programming the display. It is not needed when operating the display.
- f. Install the NovaLCT program from the Lynx USB Drive.
- g. Run NovaLCT and navigate to User | Advanced Synchronous System User Login. Login by inputting the password admin.



h. Select the Screen Configuration icon. Confirm the Serial Communication Port and click Next.

S NovaLCT V5.4.4.6				
System(S) Settin	Screen Configuration			×
	- Select Communication	Port		
Cloud Monitoring	Current Operatio	COM5	~	
-Local System Inform				
Control System	 Configure Screen 			
- Monitor Information -	Cloud Restore	Europe	~	
-	 Local Restore 			Browse
			Next	Close

i. Under the **Sending Card** tab, confirm the proper **Resolution** is selected under **Source Configuration**. If you change this setting, click **Save**. This setting refers to the resolution that your laptop is set to.

Screen Confi	guration-COM5			_	
Sending Card	Receiving Card Scree	en Connection			
-Display Mo	de splay Mode			Refre	esh
Sending	Card 1920 x 1080	(1080P) Graphics Outpu	ut R 1920 x 1080		
– Source Co Resolutio Refresh F	nfiguration on: 1920 x 1080 Rate T 60	px v Custom V Hz	<u>1920</u>)	(1080 🗘	.t
Hot Backur Redundand Set the Ci	p Verification Verify cy urrent Devi O Set	as Primary) Set as Backup	Se	t
	Primary	/	Backup)	
S P	erial Number of rimary Sending Card	Serial Number of Primary Port	Serial Number of Backup Sending Card	Serial Number o Backup Port	of
L					
Refres	sh Send		Add	Edit	ete
Restore Fac	tor	Export S	creen M Save System C	Save	Close

j. At the top of the window, select the **Receiving Card** tab. Click the **Load from File** button (1) and select the "**360 receiving card.rcfgx**" file from the Lynx USB Drive. Click the **Send to Receiving Card** button (2). Click the **Save** button (3).

Screen Configuration-COM5							_		×
Sending Card Receiving Card Scre	en Connection								
Module Information									
Chip: ICN2053	Size:	16W×8	H	Sca	anning Type	1/8 scan			
Direction: Horizontal	Data Groups	1		<u>Adj</u>	ust RG				
Cabinet Information									
							<u>S</u>	et Rotati	on
Regular			O Irregular						
Width (Pixel) 1	=256		Width:	160	Height:	80			
Height (P Open								×	
Module C	A Dec y	360 c		C	Search 360	configs LED			
Defenses	/ Des /	/ 300 C	~	0	Search Source	conings LED			
Data Grou Organize V	New folder					□ -		8	
A Home		_							
Refresh Ra		4							
DCLK Frec > CheDriv	e								
Data Phas	_								
GCLK FIE		eceiving							
GCLK Phas	care	d.rcfgx							
Line Cha 👱 Downio.	aus 🗶								
	File name: 360 r	eceiving c	ard refex		Receiving (Card Configu	ration F		
Brightness		ceening e	aranergx						
					Open		ancel		
	1					2			
Smart Settings	Load from	n File	eceiving Car	Save	e to File Re	ad from Re.	Sen	d to Rec	ei
Current Receiving A5SPlu	s_V4.8.1.0 Firmwa	are versio	A5SPlus				Rest	ore Fact	o
			xport Screen M	M Sav	e System Co	Save		Close	

k. At the top of the window, select the Screen Connection tab. Click the Load from File button (1) and doubleclick on the "360-double map.scr" file from the Lynx USB Drive. Click the Send to HW button (2). Click the Save button (3).

reat1	
Screen Type: O Standar Sending Card Number	d Screen Complex Screen Basic Information Coordinate X 0 Y 0 Virtual No 0 E. Coordinate X 0 Y 0 Virtual No 0 E.
Ethernet Port No.	Open × 5
	← → → ↑ 🎦 • Des • 360 c → C Search 360 configs LED 🔎
Width: 140 S Apply to Height: 55 S Apply to Set Blank Apply to thus Quick Connection	Home DreBnve Desktop Downloads
502	File name: 360-double map v Screen file(* scr) v Open Cancel

The panels are now configured correctly. If you have not already, connect the HDMI cable from your computer to the sending unit. You should see the top-left corner of your computer screen on the display. You are ready to use the display with ResulTV.

If your display is not displaying in the correct order, double check that your connection sequence follows the order and direction shown in the image on page 2. If you need to make a change to the connections, repeat step g.

This concludes the Lynx 360 Display (double) – Electrical Connections QSG. Please contact technical support with any questions: support@finishlynx.com