

Information Sheet

LED Screen Dimension

	Screen Size	Pixel Pitch	Resolution
Width	5.76m	2mm	2880 pixels
Height	3.2m	2mm	1600 pixels

Note:

LED Display Resolution = Screen Width (mm) / Pixel Pitch x Screen Height (mm) / Pixel Pitch

LED Screen Specifications

Screen Size (W x H):	5.76 m x 3.2 m
Pixel Pitch:	2 mm
Screen Resolution:	2880 pixels x 1600 pixels
Cabinet Size:	640 mm x 480 mm
Cabinet Material:	Die-casting Aluminum
Brightness:	800 nits
Refresh Rate:	3840 Hz
SMD Encapsulation:	Kinglight SMD 1415
Input Voltage:	AC 220V - 240V
Input Power Frequency:	50 - 60Hz
Wall-mounted Structure:	Included
Lifespan:	100,000 Hours
Average Power/sqm (watts):	200 W
Max Power/sqm (watts):	650 W
Working Temperature:	-20°C ~ +60°C
Operating humidity:	10% ~ 90%
Certification:	CE RoHS FCC CCC ISO9000
Warranty*:	5 Years

LED Controller System

Front Panel

Front panel must have the following or equivalent functionalities.

Area	Function
LCD screen	Display the device status, menus, submenus and messages.

Knob	• Rotate the knob to select a menu item or adjust the parameter value. • Press the knob to confirm the setting or operation.
ESC button	Exit the current menu or cancel an operation.
Control area	• Open or close a layer (main layer and PIP layers) and show the layer status. Status LEDs: – On (blue): The layer is opened. – Flashing (blue): The layer is being edited. – On (white): The layer is closed. • SCALE: A shortcut button for the full screen function. Press the button to make the layer of the lowest priority fill the entire screen. Status LEDs: – On (blue): Full screen scaling is turned on. – On (white): Full screen scaling is turned off.
Input source buttons	Show the input source status and switch the layer input source. Status LEDs: • On (blue): An input source is accessed. • Flashing (blue): The input source is not accessed but used by the layer. • On (white): The input source is not accessed, or the input source is abnormal.
Shortcut function buttons	• PRESET: Access the preset settings menu. • TEST: Access the test pattern menu. • Freeze: Freeze the output image. • FN: A customizable button

Rear Panel

Rear panel must have the following or equivalent functionalities.

Input Connectors		
Connector	Qty	Description
3G-SDI	1	• ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inputs supported • Max. input resolution: 1920×1080@60Hz • Deinterlacing processing supported • 3G-SDI loop output supported • DOES NOT support input resolution and bit depth settings.
HDMI 1.4	2	• Max. input resolution: 3840×1080@60Hz or 3840×2160@30Hz • HDCP 1.4 compliant • Mosaic of two HDMI 1.4 inputs supported

		• Custom resolutions supported – Max. width: 4092 pixels (4092×1136@60Hz) – Max. height: 3981 pixels (1060×3981@60Hz) • Loop output supported on HDMI 1.4 1 • DOES NOT support interlaced signal inputs
DVI (HDMI 1.4)	2	• Max. input resolution: 3840×1080@60Hz or 3840×2160@30Hz • HDCP 1.4 compliant • Custom resolutions supported – Max. width: 4092 pixels (4092×1136@60Hz) – Max. height: 3981 pixels (1060×3981@60Hz) • Mosaic of two DVI inputs supported • Loop output supported on DVI 1 • DOES NOT support interlaced signal inputs
Output Connectors		
Connector	Qty	Description
Ethernet ports	10	Gigabit Ethernet ports • Max. loading capacity: 6.5 million pixels • Max. width: 10,240 pixels • Max. height: 8192 pixels Status LEDs: • The top left one indicates the connection status. – On: The port is well connected. – Flashing: The port is not well connected, such as loose connection. – Off: The port is not connected. • The top right one indicates the communication status. – On: The Ethernet cable is short-circuited. – Flashing: The communication is good and data is being transmitted. – Off: No data transmission
HDMI 1.3	1	• Support monitor and video output modes. • The output resolution is adjustable.
OPT	2	10G optical fiber ports • OPT 1: Self-adaptive, either for video input or for output – When the device is connected with a fiber converter, the port is used as an output connector. – When the device is connected with a Pixelhue video processor, the port is used as an input connector. – Max. capacity: 1x 4K×1K@60Hz or 2x 2K×1K@60Hz video inputs • OPT 2: For output only, with copy and backup modes OPT 2 copies or backs up the output on 10 Ethernet ports.
		Single mode OPT module OPT fiber selection:

		description: - Hot swappable - Transmission rate: 9.95 Gbit/s to 11.3 Gbit/s - Wavelength: 1310 nm - Transmission distance: 10 km	- Model: OS1/OS2 - Transmission mode: Single-mode - twin-core - Cable diameter: 9/125 μm - Connector type: LC - Insertion loss: ≤ 0.3 dB - Return loss: ≥ 45 dB
		Multi-mode OPT module description: - Hot swappable - Transmission rate: 9.95 Gbit/s to 11.3 Gbit/s - Wavelength: 850 nm - Transmission distance: 300 m	OPT fiber selection: - Model: OM3/OM4 - Transmission mode: Multi-mode twin-core - Cable diameter: 50/125 μm - Connector type: LC - Insertion loss: ≤ 0.2 dB - Return loss: ≥ 45 dB
Control Connectors			
Connector	Qty	Description	
ETHERNET	1	Connect to the control PC or router. Status LEDs: - The top left one indicates the connection status. - On: The port is well connected. - Flashing: The port is not well connected, such as loose connection. - Off: The port is not connected. - The top right one indicates the communication status. - On: The Ethernet cable is short-circuited. - Flashing: The communication is good and data is being transmitted. - Off: No data transmission	
USB	2	- USB 2.0 (Type-B): - Connect to the control PC. - Input connector for device cascading - USB 2.0 (Type-A): Output connector for device cascading	
GENLOCK IN-LOOP	1	Connect to an external sync signal. Accepts bi-level and tri-level signals. - IN: Accept the sync signal. - LOOP: Loop the sync signal	
LIGHT SENSOR	1	Connect to a light sensor to collect the ambient brightness, allowing for automatic screen brightness adjustment.	

Specifications

Electrical Parameters	Power connector	100–240V~, 1.5A, 50/60Hz	
	Rated power consumption	35 W	
Operating Environment	Temperature	0°C to 45°C	
	Humidity	20% RH to 90% RH, non-condensing	
Storage Environment	Temperature	–20°C to +70°C	
	Humidity	10% RH to 95% RH, non-condensing	
Physical Specifications	Dimensions	483.6 mm × 351.2 mm × 50.1 mm	
	Net weight	4 kg	
Packing Information	Accessories	Flight Case	Carton
		1x Power cord 1x HDMI to DVI cable 1x USB cable 1x Ethernet cable 1x HDMI cable 1x Quick Start Guide 1x Certificate of Approval 1x DAC cable	1x Power cord 1x HDMI to DVI cable 1x USB cable 1x Ethernet cable 1x HDMI cable 1x Quick Start Guide 1x Certificate of Approval 1x Safety Manual 1x Customer Letter
	Packing size	521.0 mm × 517.0 mm × 102.0 mm	565.0 mm × 175.0 mm × 450.0 mm
	Gross weight	10.4 kg	6.8 kg
Noise Level (typical at 25°C/77°F)		45 dB (A)	

Video Source Features

Input Connectors	Bit Depth		Max. Input Resolution
- HDMI 1.4 - DVI (HDMI 1.4) - OPT 1	8-bit	RGB 4:4:4	3840×1080@60Hz (Standard)
		YCbCr 4:4:4	4092×1136@60Hz (Custom)
		YCbCr 4:2:2	4096×1080@60Hz (Forced)
		YCbCr 4:2:0	Not supported
	10-bit		Not supported
	12-bit		Not supported
3G-SDI	- Max. input resolution: 1920×1080@60Hz - DOES NOT support input resolution and bit depth settings. - Supports ST-424 (3G), ST-292 (HD) and ST-259 (SD) standard video inputs.		

Additional Requirements

- The panels must be able to display text, images, and dynamic effects that can adapt to the current configuration.

- The “Core Panel” must automatically recognize any changes to the configuration of expansion tiles and update the display output to fit within the new boundaries within the selected time frame.

*Warranty Requirements

The bidder shall provide a warranty period of five (5) years from the date of final acceptance of the LED Screen by N. Holhudhoo Council.

The warranty shall cover, at a minimum:

- LED display modules
- Power supplies
- Receiving cards
- Sending/controller system
- Internal wiring and connectors
- Manufacturing defects
- Labour costs
- Replacement parts

During the warranty period, the supplier shall repair or replace defective components at no additional cost to the Council.

The bidder shall submit a signed Warranty Commitment Letter clearly stating:

- Warranty period
- Items covered
- Response time
- Repair completion time
- Contact details for warranty service

Warranty Conditions

- During the warranty period all defective parts shall be replaced free of charge.
- All transportation, labour, accommodation and installation costs required for warranty repairs shall be borne by the supplier.
- Repaired or replaced components shall continue to be covered for the remainder of the warranty period.