Mooncell

Shenzhen Mooncell Electronics Co., Ltd

Master Controller Series

B1600 Sphere LED Display Product Specifications

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1 Product Overview

Product Introduction

Mooncell B1600 has its capability of receiving a variety of video signals,ultra high-definition 4KX2K image processing and sending capability;it can send the processed video to the led screen through the Ethernet Port and fiber port;with strong processing ability,super reliability and high cost performance.

Product Features

➢ *Varieties of input interface: 1X DP 1.2 Input; 1X HDMI2.0 Input;1X Audio Input*

➢ *Varieties of Output Interface: 16X Gigabyte Ethernet Port Output;4X Optical Fiber Bidirectional Duplex Transmission, 1X HDMI Loop Output.*

➢ *Multiple Communication Control Methods:2X USB Ports; 2X Serial Ports;1X 100 Megabyte Ethernet Port.*

➢ *Reserved 1x Gigabyte Ethernet Port for extension functions using.*

➢ *It supports Ethernet Port Loop Dual Backup, Dual Master Controller Backup.*

➢ *It supports to have multiple preset resolutions; and the user defined resolution is supported.*

➢ *It is compatible with 30HZ,50HZ,60HZ,120HZ and other Frame Rate Input.*

➢ *It supports the upper computer software to detect the operating parameters and status of the sending card.*

➢ *It supports to read the configurations back from where it was stored (configuration read back)*

➢ *It supports to detect the error rates of the gigabyte network.*

Application Scenarios

Mooncell B1600 could be widely used for sphere led display, Circle Led Display and a variety of displays that are special-shaped designed.
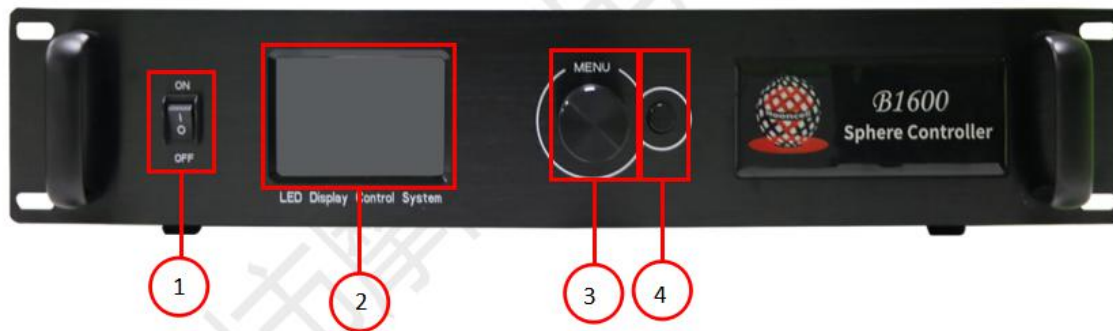
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2Product Parameters

Basic Parameters

Loading Capacity	*1 Network Port*	*650 Thousand Pixels*
	Entire Unit	*8.29 Million Pixels*
Loading Range	*Width*	*128—4092 Pixels*
	Height	*64—4092 Pixels*
Shift Range	*Width*	*0—4092 Pixels*
	Height	*0—4092 Pixels*

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Hardware Introduction

Front Panel

Front Panel Illustration

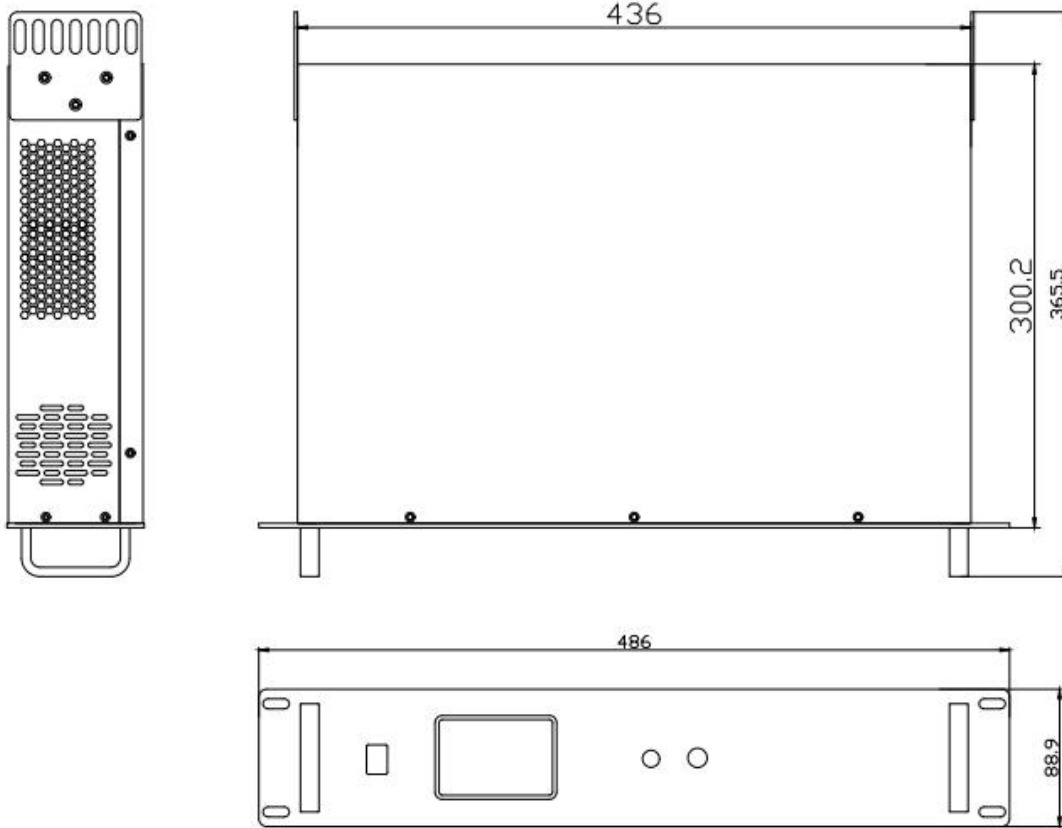| Front Panel Illustration		
#	Name	Illustration
1	ON/OFF	Power On/Off for Master Controller
2	LCD Indicator	To show the current status of the device and to set the menu item parameters
3	Rotating Knob	When it's in the Main Interface,Press the Knob to enter the Menu Operation Interface.
		When in the Menu Operation Interface,rotate the knob to select the menu,press the knob to select the current menu or enter sub-menu
4	ESC	Exit the current menu or operation.

Backside Panel

Backside Panel Illustration		
Input Interface		
Interface	QTY	Illustration
AUDIO	1	3.5mm Audio Input Interface
DP1.2	1	The maximum resolution 3840x2160@60Hz,downwards compatible. It supports HDCP1.3.
HDMI2.0	1	The maximum resolution 3840x2160@60Hz,downwards compatible. It supports HDCP1.4 and EDID 1.4.

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OUTPUT Interface		
Interface	QTY	Illustration
Ethernet Port	16	16 x Gigabyte Ethernet Port Output,The loading capacity could reach up to 8.29 million pixels. The maximum loading capacity for 1 single network port: When the input source is 8 bit then its gonna be 650 thousand pixels.
Optical Fiber	4	10G Optical Fiber Interface when it's for output end：OPT1、OPT2 are the main outputs；OPT3、OPT4 are the subsidiary outputs: When it's for input end：OPT1、OPT2 are main inputs；OPT3、OPT4 are subsidiary inputs；
HDMI OUT	1	HDMI Signal Loop Out
Control Interface		
Interface	**QTY**	**Illustration**
ETHERNET	1	to connect to the PC end
USB（square）	1	to connect to the PC end
USB（flat）	1	the device cascading connection loop out
RS232	2	1 x DB9 receptacle(female) and 1 x DB9 Plug(male) interface to connect the central control devices.
AUX ETH	1	reserved gigabyte Ethernet Port for extended functions
Power Interface		
Interface	**QTY**	**Illustration**
Power Port	1	AC-100-240V-50/60HZ AC Power Connector

Dimensions

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3Product Specifications

Specifications

Electric Parameters	Input Voltage	AC-100-240V-50/60HZ
	Rated Power	70W
Operating Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH No Solidification
Dimensions	483mmX300mmX89mm(Length x Width x Height)	
Net Weight	6.2Kg	
Packaging	1 x MTB1600. Peripherals: 1x USB Cable, 1x DVI Cable, 1x DP Cable. 1x Disc.	

Precautions

1.   High voltage danger: The working voltage of this product is AC -100V ～240V.
2.   It is forbidden to immerse conductive objects such as liquids and metal fragments into the equipment to avoid safety accidents.
3.   Please use the equipment in a dry and clean environment.

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