MTB400E Master Controller

Specification V3.2

Shenzhen Mooncell Electronics Co., Ltd

1 Product Overview

Product Introduction

MTB400E is the large sending enclosure produced by Mooncell. It supports 1x DVI & 1x HDMI video signal input and comes with 4 network port outputs. The maximum loading capacity can reach up to 2.6 million pixels.

Product Features

➢ **1x DVI & 1x HDMI video signal input, synchronous transmission via the network cable.**

➢ **1x AUDIO input,synchronous transmission via the network cable.**

➢ **4x gigabytes Ethernet output ports,it supports the arbitrary splicing.**

➢ **1x USB port communication, multiple sending cards could be cascading connected to one computer.**

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

➢ **It supports to have multiple preset resolutions:1024×768 、 1280×1024 、 1366×768 、 1600×1200 、 1920×1080 、 2048×1152 、 2560×960 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

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

➢ It supports to have the ST-EXT extension panel(optional) to get the cascading control and to automatically adjust the brightness.
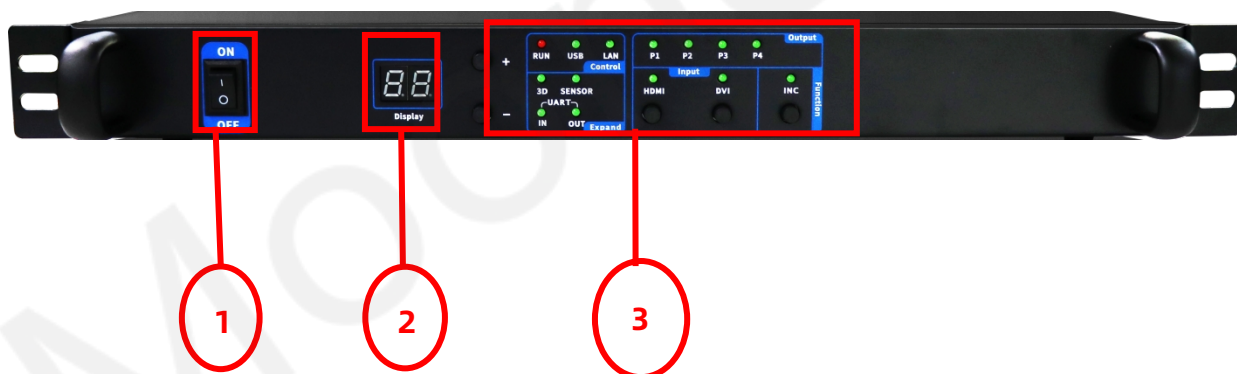
Application Scenarios

Mooncell MTB400E with powerful video processing and sending ability which has been widely used in various application scenarios, such as: Stage, Conference,Event, Exhibition ,High-end Rental and Small Pixel Pitch Led Displays.

2 Product Parameters

Basic Parameters

Loading Capacity	1 Network Port	650 Thousand Pixels
	Entire Unit	2.6 Million Pixels
Loading Range	Width	128—4096 Pixels
	Height	64—4096 Pixels
Shift Range	Width	0—4095 Pixels
	Height	0—4095 Pixels

Hardware Introduction

Front Panel

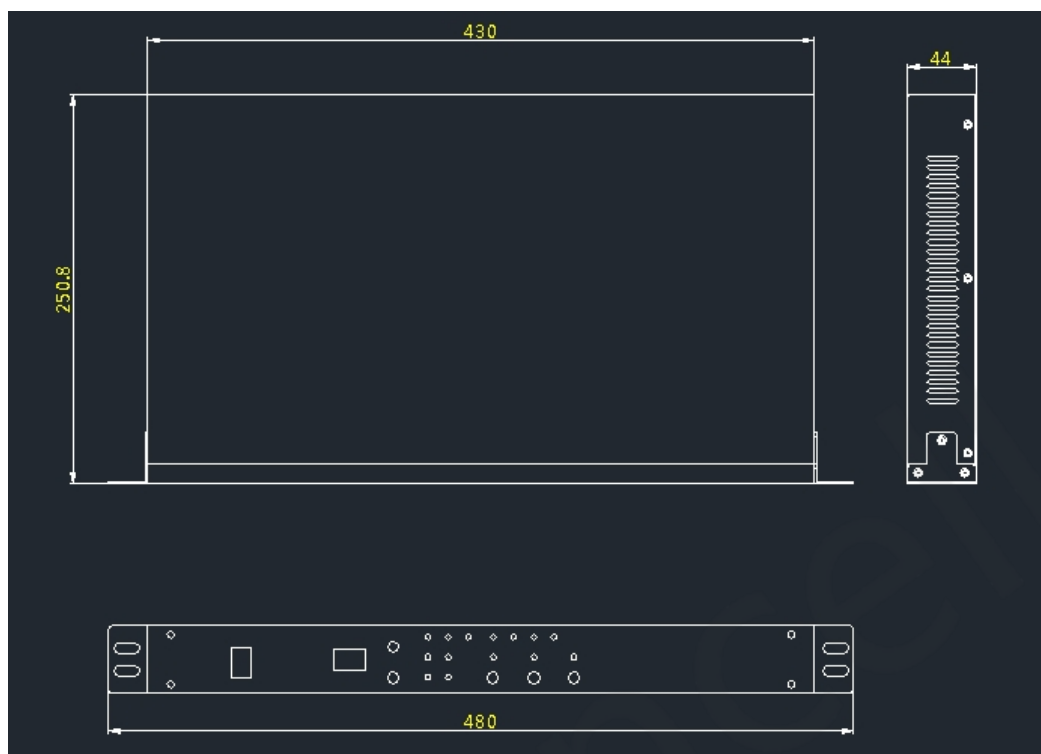| Front Panel Illustration		
#	Name	Illustration
1	ON/OFF	Power ON/OFF
2	Digital Display	To show the brightness value
3	Status Indicator and Function Keys	To show the operating status of the controller and function operation

Backside Panel

Backside panel illustration		
Input interface		
#	Name	Illustration
2	Audio	3.5mm AUDIO INPUT PORT
	DVI	DVI VIDEO SIGNAL INPUT PORT
	HDMI	HDMI VIDEO SIGNAL INPUT PORT
Output Interface		
#	Name	Illustration
3	Gigabyte Ethernet Port	P1-P4:Output Network Port:1-4
		maximum 650 thousand pixels for 1 network port
		it supports network port loop backup
Control Interface		
#	Name	Illustration
1	USB（B Type）	B Type USB Socket，to get it connected to the software on the PC to communicate
	LAN	100 Megabyte Ethernet Port（Reserved）
Extended Interface (Optional)		
#	Name	Illustration
4	IN	Serial Port Communication Input
	OUT	Serial Port Communication Output
	3D	3D Receiver Communication Port
	SENSOR	Sensor Communication Port
Power Interface		
#	Name	Illustration

5	AC Power Port	AC-100-240V-50/60HZ AC Power Port

Indicator Illustration

Indicator	Illustration	
Output		
P1-P4	flickering at a constant speed	Gigabyte signal communicates well
	Long-lasting on	No gigabytes signal
Input		
DVI	Long-lasting on	DVI Signal Input is normal
	Long off	NO DVI Signal Input
	Button	to select the DVI Input
HDMI	Long off	HDMI signal input is normal
	Long off	No HDMI Signal Input
	Button	To select the HDMI Input
Control		
USB	Long lasting on	USB Connection is normal
	Long off	NO USB Cable connected
LAN	Long on	100 Megabyte Network is normally connected
	Long off	100 Megabyte Network Unconnected
Expand		
3D	Long lasting on	3D Receiver is normally connected
	Long off	3D Receiver is not connected
SENSOR	Long on	Sensor is normally connected
	Long off	Sensor is not connected
IN	Long on	serial port input is normally connected
	Long off	Serial port input is not connected
OUT	Long on	serial port output is normally connected.
	Long off	Serial port output is not connected

Dimensions

3 Product Specifications

Specifications

Electric Parameters	Input Voltage	AC-100-240V-50/60HZ
	Rated Power	16W
Operating Environment	Operating Temperature	-20℃ - 70℃
	Operating Humidity	10%RH-90%RH No Solidification
Dimensions	480mmX250.8mmX44mm(Length x Width x Height)	
Net Weight	2.9 Kg	
Outer Packing	515*130*355mm	
Gross Weight	3.95 KG	

Precautions

➢ **High voltage danger: The working voltage of this product is AC - 100V ~ 240V.**

➢ **It is forbidden to immerse conductive objects such as liquids and metal fragments into the equipment to avoid safety accidents.**

➢ **Please use the equipment in a dry and clean environment.**