

Innovative, fashionable and intelligent

LED Shelf



Shelf LED display P1.2/P1.5/P1.5625/P1/875/P2

PRODUCT MANUALS

1. Preface

1. Instructions

- 1) This manual is applied to Shelf LED displays; To better use the product, this manual systematically introduces the product make up, interface, specification, also the installation, wiring ;
- 2) Manual version is V1.1, which modifies steps of frame disassembly and mobile phone parameters setting.

1.2 Safety Notice

Warning! Please read below safety instructions before installation, power-up, operation and testing



Warning!	Warning!	Warning!	Warning!	Warning!	Warning!
Safety risk may result equipment damage or security issues	Please read this manual before operation	Incorrect voltage may result in equipment damage	Please pay attention to protective measures to prevent any danger	Inflammable	Harmful to eyes

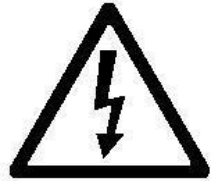


Please read below safety instructions before installation, power-up, operation and testing;

Make sure to follow the safety instructions, for any questions, please contact us for assistance.



- Due to flame, electric shock, fall down, this product may cause injury to person, even death;
- This product is not suitable for swimming pools, sauna, bathroom and other humid environments;
- This product is non-waterproof, or cannot be used in complete outdoor environments;
- Please do not block the ventilation holes during operation;
- Please take moisture-proof measures when packing and stock;
- Please do not drop, strike, scratch, warp or shake LED display or external equipment;
- Please make sure the front protection panel out of scratch with hard objects;
- Please make sure the product is operated under professional staff due to inside strong current;
- please make sure the ground is flat and even before placing the product;



- Please make sure this product earthed correctly to ensure safety and prevent electrical shock;
- Please cut off in lightning weather or make sure taking some lightning protection measures. Please cut off if no long no use;
- Please cut off display power under situations of unused, disassemble, installation, maintenance;
- Please make sure the AC power meets local building & electrical standards and equipped with overload and earth faulty protection;
- Please make sure and check electricity, cable and all connected equipments meet current requirements before using this product;
- make sure power cable no broken, aging, humidity. Please replace with a new one if any over-heat situation happens;
- Please make sure the product is operated by professional personnel due to inside strong current; For any questions, please consult with professional personnel;
- Please take eye-protection measures and do not watch the screen directly when screen is at 100% brightness;
- Please do not use any optical devices with concentrated function to watch the screen in case of eye burn;





- Please make sure screen, processor and power with good heat ventilation, at least 0.1m distance with other staff;
- Please do not stick any object on screen;
- Please do not refit the product and add new parts;
- Please do not exposure the product to sun, make sure the environment is less than 45 degrees;
- Please wear a helmet to prevent body injury;
- Please make sure any fixed and connected structures meet safety standards;
- Please hold the screen firmly when joint units to prevent drop or tip-over;
- Please make sure the ground is flat and even before placing the product.



Warning: Manufacturer is not responsible for any incorrect, improper, irresponsible or unsafe operations.

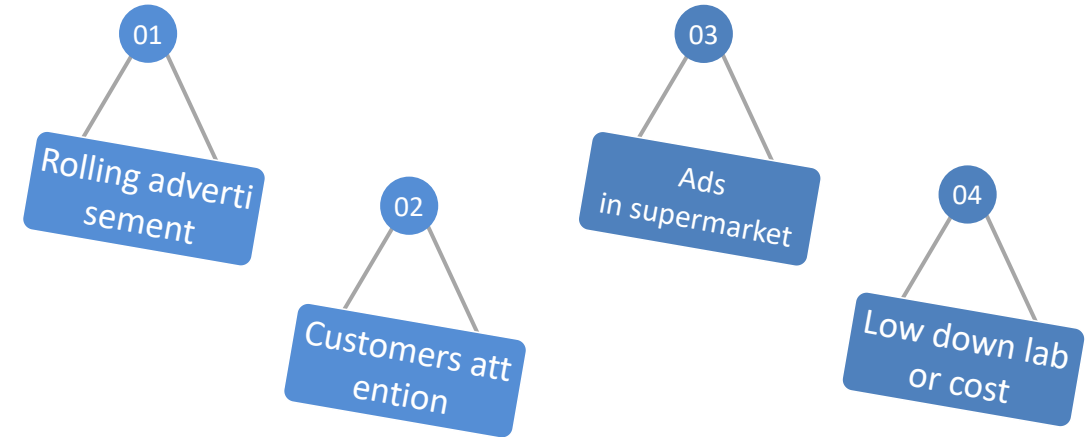
Product description

The Smart LED shelf Billboard is a slim LED advertising screen designed for impact and creative visual marketing. You can upload content with USB, Wifi, 4G, network. You can connect multiple Smart shelf Billboard to create a large screen or divide the screens to play multiple video product promotions.

Light enough to be moved and big enough to be seen at a distance makes our Smart shelf Billboards a real asset to business who wish to have a high visual impact to attract attentions.



Product future



The supermarket display is currently in the most basic blank stage of the market.

At present, only a few brands are trial-installing applications. Wal-Mart has trial-installed 4 supermarkets in the United States, which has aroused the interest of most supermarkets around the world for LED shelf screens. With the advent of the 5G era and the era of smart new retail, for the value of users and advertising, it is already possible to predict the market investment and application of LED shelf screens in global supermarkets.

2. Product Introduction

2.0 Features

Shelf LED displays:

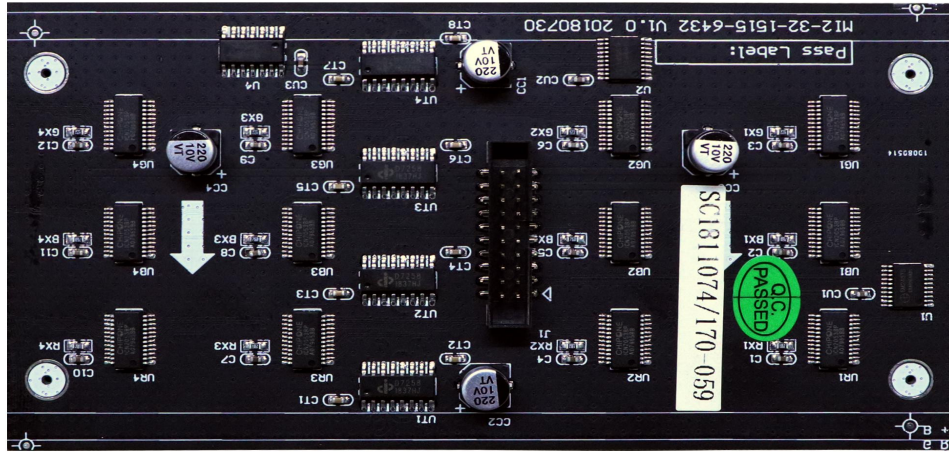
Pixel Pitch **P1.2- P1.5 -P1.5625- P.1875- P2-P2.5**

Shelf LED displays is excel in:

- Super slim in depth and light in weight.
- 22mm thickness ,thickest in the whole market, easy to install and move.
- Multiple installation modes, such as stand, wall-mounted and etc.
- Plug-in display, simple operation.
- Multiple linkage modes, such as single display application, cascaded application and creative application, etc.
- USB/ Wi-Fi/ HDMI / cable connection; mobile phone & PC quick management & publish.
- LAN integrated publish & remote publish via internet.
- Calibration data saved on modules, recover factory settings in 5s.

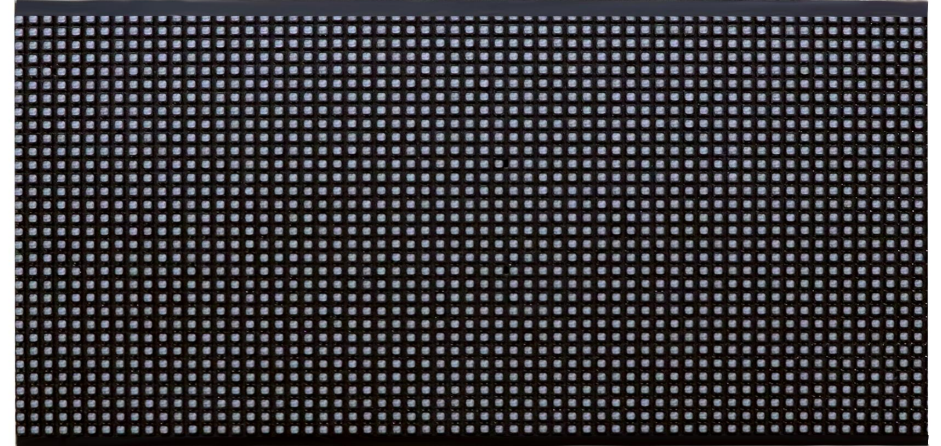
2.2 Specifications

Module-GOB Craft



Back

60mm

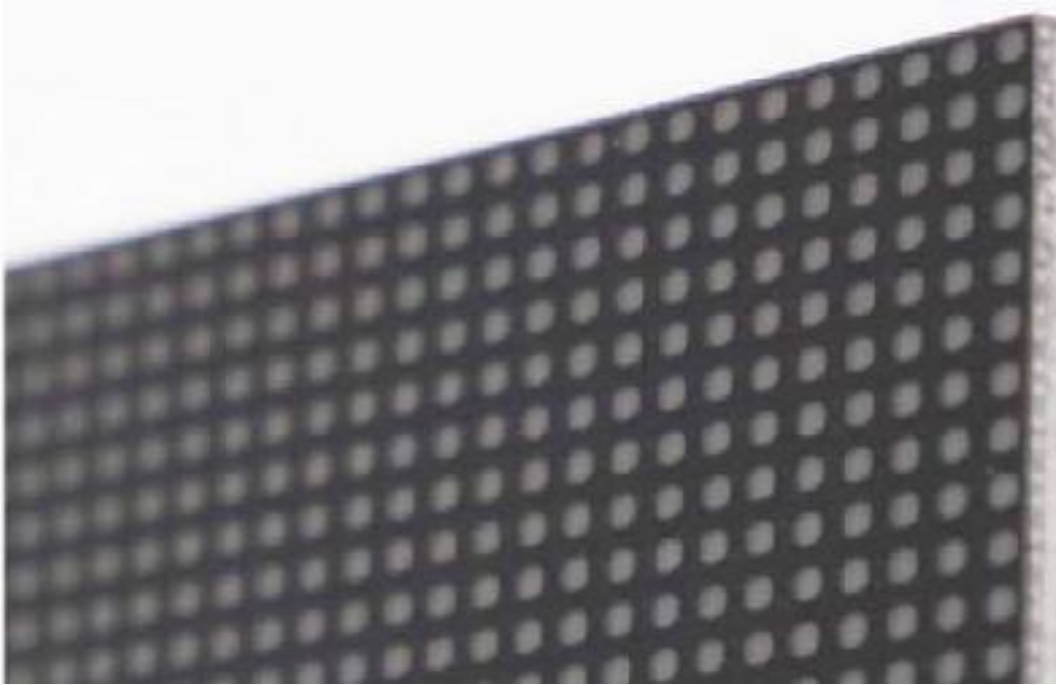


150mm

Front

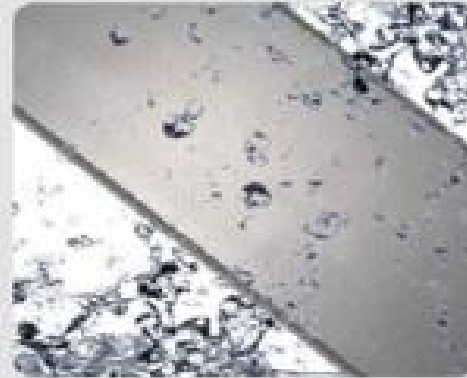
Front view and rear view for 150X60mm led Module for reference.

Other sizes are 300x120/200x50/200x150/200x100/128x128/128x64...



TOP-GOB TECHNOLOGY HIGH PROTECTION

TOP-GOB Process do a surface coating and whole PCB board is fully sealed with epoxyresin; which enhance the protection level from physical damage with anti-fog /dust-proof, easy to clean, abrasion proof, damp-proof, anti-collision, antistatic, anti oil-pollution and anti-oxidation etc.



Waterproof



Dustproof



Anti-collision



Antistatic

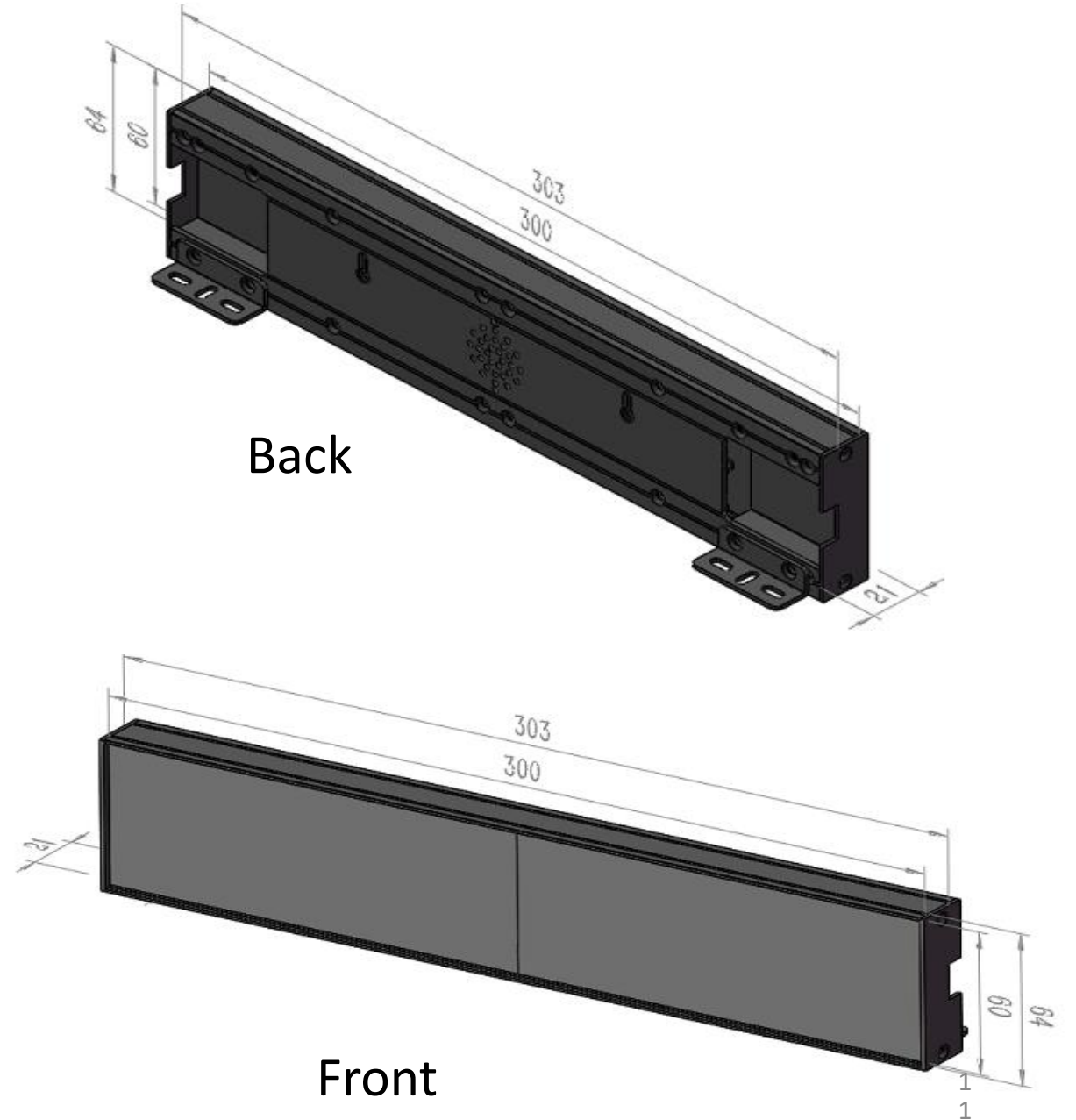
2.3 Specifications

Front view and rear view for 300mm long
for reference

Shelf led display (W×H×D):

with frame:303×64×21mm

Display area:300x60x21mm



2.4-1 Specifications









Optical Parameter	Pixel Pitch (mm)	P1.2mm	P1.5mm	P1.875mm
	Viewing Angle (H/V)	160° / 160°	160° / 160°	160° / 160°
	Brightness (cd/sq.m.)	500	500	500
	Refresh Rate (Hz)	>3840	>3840	>3840
	Optimized Viewing Distance (m)	1~10	1~10	1~10
Electrical Parameter	Input Voltage	AC110V or AC220V±10%50/60Hz		
	Input Interface	Ethernet / USB / Wi-Fi		
Structure Parameter	Module Size in Pixel (W×H)	125x50	100x40	80x32
	Module Size in mm (W×H)	150x60mm/300x120mm/More other size		
	IP Rating	IP 40		
	Maintenance	Rear		
Operation Parameter	Operating Temperature/ Humidity (°C/RH)	-10°C~40°C/10~90RH%		
	Certification	CCC / CE / ETL / FCC		

2.4-2 Specifications

Optical Parameter	Pixel Pitch (mm)	P1.5625mm	P2mm
	Viewing Angle (H/V)	160° / 160°	160° / 160°
	Brightness (cd/sq.m.)	500	500
	Refresh Rate (Hz)	>3840	>3840
	Optimized Viewing Distance (m)	1~10	1~10
Electrical Parameter	Input Voltage	AC110V or AC220V±10%50/60Hz	
	Input Interface	Ethernet / USB / Wi-Fi	
Structure Parameter	Module Size in Pixel (W×H)	128x32	64x32
	Module Size in mm (W×H)	200x50mm/200x100mm	128x64mm/128x128mm/256x128mm
	IP Rating	IP 40	
	Maintenance	Rear	
Operation Parameter	Operating Temperature/ Humidity (°C/RH)	-10°C~40°C/10~90RH%	
	Certification	CCC / CE / ETL / FCC	

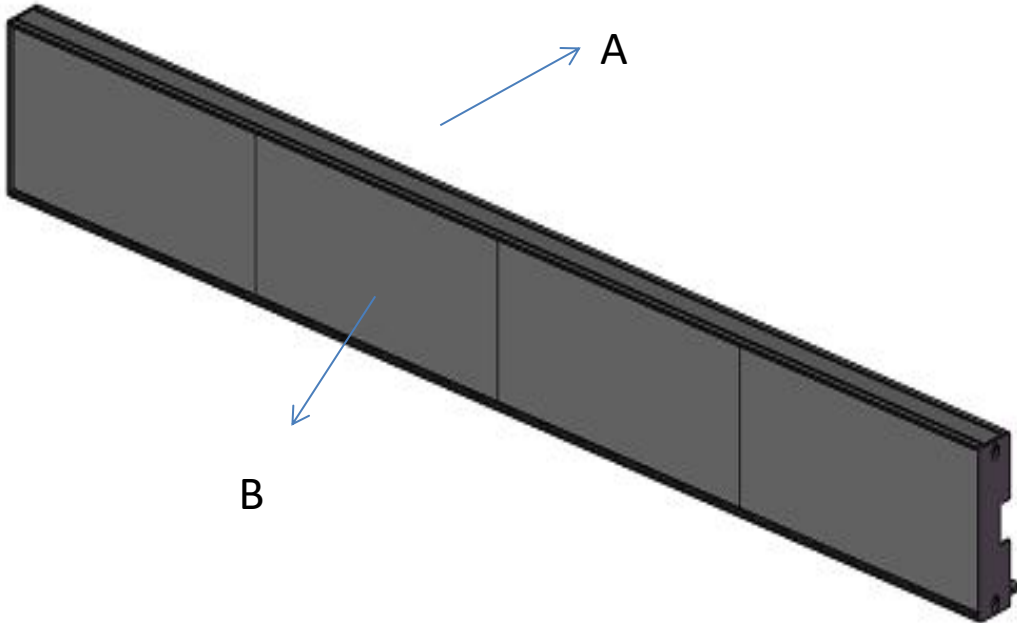
3.Packing List

3.1 Standard bill of material

NO.	Product	Unit (pcs)	Picture
1	shelf led display	1	
2	Power box	1	
3	Control Box	1	
4	screw for fixing plate to Shelf Led Display plate for multi installation between Shelf led display	2	
5	Plate connect with self drilled screw and shelf talker Self Drilled screw for fixing plate to shelf talker	2	
6	Signal cable with screen	1	
7	power cable with screen	1	
8	Power cable with power box	1	

4.Product Makeup & I/O Interface Instruction

4.1 Product makeup



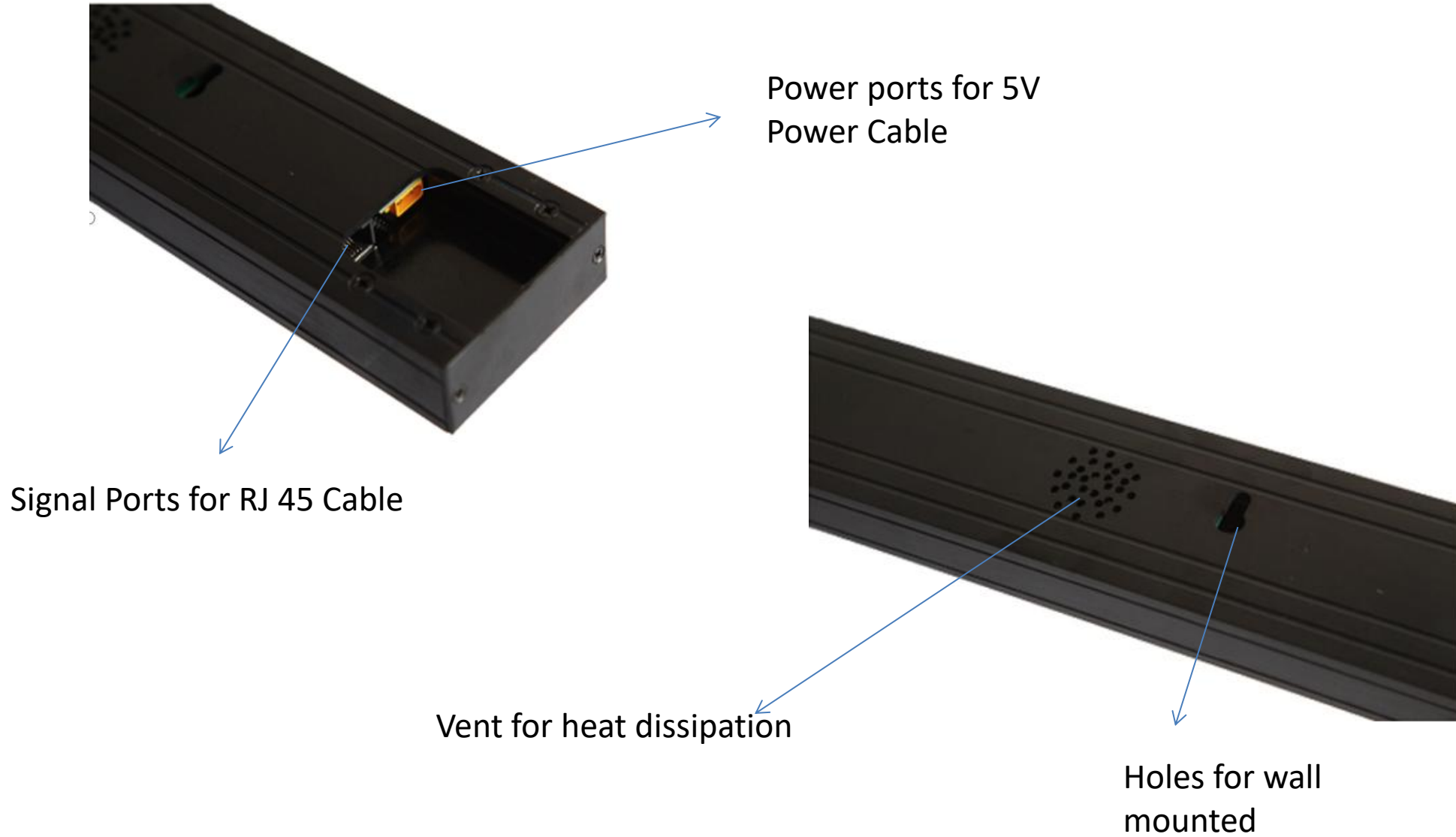
A. Aluminum alloy frame :

Made of 1 pieces straight long frame(connecting to aluminum plate at side)
Perfect flatness in display

B. GOB Technology on Modules:

Better protection against touching ,hitting and water spray

4.2 I/O Interface



5. Installation Instructions

1) Installation Preparation



Screwdriver



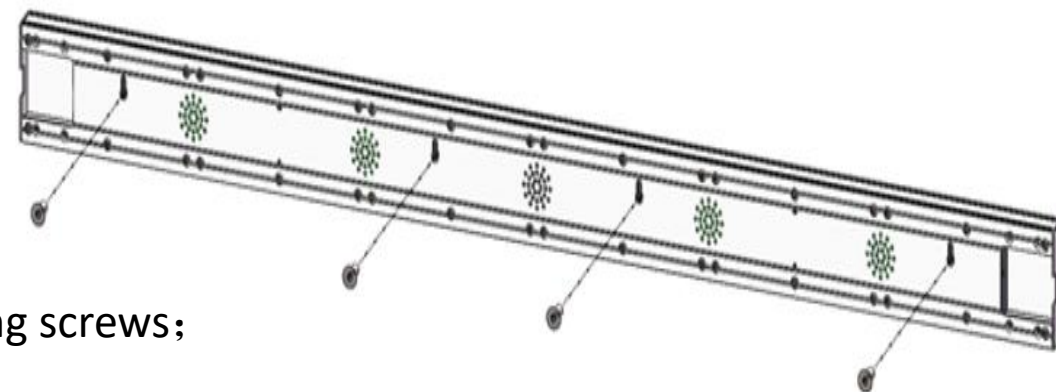
Glove

Preparation:

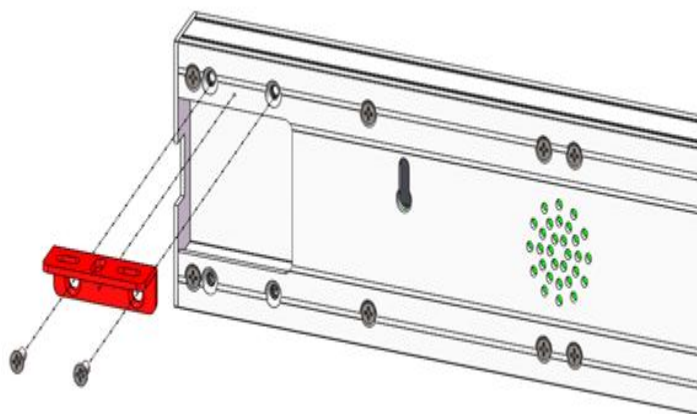
1. Please operate on a clean and flat platform. If directly on ground, please protect the unit from any damage.
2. Please operate with gloves to keep clean.

5.1 Installation Method

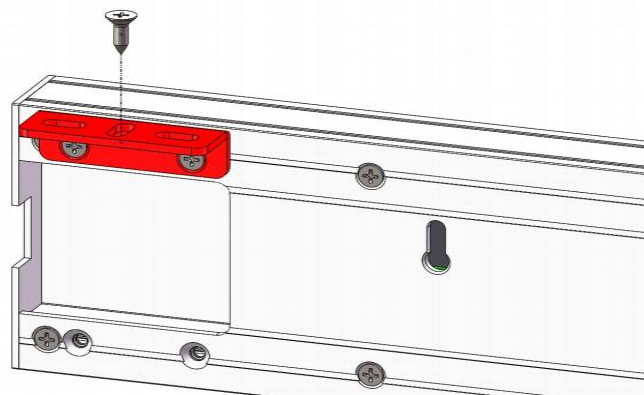
1. Attached screen by screwing M6X14 screws;
2. Attached screen with fold plate by M3X6 screws;
3. Attached screen to gondola with another side of fold plate by drilling screws;
4. Rendering of ②;



①



②

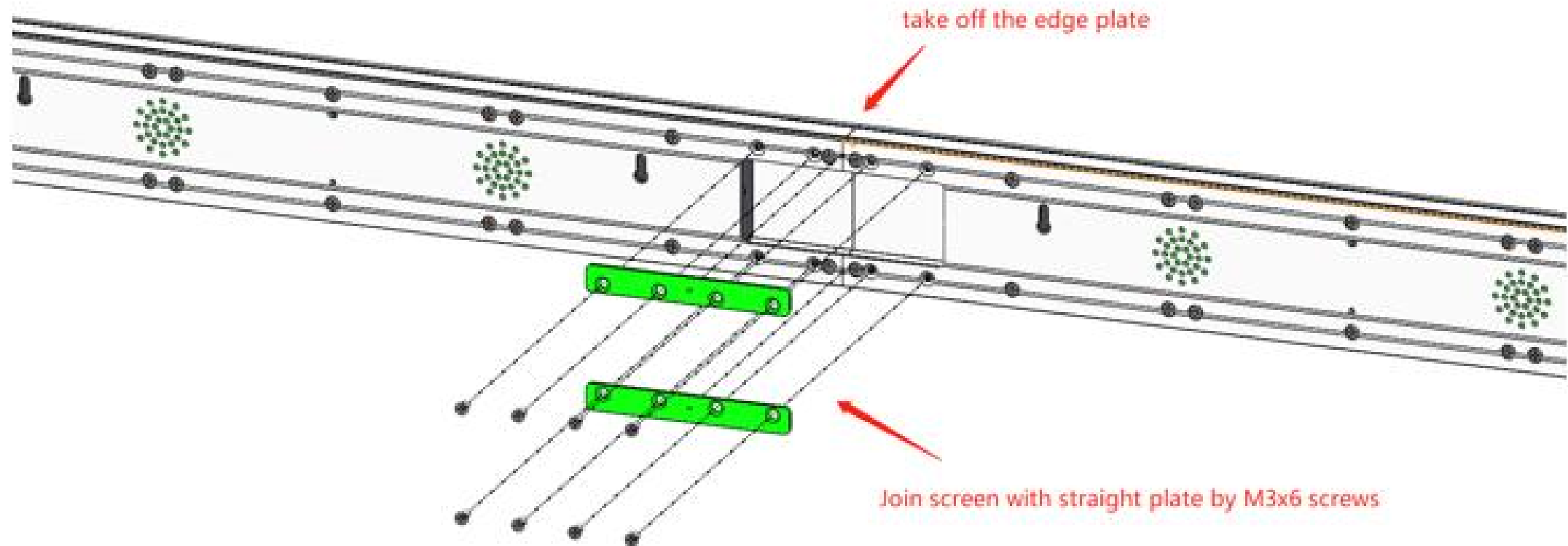


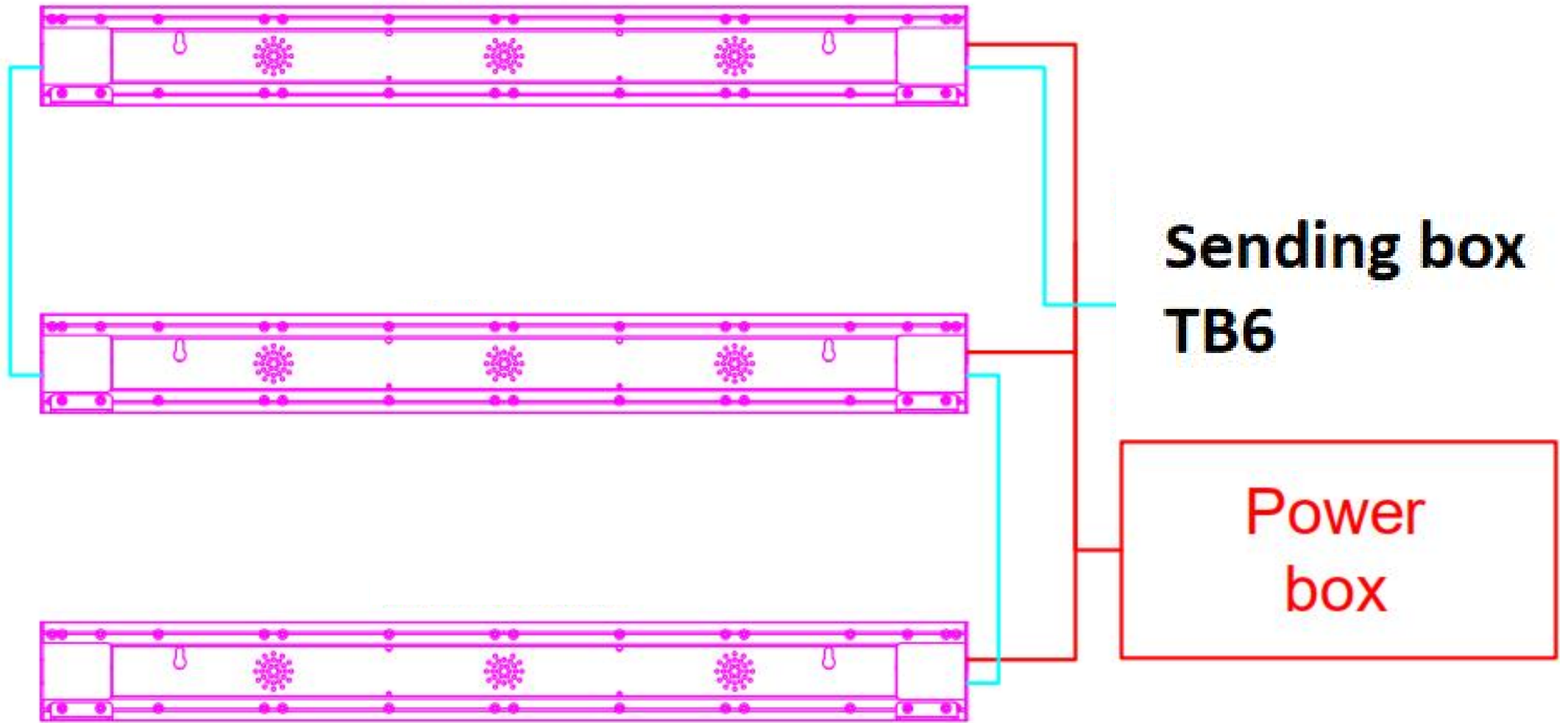
③



④

How to splice 2 pcs strips





Cableing diagramme of Shelf LED Display

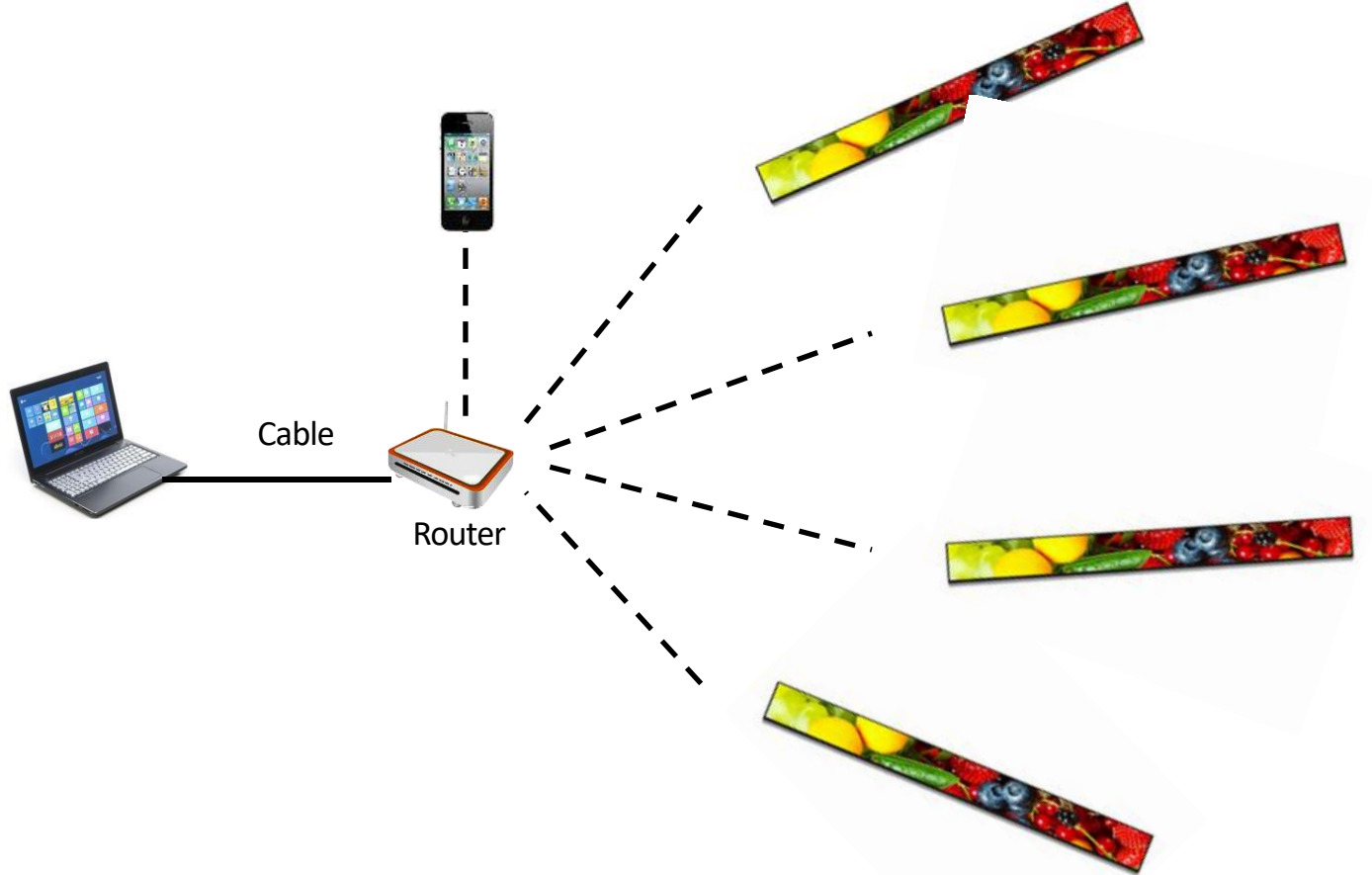
6.2 Display Application

6.2.1 Display Application Via Control Box



Control system diagram of Shelf Led Display

6.2 Shelf LED Display Router Application



Shelf LED Display router application connection diagram

6.4 is Shelf LED Display router application connection diagram. Using playing software updates playlist to each display. Each screen also can be controlled and managed via LAN and Internet.

6.2 Shelf LED Display Cloud Display Application

6.2.3 Shelf LED Display played via CLOUD

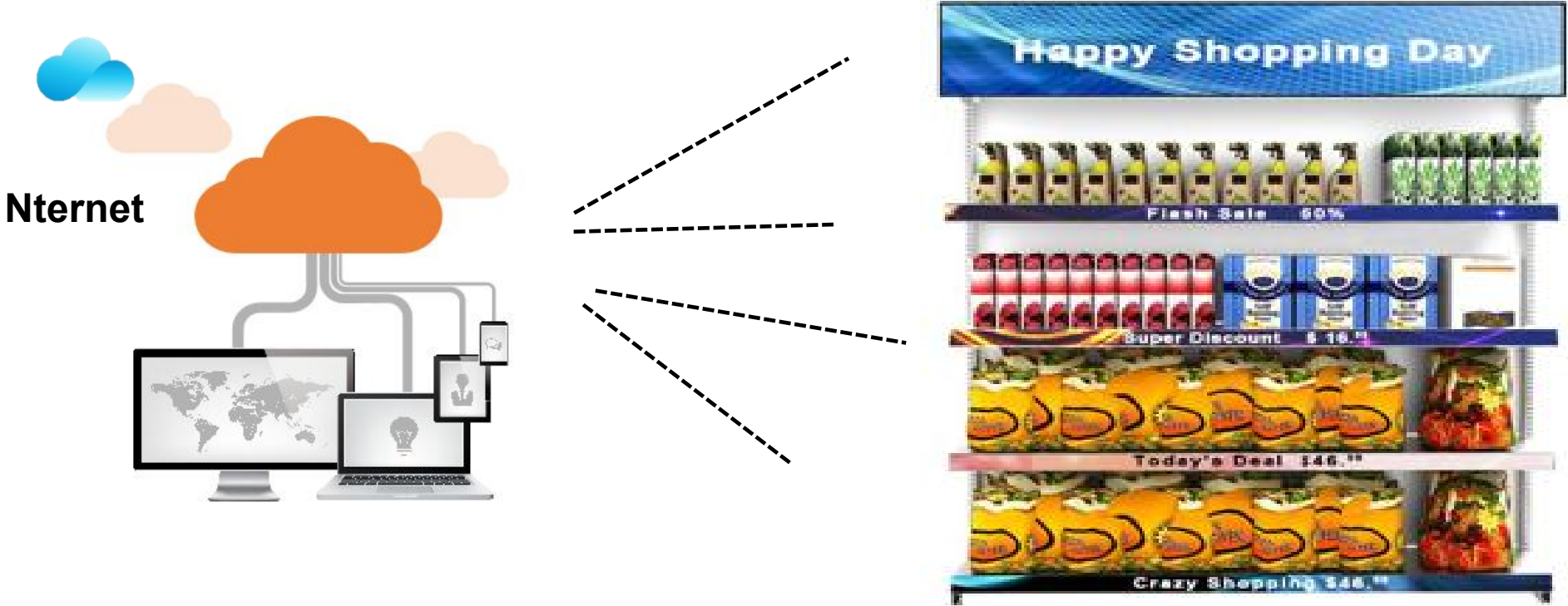
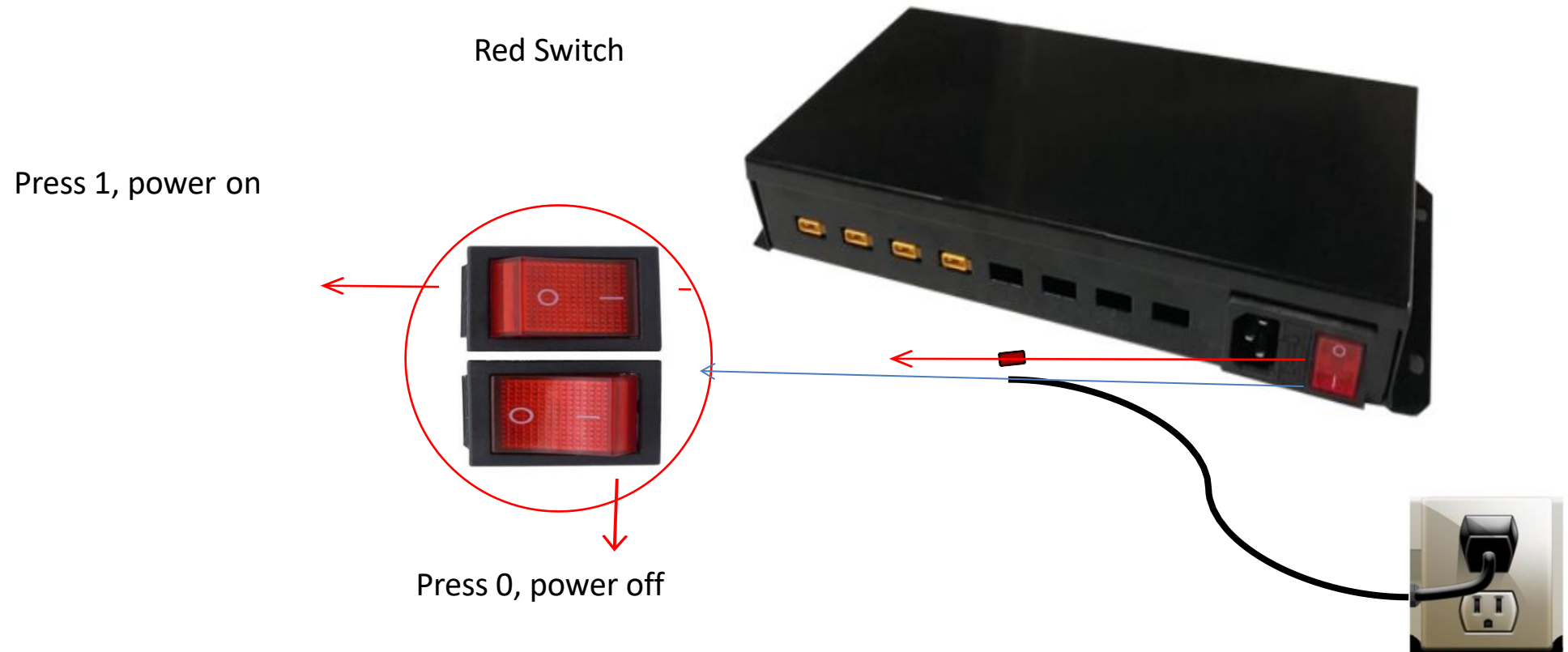


fig.6.4

Connect the TB6 for Shelf LED Display to Internet via Wi-Fi / Cable, log in the cloud platform, remotely control and manage the Shelf LED Display in different regions.

6.4 Startup instructions

- ① Connect power cord to the power supply after installation finished
- ② Press 1 on red switch, and display shall be lit up after 40s.
- ③ Prepare the playlist and import.



Nestlé Store Case——Pitch 1.5mm



Nivea Store Case——Pitch 1.5mm



Installed in a frost-free refrigerator to play advertisements and prices
Pitch 1.5 & Size 300x60mm



Mexico Convenience Store Case—Pitch 1.5625mm



Store shelf case



XXX store case

