COB

CHIP ON BOARD

LEDSINO

Shenzhen LEDSINO Optoelectronic Co.,Ltd.

LEDSINO

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Always offer better ser vice with gratitude.

Founded in 2011, Shenzhen LEDSINO Optoelectronics Co., Ltd. is a high-tech enterprise of L E D display integrating R&D, produc-tion and sales.Covers an area of more than 30,000 square meters, has an inde-pendent purification plant , research and development base ,as well as the industr y's most advanced production and testing equipment.

We have more than 3000 successful cases with a annual sale volume of 300 million yuan.There are five factors : powerful R & D capability, sensitive market insight ,excellent creative concept , special product design and strict producing technique.

From raw material procurement to production, installation and testing,LEDSINO attaches great importance to product quality and keeps standardized management. Each step carries out in accordance with the International Quality Control Process of I S O 9 0 0 1 : 2 0 0 8. We has high-class fully automatic production line and various advanced quality testing equipment. Producing processor will strictly follow I Q A , IP Q C , O Q A, S Q E , M Q E , P Q E , CQ E and rigorous 7 S quality inspection. The products have passed the quality certification of RoHS , CCC , CE , F CC , ETL , IP 6 7 dustproof and waterproof test , anti-sunlight glare test , electromagnetic compatibility test , high and low temperature test , heavy metal content test , etc. Above steps ensure that each product is stable and reliable at the factor y. And some products have passed the US UL certification.

The sales and ser vice network is constantly improving and expanding, mainly divided into two major sectors, domestic and international. The domestic market has covered 35 provinces/ municipalities and autonomous regions. The products has been exported to more than 130 countries and regions such as Europe, North America, South America, Russia, Saudi Arabia, India and Singapore,etc.

In the future, LEDSINO will always offer better ser vice with gratitude. Besides,we will continue to improve technology,offer better ser vice,sale better quality, and provide professional LED display system solutions for ever y customer. The goal is to let "China's wisdom" around the world.

COB Small Pitch

600*337.5mm Cabinet

| Waterproof | Dustproof | Anti-collision | Anti-static |

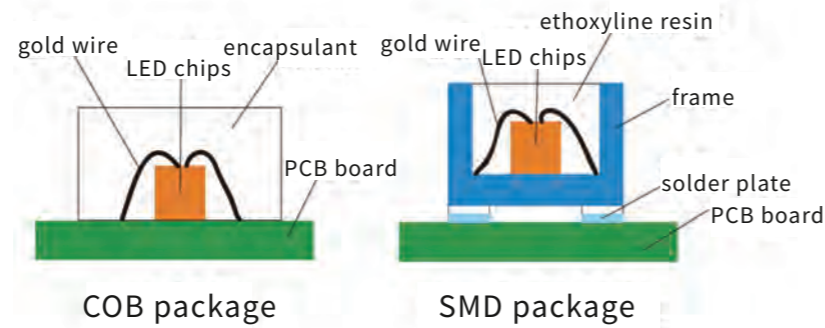| No-glare adjust to all environment | HD image high contrast ratio 8 5 0 0 : 1 | Wide viewing angle wide colour gamut | Omni-directional visualization |

Comparision of Package between COB and SMD

·COB,called chip on board, puts LED chips on the PCB board directly.

·SMD,called surface mounted devices,firstly puts LED chips and wires into the frame.Secondly package the frame with ethoxyline resin.Finally put it on the PCB board after reflow.

gold wire   encapsulant
LED chips
PCB board

COB package

gold wire   ethoxyline resin
LED chips
frame
solder plate
PCB board

SMD package

COB Advantage

1.Without diameter of single pixel, pitch could be smaller.
2.Reduce frame cost,lower heat resistance of chips,achieve high density package.
3.Use ethoxyline resin,improve protection function.
4.Without bare pixel foot,heat radiation by PCB board,more stable and reliable.
5.High package efficiency decrease cost.
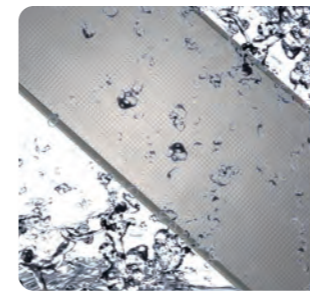6.Ultra wide 170 ° viewing angle bring good visual experience.

True Seamless Splicing

The cabinet is made of high-precision magnesium-aluminum alloy with a flatness of ≤ 0. 1 m m; the picture is uniform and there is no optical seam.
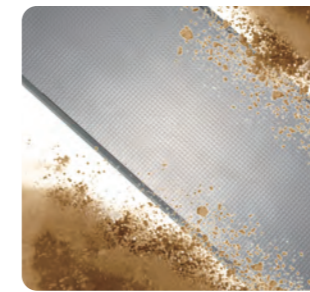
Physical Protective Performance

Full-board sealed with ethoxyline resin, with waterproof, moisture-proof, dust-proof, anti-collision, anti-oil, anti-oxidation, anti-static, wear-resistant, easy to clean characteristics.

waterproof   dustproof   anti-collision   anti-static

High Contrast

High contrast ratio 8500:1,vivid picture, florid color and perferct viewing effect.

Low Brightness and High Grey Level

With low brightness and high grey level,showing florid color, delicate picture.

Bad Quality LED Display

LEDSINO COB

High Refresh Rate

High refresh rate,stable image ,fluent dynamic playing.
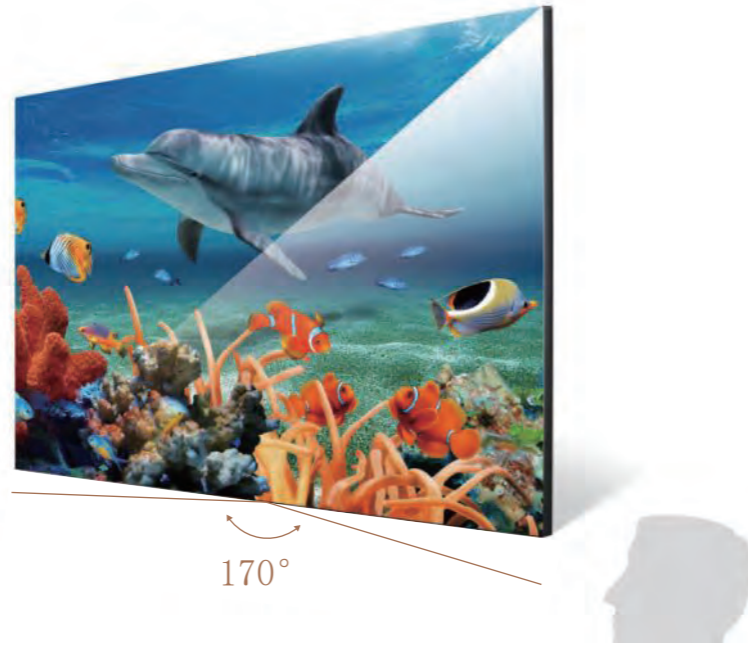

Bad Quality LED Display

LEDSINO COB

Perfect Scale 16:9

600*337.5mm standard cabinet size,follow scale 16:9,easy to combine 2K/4K/8K standard big screen.
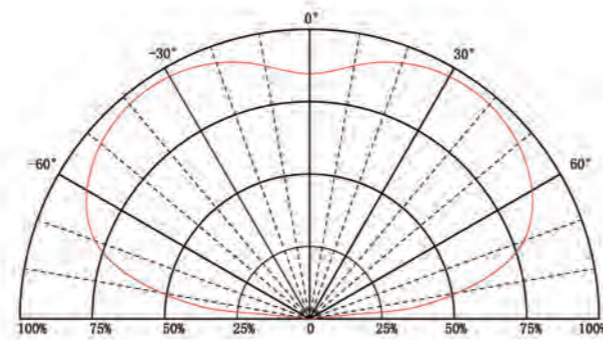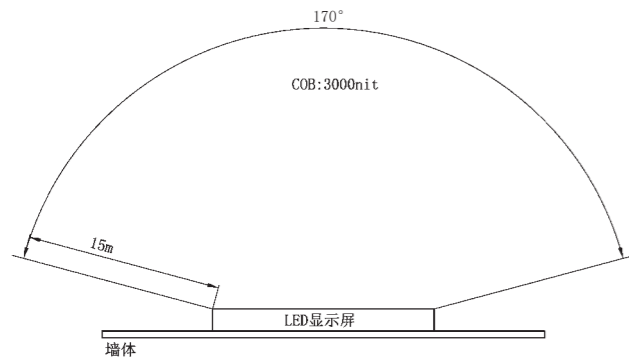

8K 16:9
4K 16:9
2K 16:9

Ultra Wide Viewing Angle

170° viewing angle of horizontal and vertical,suitable to view HD image at any angle,making the image vivid.

170°

HD Image

Wide color gamut, high color reproduction, constant brightness, clearer, sharper and more realistic picture.

Illumination Angle and Schematic

170°

COB:3000nit

1.5m

LED显示屏

墙体

0°

-30°   30°

-60°   60°

100% 75% 50% 25% 0 25% 50% 75% 100%

Safety Eye Protection

C O B product's high fill factor optical design, uniform illumination, reducing glare and glare; reducing blue light damage, safe for the human eye, effectively reducing viewing fatigue.

Front Maintenance Design

With the front maintenance tool, able to do hot swapped while power on, eliminating the maintenance space.

Installation Method

Easy to install and disassemble, various installation methods. It can be installed in TV stand/wall mount and has a variety of shapes.

COB Small Pitch Technical Specification

Model	P0.9375	P1.25	P1.5625
Pixel Pitch（mm）	0.9375	1.25	1.5625
Physical Density（dot/m²）	1137778	640,000	409,600
LED Configuration	1RGB	1RGB	1RGB
Module size（mmxmm）	300x337.5	300x337.5	300x337.5
Modules Resolution（PXxPX）	320x360	240x270	192x216
Scanning Mode	1/60	1/45	1/36
Brightness（cd/m²）	400	400	400
Grey Scale（bit）	14	14	14
Refresh Rate（Hz）	3840	3840	3840
Drive Mode	Constant Current	Constant Current	Constant Current
Horizontal Viewing Angel（Deg）	≥170	≥170	≥170
Vertical Viewing Angel（Deg）	≥170	≥170	≥170
Cabinet Resolution（PXxPX）	640x360	480x270	384x216
Cabinet Max Power Consumption（w）	130	130	130
Cabinet Average Power Consumption（w）	40	40	40
Cabinet Size（mmxmm）	600x337.5	600x337.5	600x337.5
Cabinet Weight（Kg）	6.0	6.0	6.0
Cabinet Thickness（mm）	78	78	78
Cabinet Material	Die-casting aluminum		
Color（M）	>16.7		
Input Voltage（V）	AC110V~220V+/-10%		
Refresh Frame Frequency（Hz）	50~60		
Protection Level	IP45		
Working Environment	Indoor		
Working Temperature（℃）	-40°~ +60°		
Storage Humidify（RH）	40%~60%		
Life Span（H）	100,000		

LEDSINO

I-TAG Series

900*175mm   900*60mm
1200*60mm   600*60mm

SHOWING YOUR COLORFUL LIFE

SHOWING YOUR COLORFUL LIFE

SHOWING YOUR COLORFUL LIFE

SHOWING YOUR COLORFUL LIFE

Waterproof

Dustproof

Anti-collision

Anti-static

No-glare
adjust to all environment

HD image
high contrast ratio 8 5 0 0 : 1

Wide viewing angle
wide colour gamut
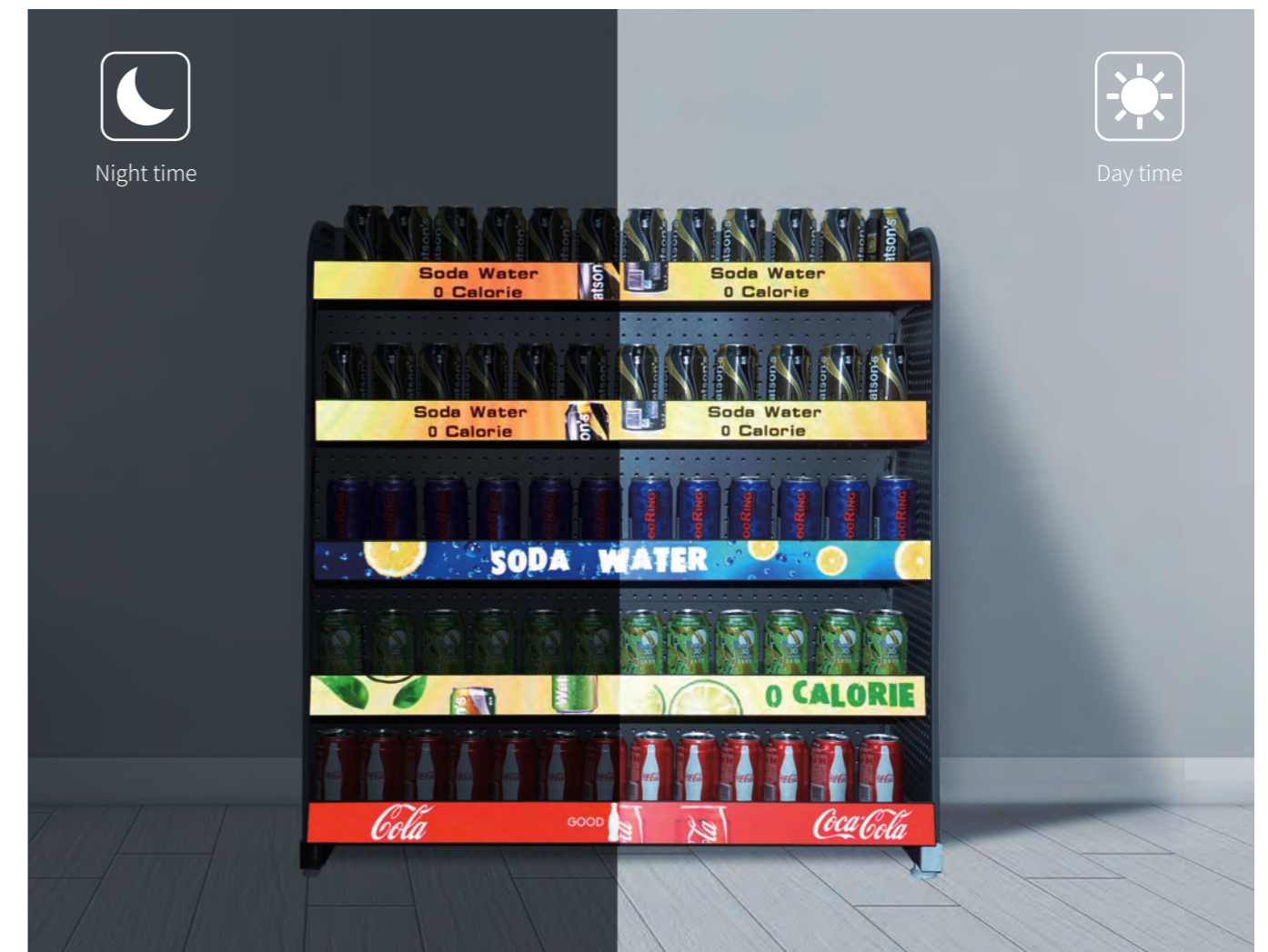
Omni-directional
visualization

7*24 Hours Round-the-clock work
High-efficiency and Reliable

·7 X 2 4 H r s with stable working
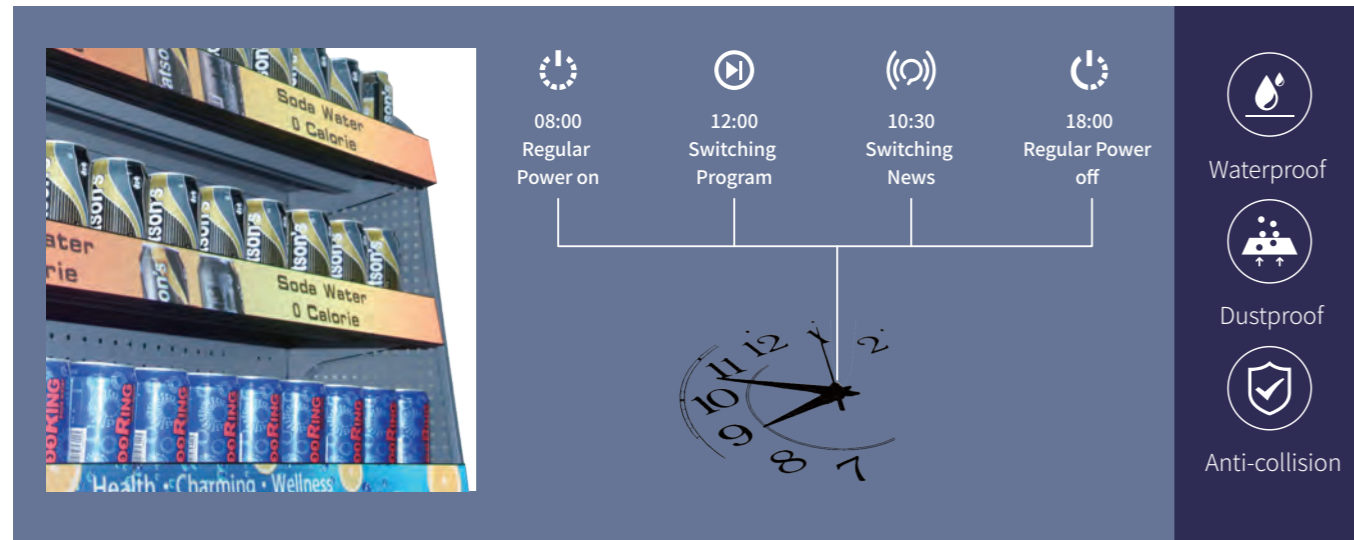
·Wifi/App/4G Control ,Ultral-low-power con-sumption

·Zero failure of display surfacee, over 60,000 hours average trouble-free running time

·Excellent physical protection, waterproof, dustproof, anti-static and anti-collision

Night time

Day time

Soda Water 0 Calorie

Soda Water 0 Calorie

Soda Water 0 Calorie

Soda Water 0 Calorie

SODA WATER

0 CALORIE

Coca-Cola

Support Time-scheduled Program and Timing Switch

Able to customize the playing time, playlist and equipment timing switch of the program; also waterproof, dustproof and anti-collision.

08:00 Regular Power on

12:00 Switching Program

10:30 Switching News

18:00 Regular Power off

Waterproof

Dustproof

Anti-collision

Support Multiple Program Distribution Channels
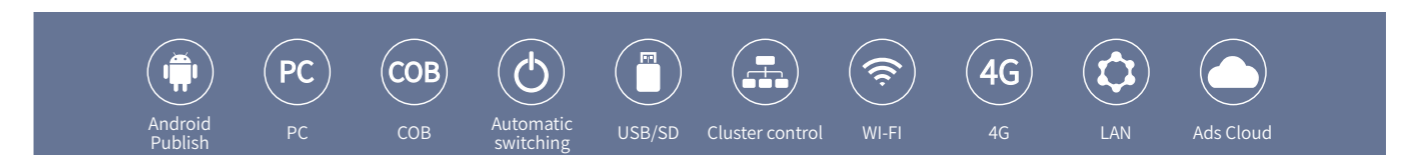
WIFI,4G,LAN,CLOUD,USB,SD CARD

USB/SD

WI-FI

4G

LAN

Various Strip Space
Make the Advertising Scene Flexible and Rich

Variable modeling

· Smart business supermarket | advertising display | road sign navigation | news information | catering recommendation | government office；

· Adjust to various installation need

· without computer control,one single control can carry up to 8 sets of S 9 , which can be used for split screen；

· The screen can be controlled by phone and note-book after scanning code.

Android Publish

PC

COB

Automatic switching

USB/SD

Cluster control

WI-FI

4G

LAN

Ads Cloud

Divide Display Area As You Like

Support to play video, picture, text, clock and other content at the same time;
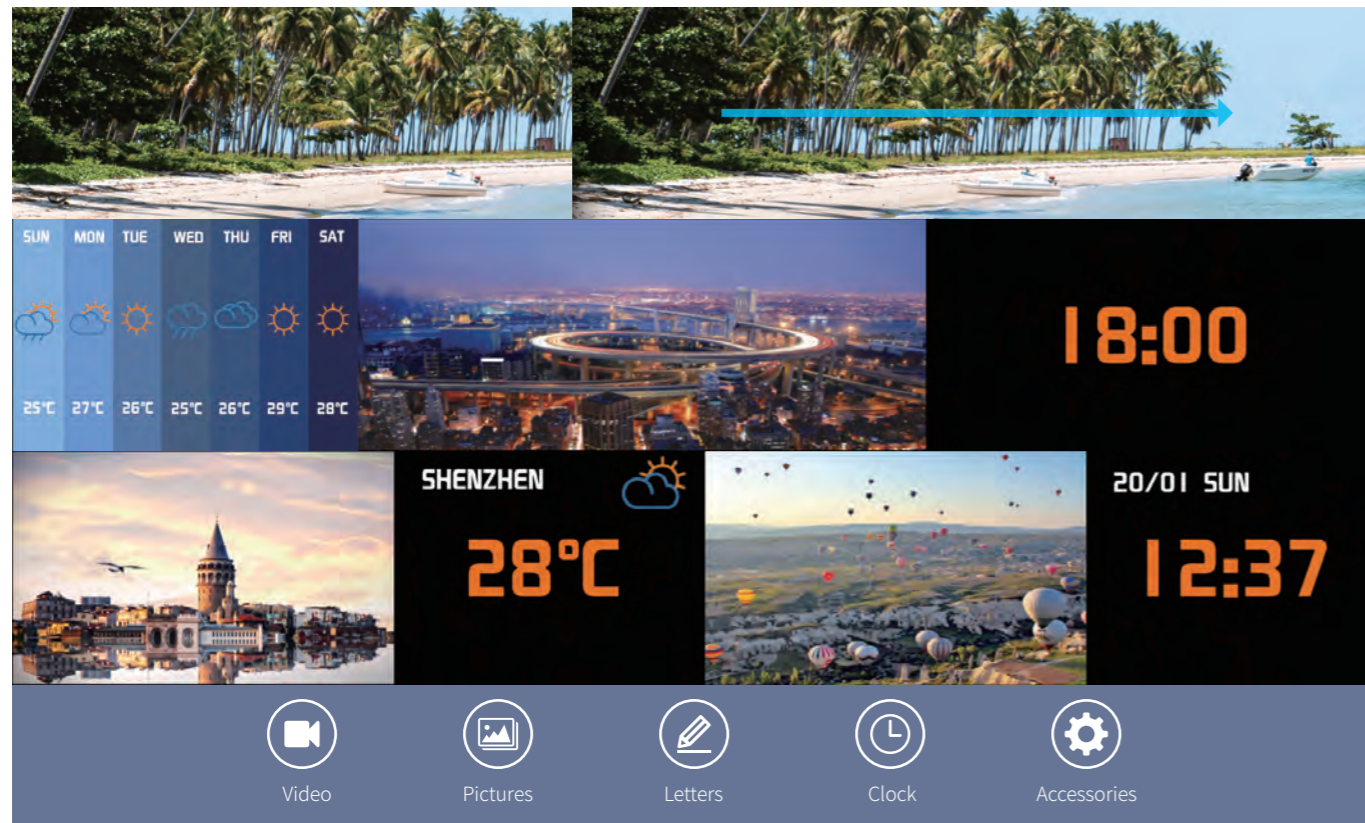
Supported format of pictures – bmp, JPG, PNG, gif;

Supported format of characters – TXT, rtf, Word, PPT, Excel;

Supported format of video – AVI, WAV, MPG, RM/RWVB,MOV, MP4, FLV;

Supported format of letters – Single line, static letters, multi-lines of letters;

Multi-windows – Max video windows is 2SSETS; real-time display of pictures with subscripts, running letters and signs, LOGO, time/ o'clock/week, weather forecasting; tailor-made windows with different display contents;

OSD – 32BITS is supported, real color of OSD; videos with letters and pictures in PIP or floating is supported; transparency is adjustable.
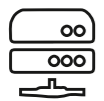
I-TAG Parameter

Screen					
Overall Dimension	T3 (300W * 60H mm)	Screen Type	COB	Brightness	50 - 600NITS
	T6 (600W * 60H mm)		CHIP ON BOARD		
	T9 (900W * 60H mm)		Active light-emitting screen		
	S9 (900W * 175H mm)				
	T1200 (1200W * 60H mm)				
Connection					
Input signal	DVI、HDMI、USB、SD card	Largest capacity	8SETS T9/Control Box	Memory	8G + 32G
Performance					
Contrast Ratio	10000 : 1	Gray Level	16BITS	Colors	281 trillion
Physical Specification					
Weight	T3 0.35 Kg	Seamless Splicing&Installation	< 0.01mm	Thickness	20 mm
	T6 0.7 Kg				
	T9 1.05 Kg		Yes		
	S9 3.15 Kg				
	T1200 1.4 Kg				
Operation Conditions					
Environment Temperature	-40~70℃	Environment Humidity	10%~90%RH	Protection Level	Waterproof, dust-proof and anticollision
Power					
PSU	100/240V、DC5V、50/60HZ	Power Supply	External		
Certification					
Safety Standard	CCC, LVD / CE, UL94	EMC	FCC，Class A/ CE		
Control					
Control Way	Mobile terminal, LAN , cluster control	Player	Built-in player, and compatible with common players		

Product Information

SUMMER 夏日冰爽		**T6** 600*60*20mm
SUMMER 夏日冰爽		**T9** 900*60*20mm
SUMMER 夏日冰爽		**S9** 900*175*20mm
SUMMER 夏日冰爽		**T12** 1200*60*20mm

Control System

ODM

Powerful

Processing

Accessories

Control box with signal delivery and PSU, Signal and power cables, Screws/Nuts, Tools, Manuals, Qualified Certification.

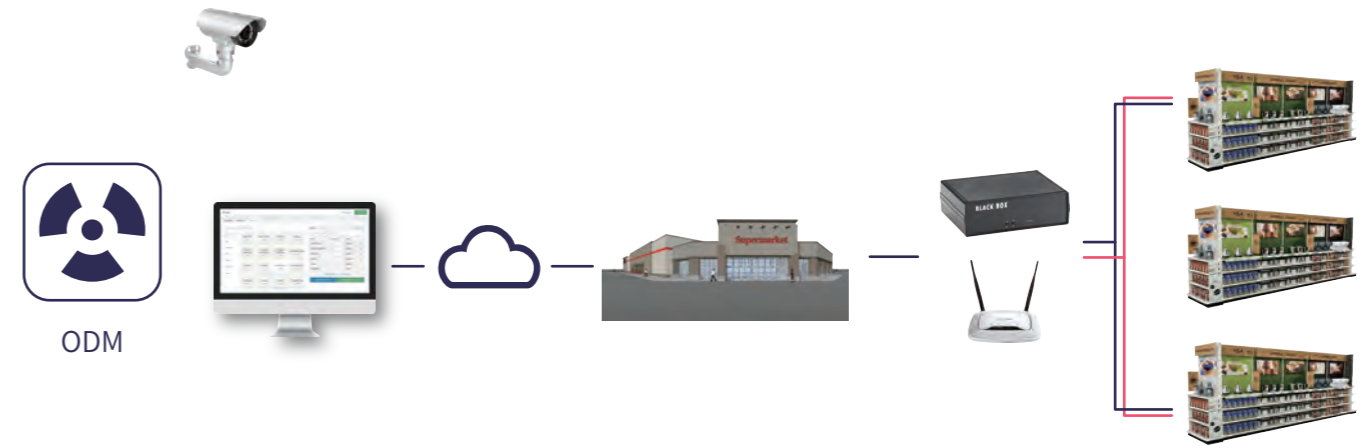| Control box with signal delivery and PSU	Signal and power cables	Tools	Manuals	Qualified Certification

Broadcasting

In order to enhance the interaction and live broadcast effects of the LED display in the broadcasting and broadcasting field, the radio and television studio has extremely high requirements for the display effect, stability and safety .

As the background screen of the studio, COB supports dual backup of signals, featuring high refresh rate and high contrast.

Applications: TV stations, studios, stage backgrounds.

Conference Center

The modern conference center provides great convenience for the instant communication and efficient operation of schools, governments and enterprises.

COB, replacing traditional projectors, curtains and other equipment, adapts to various brightness environments and is suitable for visual comfort and viewing at various angles ,with the advantages of low brightness, high grey level, uniform color, etc.

Application: government agencies, enterprises, schools, military, etc.

Monitoring Center

The monitoring center is an integrated management platform that integrates information display, monitoring, command, scheduling and other functions.

The COB can display accurately small window high definition pictures or high definition maps, and it is more convenient to monitor the operation and management of the monitoring center with its advantages of seamless splicing, wide-screen display, and human eye safety,etc.

Application: troops, fire, prison, transportation, education, aviation, etc.

Supertmarket

Supermarket self- service stores mini-stores

Excellent presentation of specific goods

Airport,station

Flight information route guidance advertisement display

pre-set list, different display contents in different periods

list management

Chain Brand

Luxury chain brand names

One-to-all remote cluster control, real-time updated video source for different shops or boutiques in different locations,turn-key solution for an easy and convenient central control and management

Casino

Dustproof and anticollision; Daisy-chain connection with extended or stand-alone display

Tailor-made Solution