Our Vision
To be the most competitive international supplier
of display system solutions and LED application products.

Wintronics
concentrating on L.E.D. technology

Mesh Outdoor
Full Color Display

Single Line Display

Indoor Full Color Display

Rental Display

Multiline Display

Bus Display

Bicycle Wheel Light

LORONG KANAN
DI HADAPAN
BB PLAZA
DITUTUP

VMS Display

Elinker

Chinese
Food

FoodLoft
@ZEN Level 7

Level 07

Outdoor Full
Color Display

Multiline Display

AdRunner Taxi Display

PLEASE PURCHASE
TAXI COUPON
BEFORE LEAVING THE
ARRIVAL HALL

MILLENNIUM

LED Keyboard Display

LED Gas Pricer

Diesel 柴油   12.59

FuelS...
怡油配方...

Shell
V-Power

Infinite Possibilities.
One Solution.

AT A GLANCE

- Advanced Information Technology
- Experience As Key to Success
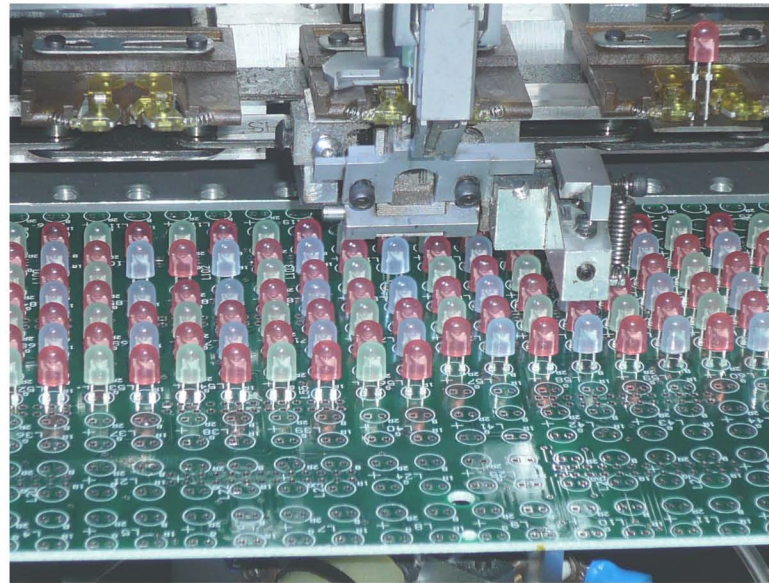- LED Professional
- Focused Vision And Strategies
- Worldwide Installations Reference
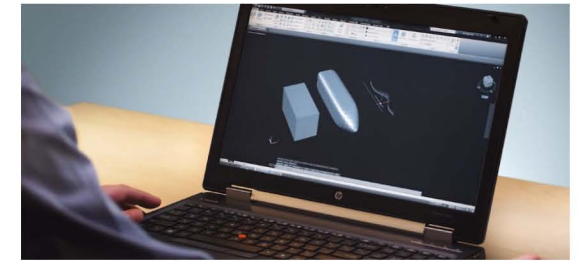- Customer Oriented Service
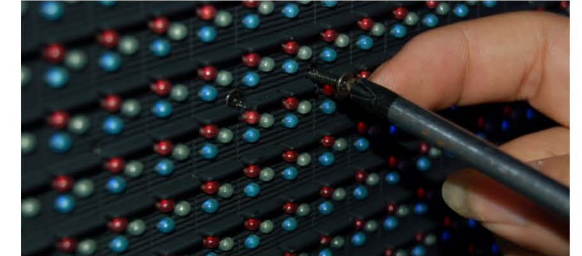- ISO Certificated Quality

Advantage

Full Automatic Production Line

Strong Engineering Team

Excellent Quality Control

24-Hours Technical Support

Company Profile

Winner Electronics Limited is a Shenzhen high-tech enterprise, which specializes in all kinds of LED displays and LED lighting products, including research & development, design, production, sales and after-sales service.

Our production base covers an area of 15,000m2. Our factory is equipped with full-automatic machines, automatic welding lines, reflow soldering machine, wave soldering machine, automatic glue-filling machines, LED module high-temperature aging area, waterproof test pool, automatic packaging lines, and automatic-aging production lines and so on. Our monthly production capacity exceeds 3,500m2. Our market covers more than 50 countries and regions.

We strive to put our customers need first and promote quality in every LED product that Winner builds. Stressing high quality, Winner uses high quality extruded aluminum, heat resistant sun shades, best quality power supply, and other top-quality parts to build a truly high quality LED product.

We strictly comply with the requirements of 7S, ISO9001-2008 and ISO14000 system!
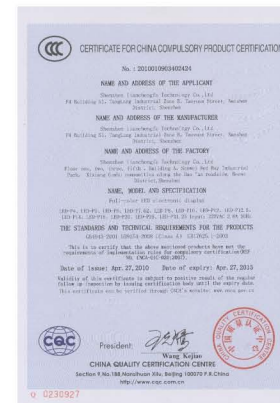
Certificate

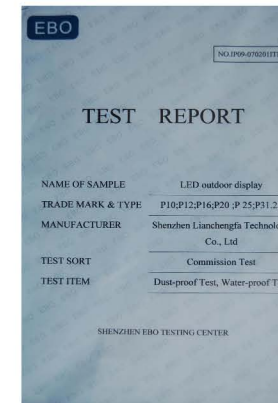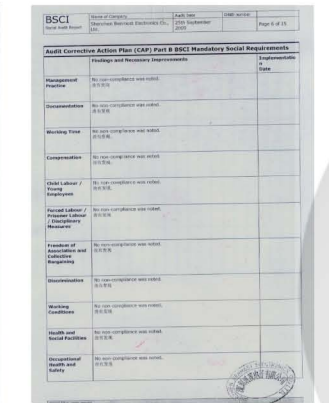IS0 9001-2008

Patent Certificate

ROHS

EUP

CCC

CE

IP65

BSCI

BLUETOOTH DISPLAY
MONO / TRI- / FULL COLOR

This bluetooth display series each containing high brightness SMD LEDs and Bluetooth for wireless display of text, graphics and animatios from any Bluetooth Classic or Low Energy device, no cable to connect & no remote control are required.

With free APPs, advertising your business with changing special, promotions, messages, your logo your business slogan contact information pricing and many more uses to advertise your business and attract more customers, becoming more easier way than ever before.

- Wireless
- Auto Dimmer
- Free APPs
- Slim & Light
- Easy To Use
- Quick Installation

Software Installation & Operation

Search For Bluetooth Device

LED Bluetooth Display

Software Installation

Apps Store

Search
miniled

loading data scanning device
last updated: 03-28 13:14

Wireless programming

Smart Phone

Install   Mini LED

Text Entry

Communication

Keypad   Bluetooth   Wireless   USB   Free APPS

LED BLUETOOTH DISPLAY
MONO / TRI- / FULL COLOR
LED Display Solution

NEW arrival

Key Features

- Wireless connection with bluetooth technology
- 8 font styles in Song, Tranl, Japan, Fsong, Kaiti & Yyuan
- Memory storage upto 8 messages, totally 640 characters
- 8 display speeds and 8 display transition methods
- Support multiple units connection
- Low working votages, ranging from 5-12VDC
- Quality durable frame
- Slim design and light weight
- High bright with illumination adjustment for semi-outdoor use
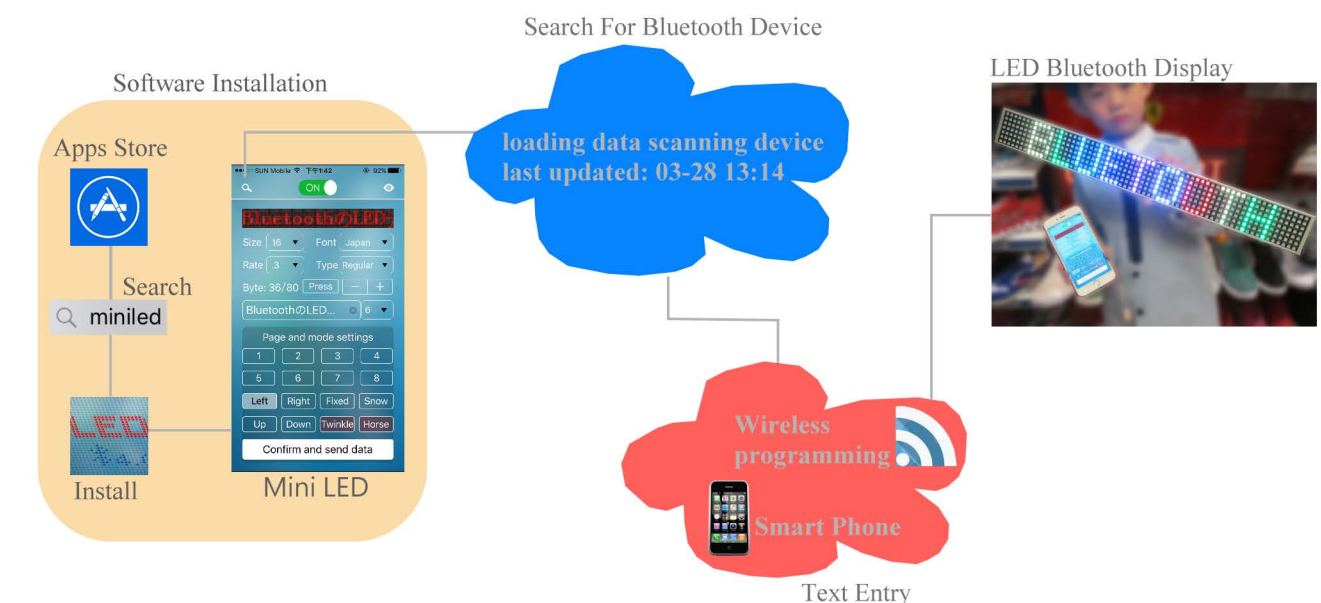- Easy to install hardware

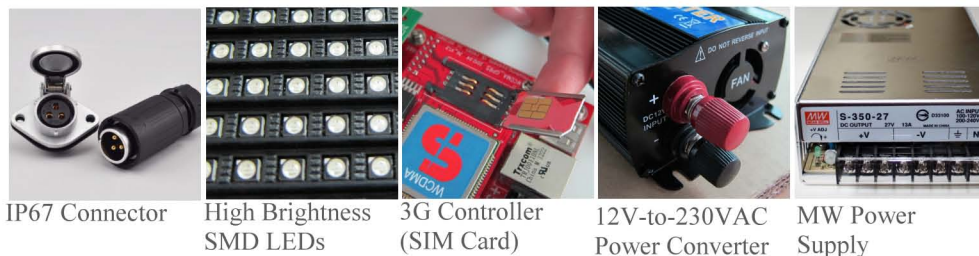Slim Design & Light in Weight

Specification

Item	Number of Lines	Character Size	Character Per Line	Color	Display Matrix	Case Dimension	Application
B300N-7X40S	1	1"	7	1-color	7H x 40W	50H x 230W /mm	Indoors
B875N-7X64RGB	1	2"	10	RGB-color	7H x 64W	70H x 575W /mm	Semi-outdoors
B762N-7X80S	1	2"	13	1-color	7H x 80W	98H x 660W /mm	Semi-outdoors
B762N-7X80RGB	1	2"	13	RGB-color	7H x 80W	98H x 660W /mm	Semi-outdoors
B500N-12X72S	1	3"	12	1-color	12H x 72W	90H x 360W /mm	Semi-outdoors
B500N-12X72RG	1	3"	12	Tri-color	12H x 72W	90H x 360W /mm	Semi-outdoors
B500N-12X72RGB	1	3"	12	RGB-color	12H x 72W	90H x 360W /mm	Semi-outdoors
B762N-16X80S	1	4"	13	1-color	16H x 80W	160H x 650W /mm	Semi-outdoors
B762N-16X80RG	1	4"	13	Tri-color	16H x 80W	160H x 650W /mm	Semi-outdoors
B762N-16X80RGB	1	4"	13	RGB-color	16H x 80W	160H x 650W /mm	Semi-outdoors

We reserve the right to change technical specifications without prior notice

Ad|Runner LED Taxi Top Display
OUTDOOR FULL COLOR

Ad|Runner is changing the landscape of outdoor advertising. Now advertiser can deliver real time dynamic campaigns that reach their target customers where they live, work and play.

Utilizing 3G technology, advertisers can target audiences in an entire city, neighborhood, or on a single city block and change their message by the second, on hundreds of mobile electronic billboards mounted on taxis.

- Ultrahigh Brightness
- 120° Wide Viewing Angle
- Remote Control & Scheduling
- Uniform Color
- Flicker-Free
- User-Friendly Software

global positioning system

Communication

advertiser → computer system: campaign manager → cellular network → ad|runner® display unit

Specification

Item	Ad|Runner Taxi Top Display
Pixel Configuration	SMD 3-in-1 LEDs
Physical Pitch	6mm
Cabinet Physical Reso.(WxH)	160 x 64 /dots, x 2 sides
Cabinet Dimension (WxH)	960 x 288 /mm, x 2 sides
Protection Level	IP65, Fully Outdoors
Weight per Cabinet	27kgs
Physical Density	40,000 pixels /m2
Brightness before Calibration	> 3,800 Nits
Brightness after Calibration	> 3,500 Nits
Color Temperature	3200K - 9300K, adjustable
Horizontal Viewing Angle	160°
Vertical Viewing Angle	160°
Max. Power Consumption	700W
Avg. Power Consumption	350W
Power Supply	12VDC - 36VDC
Flash Memory	500M, extendable
Support Format	JPG, BMP, PNG, AVI, WMI, MPG, MOV..
Communication Interface	3G Wireless via Internet
Grayscale Level	14-bit
Driving Mode	1/4
Frame Rate	>60Hz
Refresh Rate	>1140Hz
Lifetime (half brightness)	100,000 hours
Lifetime (full white)	50,000 hours
Operating Temperature	-20°C - 50°C
Operating Humidity	10 - 90%RH

We reserve the right to change technical specifications without prior notice

Advantage

| IP67 Connector | High Brightness SMD LEDs | 3G Controller (SIM Card) | 12V-to-230VAC Power Converter | MW Power Supply |

Ad|Runner
OUTDOOR FULL COLOR
LED Display Solution

NEWarrival

Key Features

- Deliver real time dynamic messages
- Aluminum housing to minimize weight while ensuring a solid construction
- Optimal intensity and legibility in the daytime and night (3,800 Nits)
- Wide Viewing Angle, 160 horizontal degree
- Controlled by 3G internet or SD card storage
- Multiple taxi displays' connection to center server automatically
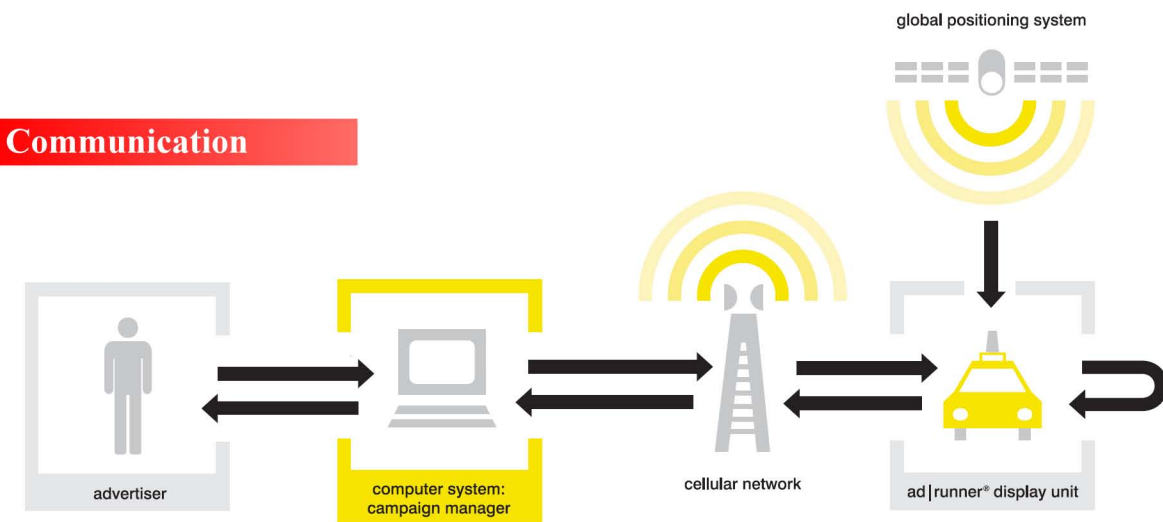- Low power consumption but coming with over 100% brighter advertisement

Ad|Runner in Turkey

VMS Variable Message Sign
OUTDOOR MONO COLOR

Variable Message Sign (VMS) is a unique and innovative method of enhancing effective and useful light, developed by Sirius HK Limited. By applying a patented process to a high-intensity LEDs for traffic information to improve road safety where it wasn't possible before.

Its output is more consistent than cluster LEDs, not subject to degradation, easier to maintain, significantly reliable and cheaper to run.

3G Technology

Relay Protection

Ultra Brightness

IP65 Waterproof

Extra Fuse Protection

Rechargeable Battery

Communication

VMS Control HQ

VMS Server

Admin Workstation

Ethernet Switch

Internet

GSM Network

Remote Sites, VMS

220VAC or 12VDC Battery

VMS
OUTDOOR MONO COLOR
LED Display Solution

NEWarrival

Key Features

- Extruded aluminum cabinet
- Full matrix display - available in a number of different sizes
- Ultra-bright LEDs of long work life
- Character size, configuration and mounting options
- Fully programmable - can display an infinite number of traffic symbols and text displays
- Cost effective, lighter in weight and easy maintenance
- Running for 24 hours after fully charged
- Fix and mobile applications
- Wireless programmable via built in SIM card
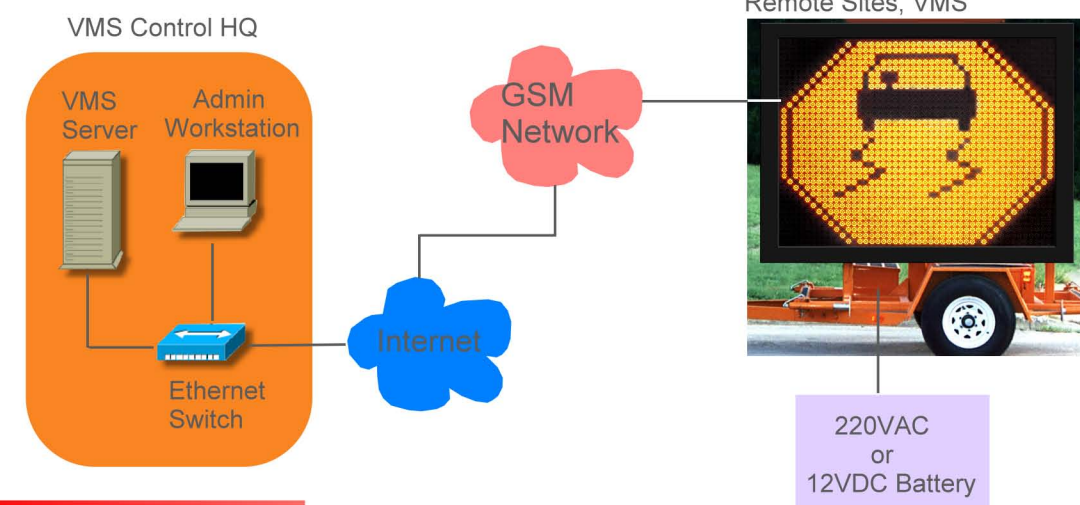- IP65 protection level

Movable LED VMS Trailer

Specification

Item	VMS1600W-48X96A
Pixel Configuration	Oval LEDs, x2pcs
Physical Pitch	5mm
Cabinet Physical Reso.(WxH)	96 x 48 /dots
Cabinet Dimension (WxH)	1636 x 868 /mm
Protection Level	IP65, Fully Outdoors
Weight per Cabinet	60 kgs
Physical Density	3906 pixels /m2
Brightness before Calibration	> 9,000 Nits
Brightness after Calibration	> 8,500 Nits
Color Temperature	3200K - 9300K, adjustable
Horizontal Viewing Angle	120°
Vertical Viewing Angle	120°
Max. Power Consumption	450W
Avg. Power Consumption	250W
Power Supply	12VDC - 36VDC
Flash Memory	500M, extendable
Support Format	JPG, BMP, PNG, AVI, WMI, MPG, MOV..
Communication Interface	GSM Network
Grayscale Level	14-bit
Driving Mode	Static
Frame Rate	>60Hz
Refresh Rate	>1140Hz
Lifetime (half brightness)	100,000 hours
Lifetime (full white)	50,000 hours
Operating Temperature	-20°C - 50°C
Operating Humidity	10 - 90%RH

We reserve the right to change technical specifications without prior notice

LDD LED Destination Display
WINDOW HIGH BRITE

The LED Destination Display has an unparalleled visual impact. Through high definition characters, 120 degree horizontal visibility, and automatic brightness control, the displays are easily visible day and night and in many weather conditions.

They are built to be both lightweight and inexpensive to maintain due to the elimination of moving parts and the long life of LED.

- User Friendly Software
- SD Storage
- Ultrahigh Brightness
- 1,000 Messages
- Wide Viewing Angle
- Integrated Control Unit

Mechanical Diagram

2x M6   2x M6

190mm   LCD Control Unit
           1000 mm

LDD
WINDOW HIGH BRITE
LED Display Solution
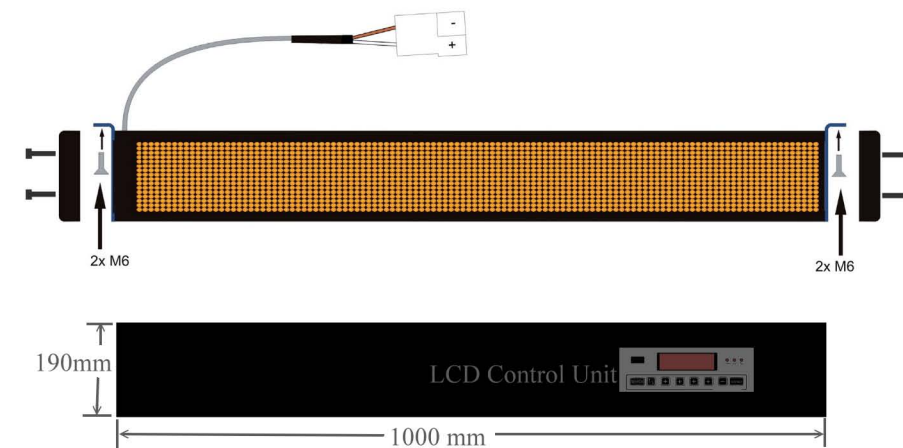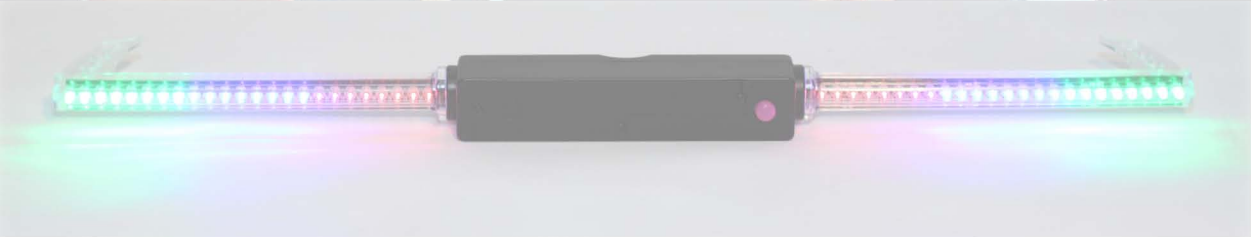
NEWarrival

Key Features

- Compact & robust design
- Aluminum housing to minimize weight while ensuring a solid construction
- Flat design reduces the external dimensions to a minimum
- UV protection
- Viewing angle of approximately 110 degree to optimise and legibility
- Capable of multi line display and graphics import
- Reduce life cycle cost
- Maintenance free

Specification

Item	LDD-1000W-16x96A
Voltage	12VDC - 36VDC
Current Consumption	12V @4A or 24V@2A
LED's	5mm Amber
Resolution	16H x 96L /dots
Overall Dimension	190H x 1000L x 50D /mm
Weight	6 kgs
Brightness	> 3500 CD/m2
Viewing Angle	110°
Text Transfer	SD, Memory Card
Transfer Speed	Varies with number of destinations, e.g: 1,000 destinations in appro. 15 seconds
Keypad Programming	For Emergency Message Only
Fonts	Dot Big Bold, Dot Itaiic, Dot Small Bold, Dot Small ...upto 25 fonts
Graphic / Logo	Edit by PC user friendly software
Memory	Flashrom, 1,000 messsages
Display	Graphic LCD, routes' selection
Ambient Environment	-20 to 70° C
Humidity	< 93% RH at +40° C
Vibration, Shock	EN 50155:1995, EN661373

We reserve the right to change technical specifications without prior notice

BWL Bicycle Wheel Light
CUSTOM PROGRAMMABLE

The Bicycle Wheel Light (BWL) has 2 bars of LEDs which are attached together inside your wheel. As your ride the system rotates, using our user friendly software to create an image with its 48 color LEDs.

The BWL has sensor to track its speed, heads-up position and rotation direction. It allows the system to create stable, full-wheel images from 15 to 65 km/h.

Ultrahigh Brightness

Network Remote

Low Power Consumption

Auto Dimming

Maintenance Free Low Cost

Weatherproof

Installation

Install in the middle of groove on the bicycle axle

Fixed to two head, pressure a bit and make it more strong

Plug in AAA batteries, x 3pcs

Specification

Item	BWL-22RGB
Processor	Embedded ARM Processor
Sensor	Position Sensor
No. of LEDs	48 pcs
Display Range	Both sides
Speed Requirement	Full Screen Display @15km/h
Color Pattern	Red, Green & Blue, 48 colors
Communication Interface	USB
Text & Graphics	Supported
Voltage	3.0 V- 5.0V
Current	35mA
Rotating Speed	Automatically Controlled By Built-in Position Sensor
IP Standard	IP55, Outdoors
Applicable	AAA, x3pcs
Type of Wheel	22-inch or above
Windows	Microsoft Windows XP & Windows 7
Weight	150 grams
Overall Dimension (LxHxD)	442x58x27 /mm
Smart Switch	LEDs On / Off Automatically
Manual Switch	To Save More Power

We reserve the right to change technical specifications without prior notice

BWL
CUSTOM PROGRAMMABLE
LED Display Solution

NEWarrival

Key Features

- 48 LEDs & 48 patterns colorful double-side display
- Display your own graphics from USB interface
- Running at speed of 5km/h, and full screen displaying at 15km/h
- Waterproof & shockproof
- Built-in high speed CPU and level-off sensor, intelligent control
- Simple installation and removal
- AAA batteries x 3pcs, working for 20 - 30 hours
- Fully outdoors with IP55 international housing standard
- For 22-inch wheels or above
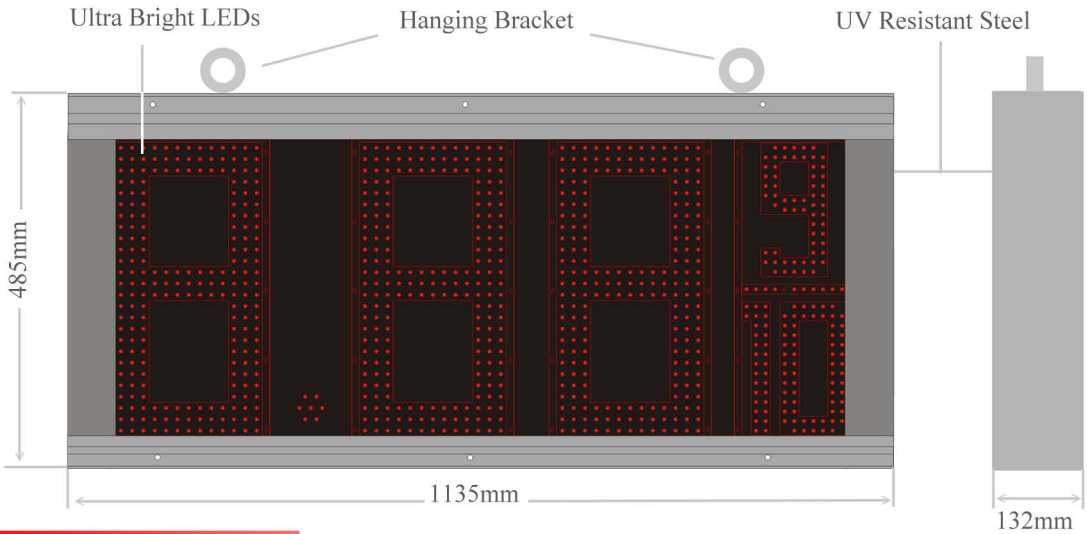
L.E.D. Gas Pricer
OUTDOOR MONO COLOR

In today's ever shifting economy where gasoline prices seem to fluctuate more often than the temperature outside, having a dependable, easy-to-change LED price display has become the ideal advertising solution for many areas of business. We offer you a reasonable & LED affordable digit solution at the right time.

Extremely visible from far distances, our gas price display also features an improved controller design, making it easier for employees inconvenience store to change the sign's price.

- Ultrahigh Brightness
- Network Remote
- Low Power Consumption
- Auto Dimming
- Maintenance Free Low Cost
- Weatherproof

Mechanical Diagram

Ultra Bright LEDs   Hanging Bracket   UV Resistant Steel

485mm

1135mm

132mm

Communication

Remote Keypad Programming

PC RS422 Programming

L.E.D. Gas Pricer
OUTDOOR MONO COLOR
LED Display Solution

NEW arrival

Key Features

- Display format available in 8.888, 888.8, 8.88⁹ & 888⁹⁄₁₀
- Light-weight, high-tech, durable extruded aluminum case
- Low power consumption
- Uncompromised day light visibility, 3000 Nit brightness rating
- Ultra wide 140 degree viewing angle
- Front-serviceable
- LEDs rated at 100,000 hours
- Auto-night dimming (optional)
- Plug & Play one step installation
- IP65 international housing standard
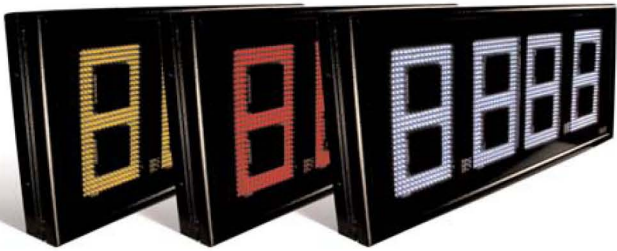
LED Gas Pricers in Red, Amber, Blue & White

Specification

Item	L.E.D. Gas Pricer
Color	Red, Amber, Green, Blue or White
Digit Height	4", 6", 8", 10", 12", 16", 24", 36", 40", 48", 60", 72"
Digit Design	Standard Digit: 4", 6", 8", 12", 16"
	24" and above are multi-strode seven segment digits
Brightness Control	Auto dimming by sensor
Display Dimming	4 levels of brightness adjusment, automatically
Viewing Angle	140 horizontal degree
Service Access	Front or rear access
Master / Slave	Single / Double side, mater / slaves available
Housing Material	Extruded aluminum
IP Standard	IP65 Front & IP54 Rear
Drive Mode	Static constant current
Power Input	110 / 220 VAC, 60 / 50Hz
PC Communication	RS232 / RS422
	LAN, GSM Modem, RF Modem, SMS (optional)
Communication Distance	Max. 15 meters for RS232 & 1200 meters for RS422
Remote Control	RF remote control
Continuous Working Time	Unlimited
Lifetime of LEDs	>100,000 hours
Installation Method	Hanging & mounting
Working Temperature	-20℃ - +60℃

We reserve the right to change technical specifications without prior notice

SINGLE LINE DISPLAY
MONO / TRI- / FULL COLOR

This single line series is designed for light industrial, commercial and office use. They quickly display large amounts of information in 8 colors and 3 rainbow effects. Messages are entered through a wireless remote control keyboard or PC windows.

In applications requiring multiple units to communicate important information, the displays can be networked and connected to a PC, to form a powerful integrated visual information system throughout your planet or business facility.

- Borderless
- Modular Design
- Fast Delivery
- Easy To Use Software
- Easy Maintenance

Models available from Indoors to Semioutdoors

QUICK PROMOTIONAL IMPACT

M500N Series
2" - 12, 16, 24, 36 Characters

APPLICATION READY TECHNOLOGY

M800N Series
3" - 12, 16, 24 Characters

DOUBLE LINE AVAILABLE

WIRELESS MESSAGING

M1000W Series
4" - 10, 12, 16 Characters

Communication

| Keypad | RS232/422 | SD Card | 3G Modem | USB Disk | LAN |

LED SINGLE LINE DISPLAY
MONO / TRI- / FULL COLOR
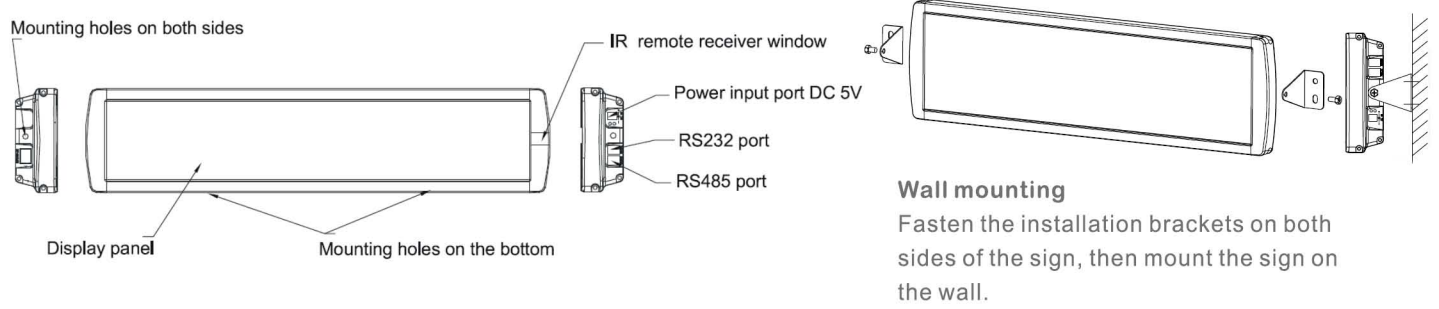### LED Display Solution

Key Features

- 2-inch characters popularly used for indoors
- 10 sets of high bright color & rainbow effects
- Memory storage upto 100 messages, totally 7,000 characters
- IR remote keyboard & PC programming
- Capable of counting down
- 8 display speeds and 24 display transition methods
- 8 built in animations and 7 font styles
- Create custom logo and graphic
- Password protection
- Networkable via RS232, RS422 or optional Ethernet adaptor

Full Color Single Line **(NEW)**

Mechanical Diagram & Installation

Mounting holes on both sides

IR remote receiver window

Power input port DC 5V

RS232 port

RS485 port

Display panel

Mounting holes on the bottom

Wall mounting
Fasten the installation brackets on both sides of the sign, then mount the sign on the wall.

Specification

Item	Number of Lines	Character Size	Character Per Line	Color	Display Matrix	Case Dimension	Application
M500N-7X80RG	1	2"	12	Tri-color	7H x 80W	98H x 660W /mm	Indoors
M500N-7X120RG	1	2"	16	Tri-color	7H x 120W	98H x 965W /mm	Indoors
M500N-7X160RG	1	2"	24	Tri-color	7H x 160W	98H x 1270W /mm	Indoors
M500N-7X240RG	1	2"	36	Tri-color	7H x 240W	98H x 1880W /mm	Indoors
M800N-7X80RG	1	3"	12	Tri-color	7H x 80W	160H x 950W /mm	Indoors
M800N-7X120RG	1	3"	16	Tri-color	7H x 120W	160H x 1350W /mm	Indoors
M800N-7X160RG	1	3"	24	Tri-color	7H x 160W	160H x 1750W /mm	Indoors
M1500W-7X60RG	1	4"	10	Tri-color	7H x 60W	160H x 942W /mm	Semi-outdoors
M1500W-7X80RG	1	4"	12	Tri-color	7H x 80W	160H x 1250W /mm	Semi-outdoors
M1500W-7X120RG	1	4"	16	Tri-color	7H x 120W	160H x 1866W /mm	Semi-outdoors
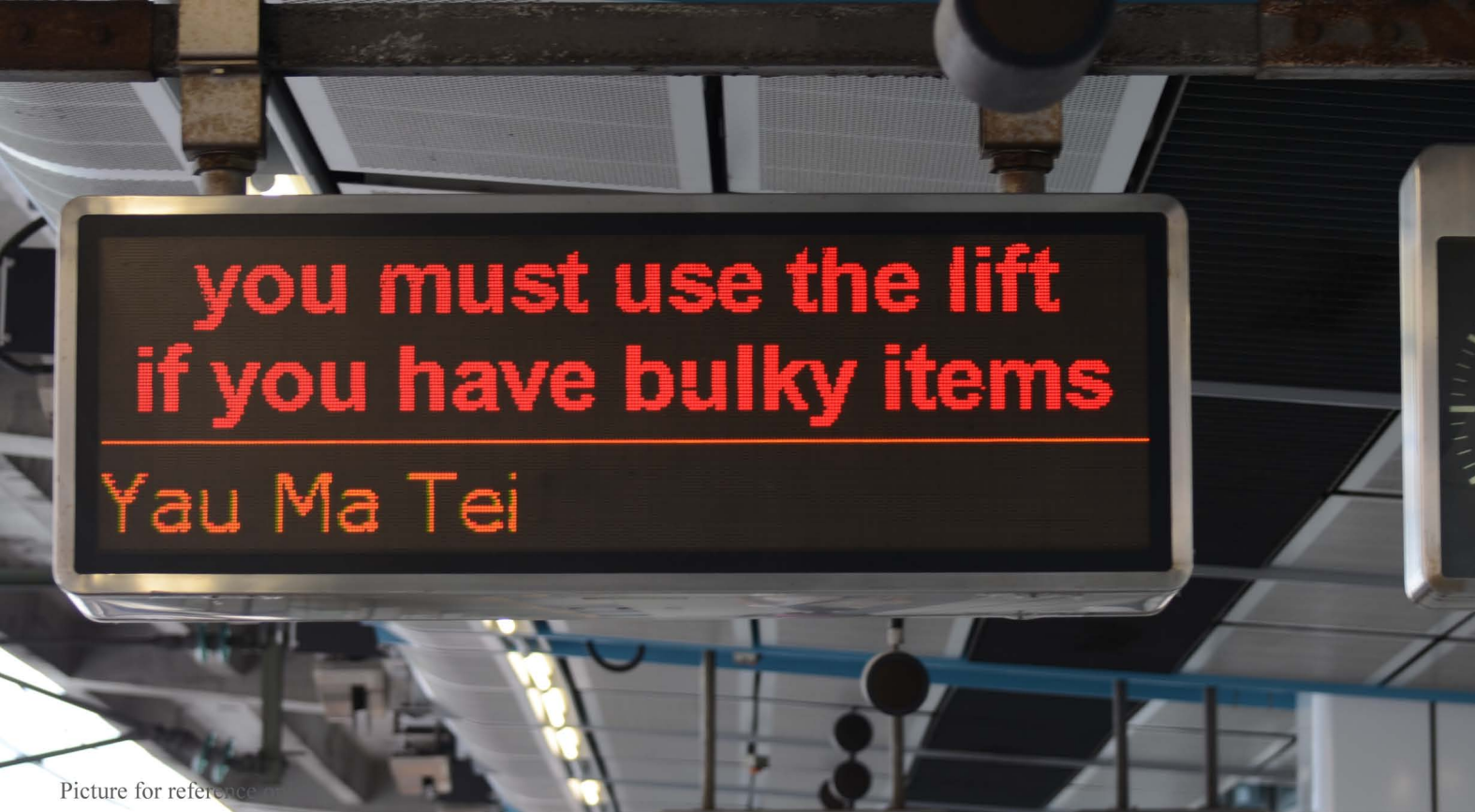
We reserve the right to change technical specifications without prior notice
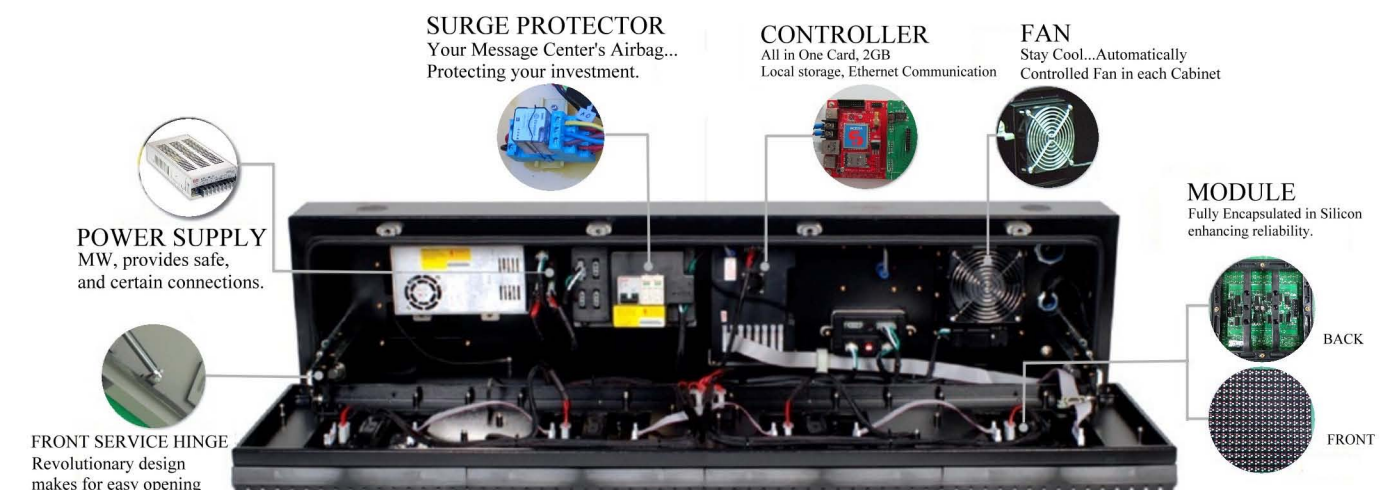
MULTI LINE DISPLAY
MONO / TRI- / FULL COLOR

The LED Multiline Display series saves time by allowing you to immediately and easily change the information posted - including industrial production statistics and alarms, movie theatre, showings and ads, as well as transportation schedules.

Choose from our various communication options to best fit your application: 3G modem, RF wireless, LAN network, USB external disk or direct wired connection by RS232/RS422. Our user-friendly software is capable of displaying messages with various fonts, sizes, graphics, animiation & video. It is a powerful yet ease-of-use tool for you to edit, update, schedule and display the messages.

Borderless

Modular Design

Fast Delivery

Easy To Use Software

Easy Maintenance

Picture for reference on

Communication

Keypad   RS232/422   SD Card   3G Modem   USB Disk   LAN

Mechanical Diagram

SURGE PROTECTOR
Your Message Center's Airbag... Protecting your investment.

CONTROLLER
All in One Card, 2GB
Local storage, Ethernet Communication

FAN
Stay Cool...Automatically Controlled Fan in each Cabinet

POWER SUPPLY
MW, provides safe, and certain connections.

MODULE
Fully Encapsulated in Silicon enhancing reliability.

BACK

FRONT

FRONT SERVICE HINGE
Revolutionary design makes for easy opening

MULTI LINE DISPLAY
MONO / TRI- / FULL COLOR
LED Display Solution

Key Features

- Wide range of display function
- High reliable and energy efficient
- Available for indoor and outdoor use
- Facilitates ambient light control (brightness control)
- High contrast, highly visible method of communication
- Free standing, wall mounted or suspended - giving you flexibility in installation
- Quick and easy to program using our windows based software
- Programmable by remote keypad & user friendly PC software
- Available in a wide range of LED colors, sizes & brightness levels
- Networkable via RS232, RS422 or optional Ethernet adaptor

Singapore Airport

Specification

Item	Number of Lines	Character Size	Character Per Line	Color	Display Matrix	Case Dimension	Application
M500N-16X128RG	2	62mm	16	Tri-color	16H x 128W	160H x 1005W /mm	Indoors
M500N-32X128RG	4	62mm	16	Tri-color	32H x 128W	320H x 1005W /mm	Indoors
M500W-32X128RG	4	62mm	16	Tri-color	32H x 128W	320H x 1005W /mm	Semi-outdoors
M1000W-16X96RG	2	80mm	12	Tri-color	16H x 96W	220H x 1020W /mm	Semi-outdoors
M1000W-32X96RG	4	80mm	12	Tri-color	32H x 96W	380H x 1020W /mm	Semi-outdoors
M1600W-16X128RG	2	128mm	16	Tri-color	16H x 128W	256H x 2048W /mm	Outdoors
M1600W-16X160RG	2	128mm	20	Tri-color	16H x 160W	256H x 2560W /mm	Outdoors
M1600W-32X128RG	4	128mm	16	Tri-color	32H x 128W	512H x 2048W /mm	Outdoors
M2000W-16X128RG	2	160mm	16	Tri-color	16H x 128W	320H x 2560W /mm	Outdoors
M2000W-32X128RG	4	160mm	16	Tri-color	32H x 128W	640H x 2560W /mm	Outdoors

We reserve the right to change technical specifications without prior notice

IF Indoor & Fix Installation
INDOOR FULL COLOR

- **20+ Display Functions**
- **Communication/ Remote Control**
- **Ultrahigh Brightness**
- **Uniform Color**
- **Low Power Consumption**
- **Maintenance Free Lower Cost**
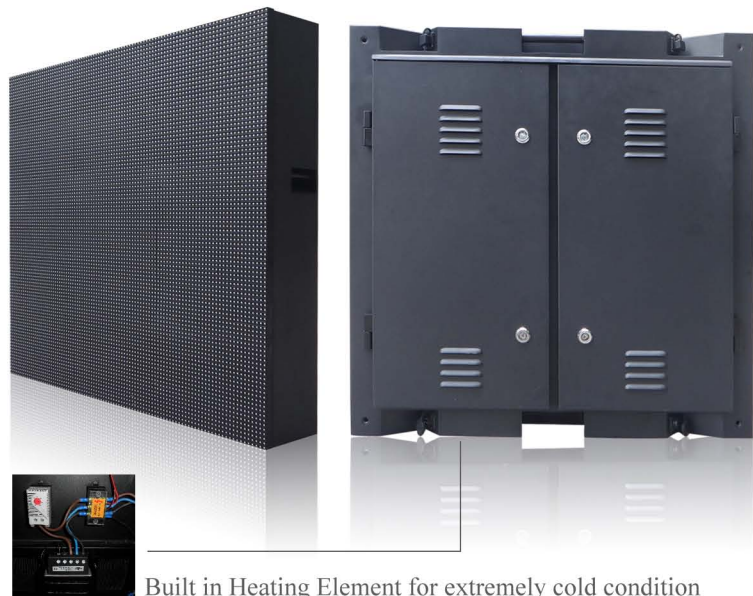- **Auto Dimmer**

Direct Plug In/Out

Quick Lock

IF
INDOOR FULL COLOR
LED Display Solution

Key Features

- From physical pixel pitch of 4mm to 10mm
- Vivid colors and sharp images
- Refresh rate >960 Hz, good for broadcast & live show
- Super wide viewing angle to maximize audience coverage
- Dual directional signal feed and auto inspection of transmitting direction
- IP42 protection

Specification

Item	IF4	IF5	IF6	IF7.62	IF10
Pixel Configuration			SMD 3-in-1		
Physical Pitch	4mm	5mm	6mm	7.62mm	10mm
Virtual Pitch			Nil		
Module Dimension (WxH)	128x128 mm	160x160 mm	192x96 mm	244x122 mm	320x160 mm
Cabinet Physical Reso.(WxH)	128x128 dots	128x128 dots	128x128 dots	128x128 dots	128x128 dots
Cabinet Dimension (WxHxD)	512x512x120 mm	640x640x140 mm	768x768x140 mm	976x976x140 mm	1280x960x140 mm
Cabinet Surface Area	0.262 m2	0.41 m2	0.59 m2	0.953 m2	0.59 m2
Protection Level			IP42		
Weight per Cabinet	14 kgs	19 kgs	25 kgs	38 kgs	45 kgs
Physical Density	62500 pixels/m2	40000 pixels/m2	27777 pixels/m2	17222 pixels/m2	10000 pixels/m2
Brightness before Calibration	>1500 Nits	>1800 Nits	>2000 Nits	>1500 Nits	>1000 Nits
Brightness after Calibration	>1200 Nits	>1500 Nits	>1700 Nits	>1200 Nits	>900 Nits
Color Temperature			3200K - 9300K adjustable		
Horizontal Viewing Angle			160°		
Vertical Viewing Angle			160°		
Brightness Uniformity			<3%		
Color Uniformity			>97%		
Contrast Ratio			5000:1		
Max. Power Consumption	Max. 1000W/m2	Max. 700W/m2	Max. 800W/m2	Max. 600W/m2	Max. 350W/m2
Avg. Power Consumption	Avg. 500W/m2	Avg. 350W/m2	Avg. 400W/m2	Avg. 300W/m2	Avg. 180W/m2
Power Supply			AC85 - 264V		
Signal Processing			16-bit		
Grayscale Level			10-bit		
Colors			280 trillion colors		
Driving Mode	1/16	1/16	1/8	1/8	1/8
Frame Rate			50Hz - 60Hz		
Refresh Rate			>960Hz		
Lifetime (half brightness)			100,000 hours		
Lifetime (full white)			50,000 hours		
Operating Temperature			0 - 40°C		
Operating Humidity			10 - 80%		

We reserve the right to change technical specifications without prior notice

HF Outdoor & Fix Installation
OUTDOOR FULL COLOR

- Ultrahigh Brightness
- 120° Wide Viewing Angle
- Remote Control & Scheduling
- Uniform Color
- Flicker-Free
- User-Friendly Software

Built in Heating Element for extremely cold condition

HF
OUTDOOR FULL COLOR
LED Display Solution

Key Features

- From physical pixel pitch of 10mm to 31.25mm or virtual pitch from 5 to 15.6mm
- Unique intelligent design records the brightness and chrominance of each LED lamp, thus ensuring the uniformity and consistency of the overall display image
- Dual directional signal feed and auto inspection of transmitting direction
- Adjustable constant current source without compromising on the grayscale, resulting in optimal pictures under any kinds of brightness environment
- 16-bit color processing and super high refresh rate over 3,840Hz provide stunning flicker-free broadcast video images
- IP 65 front and IP43 rear protection

Specification

Item	HF10	HF16	HF20	HF25	HF31.25
Pixel Configuration	1R1G1B	2R1G1B	2R1G1B	2R1G1B	2R1G1B
Physical Pitch	10mm	16mm	20mm	25mm	31.25
Virtual Pitch	Nil	8mm	10mm	12.5mm	Nil
Module Dimension (WxH)	160x160 mm	256x128 mm	320x160 mm	200x200 mm	250x250 mm
Cabinet Physical Reso.(WxH)	96x96 dots	64x48 dots	64x48 dots	48x40 dots	32x32 dots
Cabinet Dimension (WxHxD)	960x960x180 mm	1024x768x180 mm	1280x960x180 mm	1200x1000x180 mm	1000x1000x180 mm
Cabinet Surface Area	0.922 m2	0.786 m2	1.229 m2	0.953 m2	1 m2
Protection Level	IP65				
Weight per Cabinet	50 kgs	55 kgs	60 kgs	65 kgs	50 kgs
Physical Density	10000 pixels/m2	3906 pixels/m2	2500 pixels/m2	1600 pixels/m2	1024 pixels/m2
Brightness before Calibration	>5500 Nits	>7000 Nits	>6000 Nits	>4500 Nits	>3500 Nits
Brightness after Calibration	>5000 Nits	>6500 Nits	>5500 Nits	>4200 Nits	>3200 Nits
Color Temperature	3200K - 9300K adjustable				
Horizontal Viewing Angle	120°				
Vertical Viewing Angle	60°				
Brightness Uniformity	<3%				
Color Uniformity	>97%				
Contrast Ratio	5000:1				
Max. Power Consumption	Max. 750W/m2	Max. 950W/m2	Max. 800W/m2	Max. 500W/m2	Max. 300W/m2
Avg. Power Consumption	Avg. 400W/m2	Avg. 480W/m2	Avg. 400W/m2	Avg. 250W/m2	Avg. 150W/m2
Power Supply	AC85 - 264V				
Signal Processing	16-bit				
Grayscale Level	10-bit				
Colors	280 trillion colors				
Driving Mode	1/4	Static	Static	Static	Static
Frame Rate	50Hz - 60Hz				
Refresh Rate	>960Hz				
Lifetime (half brightness)	100,000 hours				
Lifetime (full white)	50,000 hours				
Operating Temperature	-20°C - 40°C				
Operating Humidity	10 - 80%				

We reserve the right to change technical specifications without prior notice

MF Mesh & Fix Installation
OUTDOOR FULL COLOR

The MF series inherited thin and see-through from features of traditional curtain. Based on mater-piece structure, advanced electronic & electrical circuit design was adopted to built a luminosity of 5,000 - 8,000 nits.
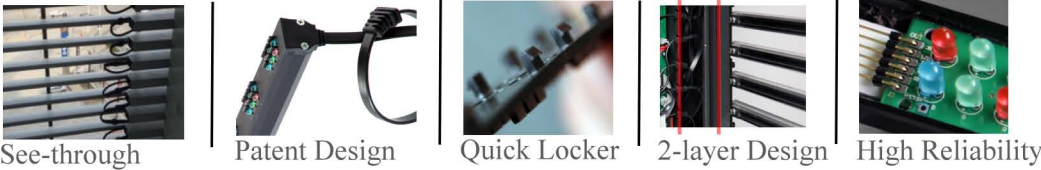
See-through makes it low-windage and IP68 ingress protection makes it stand well in adverse weather condition.
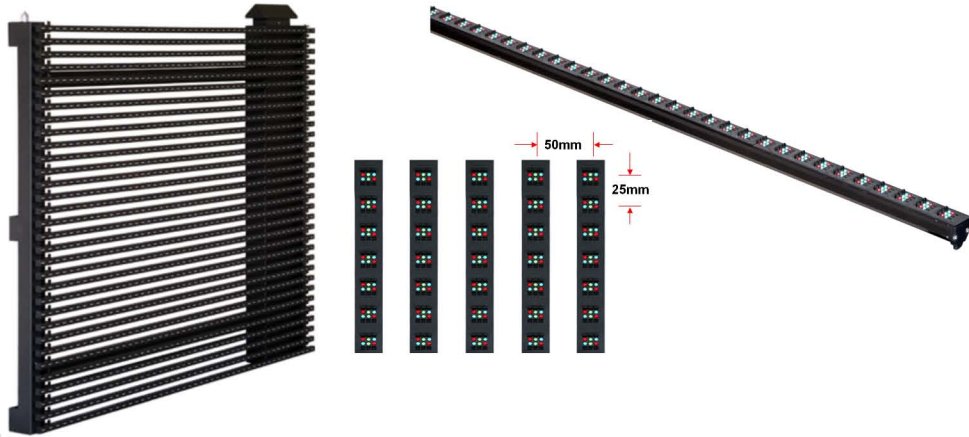
Ultrahigh Brightness

120° Wide Viewing Angle

Remote Control & Scheduling

Uniform Color

Flicker-Free

User-Friendly Software

Mechanical Diagram

50mm

25mm

Advantage

See-through

Patent Design

Quick Locker

2-layer Design

High Reliability

MF
OUTDOOR FULL COLOR
LED Display Solution

Key Features

- Unique soft LED strip suits any surface profile or shape
- See-through & low weight
- High refresh rate and low power consumption
- 16-bit color processing and high refresh rate provide stunning flicker-free broadcast video images
- High brightness & excellent display
- IP68 protection level

Aging test in progress

Specification

Item	MF50	MF 25/50
Pixel Configuration	2G2G2B	2G2G2B
Physical Pitch	50mm	25H / 50Vmm
Physical Density	400	800
Brightness	>4500 CD/m2	>7500 CD/m2
Length of Strip	2000mm	1500mm
Matrix of Strip	40 dots	60 dots
Max. Power Consumption	200W/m2	535W/m2
Horizontal Viewing Angle	120 degree	120 degree
Vertical Viewing Angle	60 degree	60 degree
Weight per Strip	1.2 kgs	0.9 kgs
Protection Level	IP68	IP68
Cabinet Dimension	2000X1600mm	1500X1600mm
No. of Strip / Cabinet	32	32
Cabinet Resolution	40x32	60x32
Weight, kg/m2	28	30
Transparancy	50%	50%
Housing Material	Steel	Steel
Color Temperature	3200 - 9300K adjustable	3200 - 9300K adjustable
Power Supply	AC220V/50Hz or AC110V/60Hz	AC220V/50Hz or AC110V/60Hz
Signal Processing	14-bit	14-bit
Grayscale Level	16384	16384
Driving Mode	Static	Static
Frame Rate	>60Hz	>60Hz
Refresh Rate	>1000Hz	>1000Hz
Lifetime (half brightness)	100,000 hours	100,000 hours
Lifetime (full white)	50,000 hours	50,000 hours
Operating Temperature	0 - 40°C	0 - 40°C
Operating Humidity	10 - 80%	10 - 80%

We reserve the right to change technical specifications without prior notice

INDOOR FULL COLOR

- Staging Oriented
- Live Broadcase
- Ultrahigh Brightness
- Uniform Color
- Seamless Vision
- Cost-Effective

IR

INDOOR FULL COLOR
LED Display Solution

Key Features

- Light weight, thin and slim, easy to carry and install
- Natural heat dissipation for the whole LED panel. The main structure is constructed by Aluminum which has high coefficient of heat conductivity
- No fans and air-conditional system are required for cooling
- High refresh rate and low power consumption
- Fast clamp lock helps fast installation, small seam between adjacent cabinets and high connection accuracy
- The LED panel is equipped with PSU but no fans, so no noise occurred when running
- Integrated design for the cabinet
- IP31 protection level
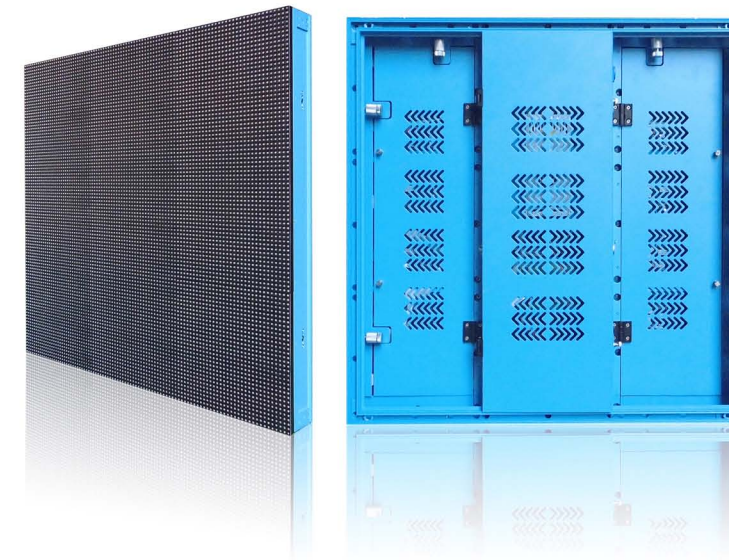
Specification

Item	IR3.84	IR4	IR4.8	IR5.33	IR6
Pixel Configuration			SMD 3-in-1		
Physical Pitch	3.84mm	4mm	4.8mm	5.33mm	6mm
Virtual Pitch			Nil		
Module Dimension (WxH)			288x288 mm		
Cabinet Physical Reso.(WxH)	150x150 dots	144x144 dots	120x120 dots	108x108 dots	96x96 dots
Cabinet Dimension (WxHxD)			576x576x62 mm		
Cabinet Surface Area			0.332 m2		
Protection Level			IP31		
Weight per Cabinet			10.5 kgs		
Physical Density	67817 pixels/m2	62500 pixels/m2	43402 pixels/m2	35200 pixels/m2	27777 pixels/m2
Brightness before Calibration	>1500 Nits	>1600 Nits	>2500 Nits	>2500 Nits	>2000 Nits
Brightness after Calibration	>1350 Nits	>1450 Nits	>2300 Nits	>2300 Nits	>1800 Nits
Color Temperature			3200K - 9300K adjustable		
Horizontal Viewing Angle			140°		
Vertical Viewing Angle			140°		
Brightness Uniformity			<3%		
Color Uniformity			>97%		
Contrast Ratio			5000:1		
Max. Power Consumption	Max. 1060W/m2	Max. 1060W/m2	Max. 910W/m2	Max. 910W/m2	Max. 910W/m2
Avg. Power Consumption	Avg. 530W/m2	Avg. 530W/m2	Avg. 530W/m2	Avg. 410W/m2	Avg. 410W/m2
Power Supply			AC85 - 264V		
Signal Processing			16-bit		
Grayscale Level			10-bit		
Colors			280 trillion colors		
Driving Mode	1/12	1/12	1/15	1/9	1/8
Frame Rate			50Hz - 60Hz		
Refresh Rate	>600Hz	>600Hz	>600Hz	>1200Hz	>1200Hz
Lifetime (half brightness)			100,000 hours		
Lifetime (full white)			50,000 hours		
Operating Temperature			0 - 40°C		
Operating Humidity			10 - 80%		

We reserve the right to change technical specifications without prior notice

MR Mesh & Rental Installation
SEMI-OUTDOOR FULL COLOR

- Staging Oriented
- Live Broadcase
- Ultrahigh Brightness
- Uniform Color
- Seamless Vision
- Cost-Effective

MR
SEMI-OUTDOOR FULL COLOR
LED Display Solution

Key Features

- Light weight, thin and slim, easy to carry and install
- Natural heat dissipation for the whole LED panel. The main structure is constructed by Aluminum which has high coefficient of heat contivity
- No fans and air-conditional system are required for cooling
- High refresh rate and low power consumption
- Fast clamp lock helps fast installation, small seam between adjacent cabinets and high connection accuracy
- 16 bit color processing and high refresh rate provide stunning flicker-free broadcast video images
- IP54 protection level

Specification

Item	MR7.8	MR8.9	MR10.42
Pixel Configuration		SMD 3-in-1	
Physical Pitch	7.8mm	8.9mm	10.42mm
Virtual Pitch		Nil	
Module Dimension (WxH)	500x250 mm	500x71.4 mm	500x62 mm
Cabinet Physical Reso.(WxH)	64x128 dots	56x112 dots	48x48 dots
Cabinet Dimension (WxHxD)	500x1000x60mm	500x1000x60 mm	500x500x62 mm
Cabinet Surface Area	0.5 m2	0.5 m2	0.25 m2
Protection Level		IP54	
Weight per Cabinet	9.5 kgs	9.5 kgs	5 kgs
Physical Density	16384 pixels/m2	12545 pixels/m2	9218 pixels/m2
Brightness before Calibration	>1500 Nits	>1200 Nits	>1300 Nits
Brightness after Calibration	>1200 Nits	>1050 Nits	>1100 Nits
Color Temperature		3200K - 9300K adjustable	
Horizontal Viewing Angle		140°	
Vertical Viewing Angle		140°	
Brightness Uniformity		<3%	
Color Uniformity		>97%	
Contrast Ratio		5000:1	
Max. Power Consumption	Max. 300W/Cabinet	Max. 300W/Cabinet	Max. 100W/Cabinet
Avg. Power Consumption	Avg. 150W/Cabinet	Avg. 150W/Cabinet	Avg. 50W/Cabinet
Power Supply		AC85 - 264V	
Signal Processing		16-bit	
Grayscale Level		>4096	
Colors		280 trillion colors	
Driving Mode	Constant	Constant	Constant
Frame Rate		50Hz - 60Hz	
Refresh Rate		>800Hz	
Lifetime (half brightness)		100,000 hours	
Lifetime (full white)		50,000 hours	
Operating Temperature		0 - 40°C	
Operating Humidity		10 - 80%	

We reserve the right to change technical specifications without prior notice

...More LED Products....
INDOORS, SEMIOUTDOORS & OUTDOORS

Elinker
- Simple to use / 12VDC operation
- DIY easy installation, no screws or tools required
- Fast, Slow & Mirror scroll modes
- Smart IR sensor allows remote control programming
- Adjustable viewing angle 360°

LED Limo Sign
- High bright L.E.D. to draw others' attention easily
- Rechargeable battery last for 4 hours
- Programmable by remote keypad
- Speed / brightness adjustment
- Store upto 20 messages in total

LED Name Tag
- Compact /Slim Design
- Program upto 255 characters per message
- 17 kinds of moving ways
- PC download (USB or RS232 interface)
- Attaches using micro-magnet

LED Writing Board
- To write anything you want by regular marker pen
- Text Erasable
- Low power consumption
- Colorful Writing
- RGB LEDs as back light

LED Time & Temperature Display
- High Bright LEDs (Red or Yellow) from Taiwan
- Easy installation / operation
- Programmable by remote
- IP65 housing for outdoors
- Auto dimming at Day / Night

LED Call-A-Number Display
- Easy installation / operation
- High bright LEDs for either indoors or outdoors
- Keypad operation
- Maintenance free
- Wide viewing angle 160 degree

LED Colorful Strip
- Wide range of color temperature
- Changing mode / display mode with controller
- Fully cut / connection accessories
- Lower power consumption
- 12VDC operation (220VAC optional)

LED Keyboard Display
- Keyboard direct programming
- Over 10 kinds of display functions
- 4 fonts and buit-in clock fucntion
- Vertical & horizontal auto displaying
- Store upto 12 messages

...More LED Products....
MONO COLOR, TRI-COLOR & FULL COLOR

LED Digital Board
- Program by USB interface & battery rechargeable
- Support TXT, JPG, BMP, PNG..etc files
- 30 kinds of built in animations
- Store 8 messages and 6,000 characters in total
- Brightness adjustment from 25% to 100%

OPEN Panel
- Super bright & wide viewing angle LEDs
- Low power consumption, 10W max.
- ABS housing / light weight
- Standard Voltage: 110VAC or 220VAC
- Maintenance Free & no cost for repairing
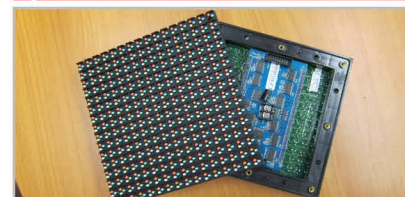
LED Module
- Pitches available in P4, P5, P6, P10, P16, P20...
- Single color, tricolor & full color
- Fully outdoors with IP65 on the front
- Ultra bright / stable LEDs for operation in 10 years
- Quick delivery in 10 days

LED Pharmacy Sign
- Single color, tricolor & full color available
- Programmable by PC software supplied
- Ultra bright LEDs for completely outdoors
- IP65 housing in aluminum material
- Easy installation & operation

LED License Frame Plate
- Running automatically when power on
- Low power draw (200mA) from 12VDC operation
- Remote programmable, max. 5 messages
- Color available in Red, Blue, Amber, Green, White
- Ultra SMD LEDs to ensure high visibility displaying

LED "FULL" Display
- Easy installation and operation
- Dry contact for on/off display
- High bright LEDs for outdoors
- Wide viewing angle, 120 degree
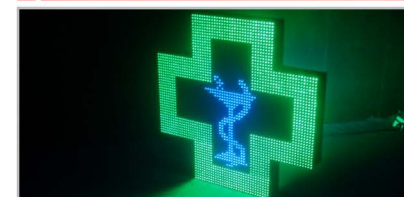- Custom made size & flashing effect

LED Traffic Display
- Ultra bright LEDs for day time viewing
- Wireless communication, max. upto 800 meters' dist.
- IP65 housing in aluminum material
- Networkable and scheduling
- Low power consumption, 100W /m2

LED Traffic Light (OEM)
- 200mm diameter PCBs
- 90pcs of LEDs for both RED / GREEN lights
- 12VDC low voltage operation
- Dry contact for on/off
- Superior brightness; R: 5000mcd & G: 6500 mcd

About LED Display Technology

What is an LED?

LED stands for Light Emitting Diode. Basically semiconductor chips that produce light, LEDs are much different and far more efficient than incandescent light bulbs. They consume far less electricity, requiring only 1/10 to 1/40 the energy of incandescent bulbs. While light bulbs burn out relatively quickly, LEDs can last for more than 100,000 hours.

What is a Pixel?

A pixel is a cluster of two or more LEDs, each delivering a single point of light or color. Monochrome signs use pixels that are clusters of single colored LEDs. A pixel in a color sign combines red, green and blue LEDs (which is why color displays are sometimes referred to as RGB displays). Arranged in rows and columns, thousands of pixels go into every LED sign.
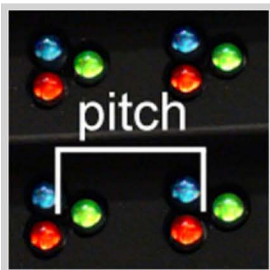
What does "pitch" mean?

The pitch of an LED sign is the distance between each pixel. If a pitch is 16mm, that means that each pixel (or LED cluster) is 16 millimeters apart. Smaller numbers mean a "tighter" pitch.

The closer the pixels (or the tighter the pitch), the crisper and more realistic your image appears, especially when viewed from shorter.
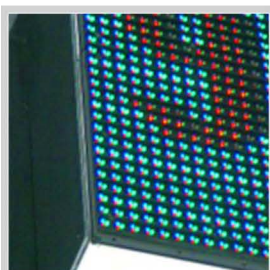
LEDs and Viewing Angle

Viewing Angle refers to the angle from which an LED display is seen by passers-by. When you look at an LED straight on, it is at full brightness. As you view the LED from different directions, the brightness changes and the image becomes less clear. This is typical for all LED signs, but some have a wider viewing angle, allowing you to see more of the image.

Resolution

Resolution is the overall number of pixels in a display, usually defined in terms of vertical and horizontal components. The higher the resolution, the better the picture quality.

Selecting the Right Electronic Display

Viewing Distance & Time?
Understanding viewing distance and time will help you determine the correct size of your electronic sign.

2" Text (51mm) 4" Text (102mm) 8" Text (203mm)

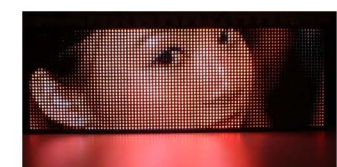Viewer

100ft/31m
200ft/61m
400ft/122m
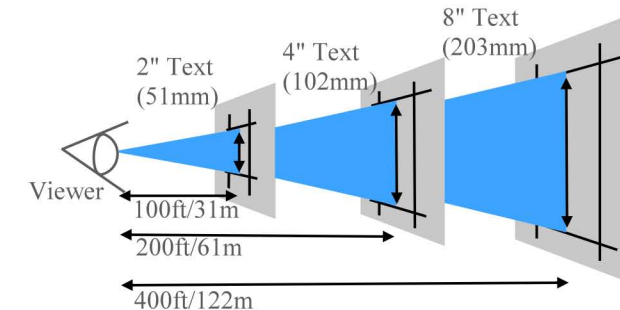
Text or Graphics?
Ideally, everyone wants to run graphics and dazzling animation on their electronic sign to attract lots of viewers. In fact, it is really not necessary if your screen is used to show, e.g: financial information, community announcements, upcoming events...etc.
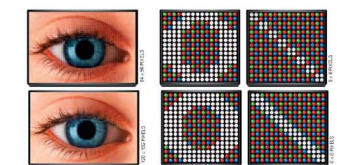
Text Display   Graphic Display

Message Content (Lines or Text and Resolution)?
How much content you want to display on your electronic sign at once. LED signs give you the flexibility of displaying multiple messages by cycling through the messages at a delayed interval. Resolution is another factor you need to consider. Usually, higher the number of pixel, higher the resolution.
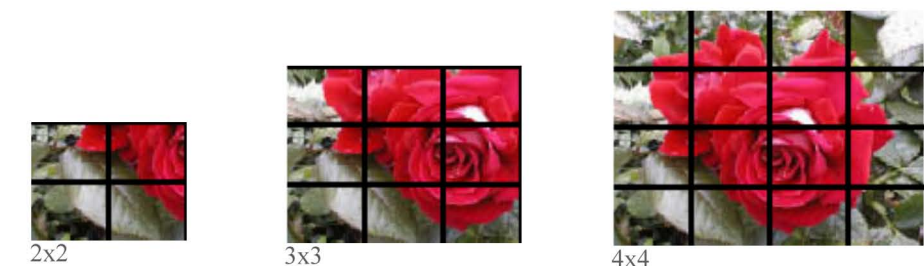
Multilines Display   High resolution vs low resolution

Physical Size of Electronic LED Display?
We can modify our standard models or custom build electronic sign systems to suit your needs.

2x2   3x3   4x4

Other Factors to Consider?
We have covered the basic factors you need to consider when selecting an electronic sign. There are other factors that you may need to take into consideration. Please feel free to contact us and we will be glad to explain it to you.
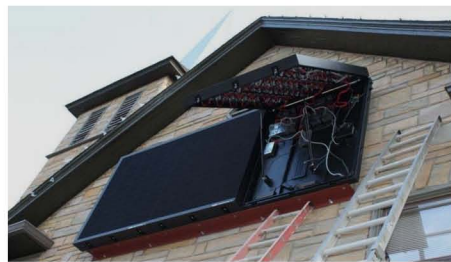
Customer Service Hotline
+852 2808 2848

Installation for LED Displays

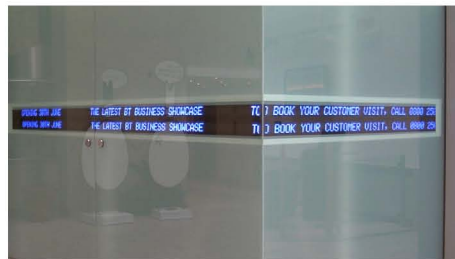## I) Regular Installation

Pole Mounting

Wall Mounting & Front Access

Hanging on Ceiling

Fixed to Wall

Support with Pilar

Stand on Ground

II) Installation On Top Of Building

Front View

Rear View

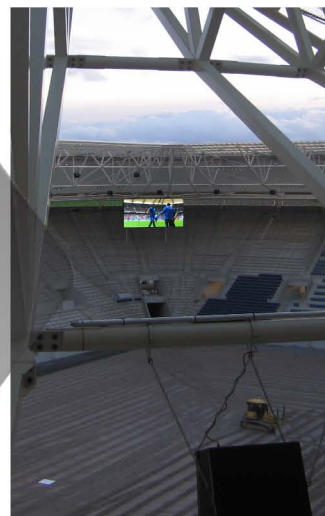## III) Putting Up the LED Video Display in Stadium

Prepare the main structure
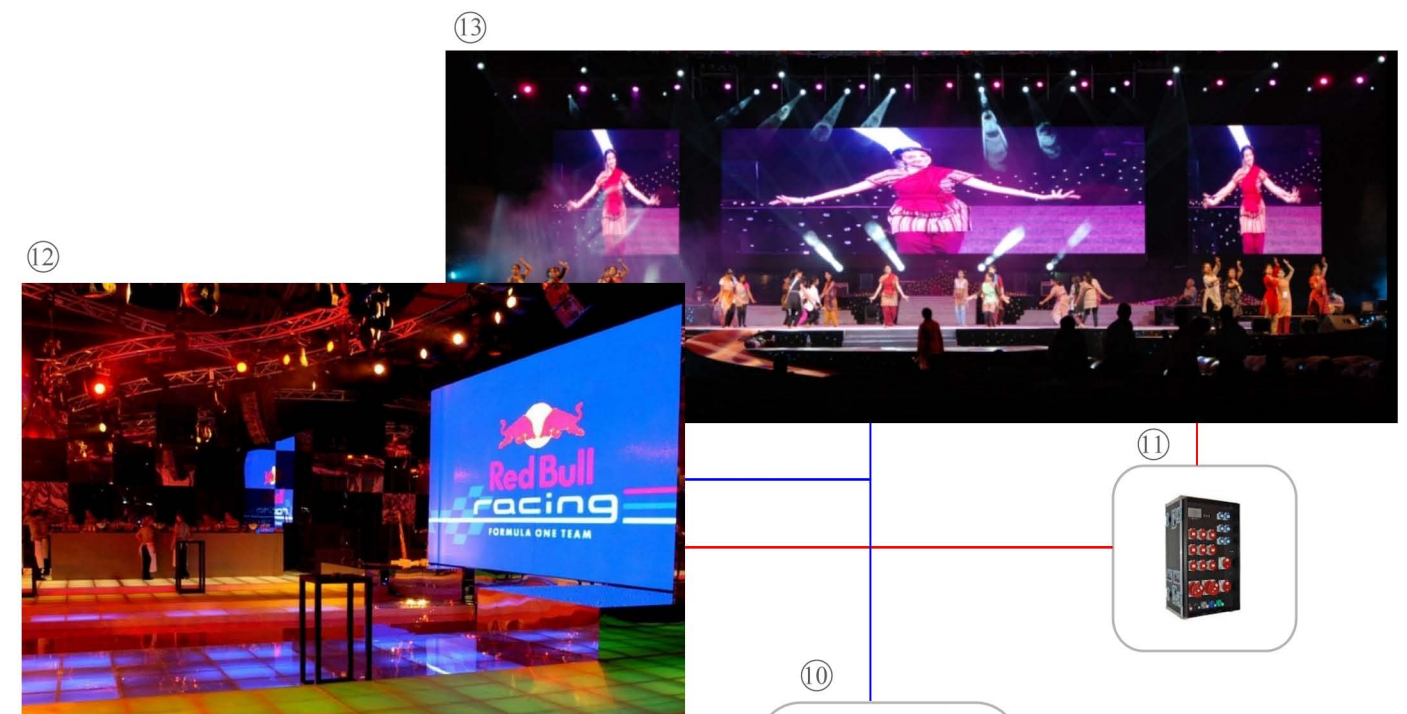

Assemble module by module

Lift up the screen in position

Powe on and turn on the display

Control System for LED Video Display

Illustration

Iput Signal

1. HDTV Play

2. Camera

3. Satellite Receiver

4. Digital Video Disk

Control System

5. Control PC

6. Control Platform

7. Video Processor

8. Monitor

9. Splicer

10. Splitter

Display Equipment

11. Power Distribution

12, 13. LED Display

—————— Power Cable

—————— Data Cable