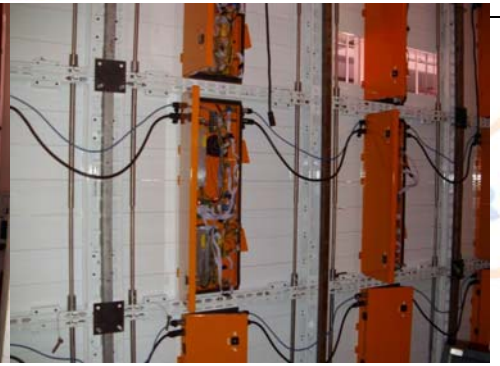
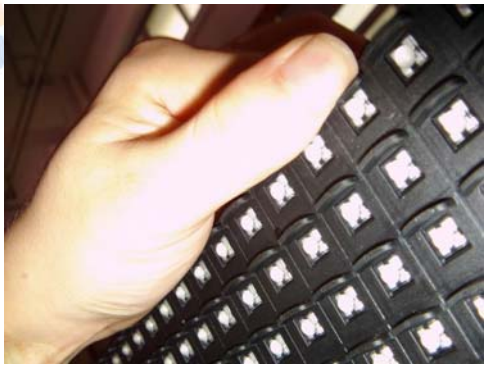
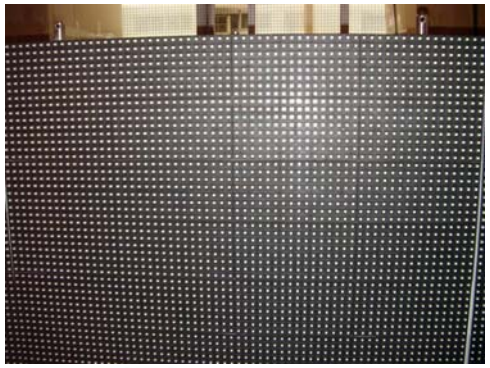
1.024 by 0.896 meters 0.917504 sqm PH16mm Super flux outdoor LED video display with SILAN LED chip & MBI5024 driving IC,standard waterproof iron cabinet, delivery time: 35 working days, 5 years quality warranty with high class quality level

Item No		Quantity	Unit price	Total	Remarks
1	LED display body(USD/SQM)	0.917504	1800	1652	LED display body & control system
2	Sending card(LINSN801/ZQ-V8) (USD/SET)	0	229	0	
3	Receiving card (LINSN801/ZQ-V8) (USD/SET)	1	59	59	
3	LED6698 maseter controller (USD/SET)	0	780	0	
4	1% spare parts free charge	1%	0	0	
5	Flight case for rental use (USD/SQM)	0.917504	120	110	Sports stadium perimeter & rental use items
6	Aluminum cabinet (USD/SQM)	0.917504	100	92	
7	Lock button & cabinet inner structure (USD/SQM)	0.917504	75	69	
6	Mounting legs for the stadium perimeter display to get a certain degree for better viewing angle (USD/SQM)	0.917504	70	64	
7	Soft mask for protecting the player (USD/SQM)	0.917504	60	55	
8	Soft top cover for protecting the player (USD/SQM)	0.917504	30	28	
9	HD LED video processor:LVP603S (USD/SET)	1	2000	2000	
Total(FOB Shenzhen)			**USD**	**4128**	

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

Shenzhen ERALED Optoelectronics Co., Ltd.

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

Price list & useful tips on our LED display products Created by ERALED

Part 1: Price list & Detailed explanation about the items mentioned in the quotation list
Part 2: FAQ about the important items when we finalize and choose a certain LED display solution
Part 3: Other knowledge maybe useful for your LED display business

Part 1: Price list & Detailed explanation about the items mentioned in the quotation list

Price list(USD/SQM) & Catalogue of LED Display Product

Classifications		Specifications & technical parameters					
		Product Model(pixel pitch,scanning method/driving mode,pixel & module configuration,module dimension)	Pixel density (dots /SQM)	Max Power consumption (W/SQM)	Min Best viewing distance (M)	Brightness (nits)	SILAN
Sports perimeter display	Outdoor	PH16,1/1,Super flux,24*24,240*240mm	3906	900	10	9500	1800
Outdoor video display		PH10,1/4,1R1G1B,16*16,160*160mm	10000	750	6	9500	1595
		PH12,1/4,1R1G1B,16*16,192*192mm	6944	750	7	9500	1400
		PH16,1/1,1R1G1B,20*20,320*320mm	3906	900	10	9500	1030
		PH20,1/1,1R1G1B,16*16,320*320mm	2500	700	12	7500	835

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

		P10,1/2,SMD5050,32*16,320*160mm	10000	800	6	7000	2500
		P12,1/2,SMD5050,16*16,192*192mm	6944	700	7	6500	2000
		P16,1/1,SMD5050,16*8,256*128mm	3906	800	10	6000	1500
		PH12,1/4,2R1G1B,16*16,192*96mm	6944	1100	7	8000	1630
		PH16,1/1,2R1G1B,8*16,256*128mm	3906	1000	10	8500	1150
		PH20,1/1,2R1G1B,8*16,320*160mm	2500	900	12	7000	960
		P10,1/2,Super flux,24*24,240*240mm	10000	750	6	6500	2600
Cast alluminum cabinet LED display screen		P4,1/16,SMD2020,60*60,240*240mm	62500	850	2	2500	5600
		P4.8,1/16,SMD2020,50*50,240*240mm	43403	800	2	2500	3200
		P5,1/8,SMD3528,48*48,240*240mm	40000	750	3	2500	3000
		P5.33,1/16,SMD3528,45*45,240*240mm	35200	720	3	2200	2800
		P6,1/16,SMD3528,40*40,240*240mm	27777	700	4	2000	2300
Indoor video display		P2.8,1/16,SMD2020,64*32,179*89.5mm	127550	1000	1	1500	14500
		P3,1/16,SMD2020,64*32,192*96mm	111111	950	1	1500	10000
	Indoor	P4,1/16,SMD2020,32*32,128*128mm	62500	900	2	2500	5300
		P5,1/8,SMD3528,32*32,160*160mm	40000	800	3	3000	2690
		P6,1/8,SMD3528,32*16,192*96mm	27777	750	4	2000	1880
		P7.62,1/8,SMD3528,32*16,244*122mm	17777	550	5	1700	1250
		P8,1/8,SMD3528,32*16,256*128mm	15625	500	5	1600	1180
		P10,1/4,SMD3528,32*16,160*160mm	10000	450	6	1400	885
Indoor LED stage curtain display		P12.5mm,1/4,SMD3528,800*400mm	6400	300	19	1200	880
		P16mm,1/4,SMD3528,768*512mm	3906	200	23	800	820
		P20,1/4,SMD3528,960*640mm	2500	160	12	700	700
Outdoor	**Outdoor**	P18,1/1,SMD5050,32*32,576*576mm	3086	480	11	4000	1700

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

Transparent LED curtain display		P31.25,1/1,2R2G2B,32*32,1000*1000mm	1024	750	19	5000	1450
		P62.5,1/1,3R2G2B,16*16,1000*1000mm	1600	250	15	3000	1500

Price List Of LED Display's Key Components

	Description	Remarks:	Unit	
PC	LED6690	LED6690-IPC:industrial PC(without monitor and keyboards):Model number:LED6690(150W industrial power supply /ATOM-1.6G CPU/1G memory /320G notebook hard drive DVI output)。		650
	LED6698	LED6698-IPC:industrial PC(without monitor and keyboards):Model number:LED6698(150W industrial power supply /ATOM-1.8G CPU/2G memory /320G notebook hard drive DVI output)。		780
	Touch panel(LED6690/6698)	Touch panel for LED6690/6698		200

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	DVI graphic card	Graphics card (single DVI output port) (for conventional screen if a customer purchased LED6690 6698 can not buy to buy the DVI graphic card in order to save the customer's total cost, easy customer selection LED6690; speed faster, such as customer requirements can beLED6698 recommended selection. LED6690/6698 belong to a professional LED display control computer is much better than normal IPC and customers with home computers, cutting the need for a separate with a graphics card, graphics card also is a considered a bad projectand customers clear the truth inside, customers will be more easily accepted LED6698/LED6690)		80
		Graphics card (high list of DVI output port) - suitable for high demand rental, television		200
		Graphics Card (Dual DVI output port) - suitable for large area screen		400
		Graphics card (high-definition dual-DVI output port) - suitable for large area screen		1400
Syncrunous Controlling card	Linsn801 sending card	801 conventional built-in send a card (ZQ-V8, Dpstar, such as other types of full-color similar to the synchronization feature, same price)		229
	Linsn801 receiving card	801 receiver card		59
	Linsn802 sending card	USB interface to send cards, an iron box and power supply external, can be placed outside the computer. When the laptop as a control computer, the client can only use the external sending cards. Send cards you do not need external use with industrial machines and desktop computers		350
	Linsn802 receiving card	Receiver card 802 to send cards supporting		59
	Multi-function card & brightness sensor	Conventional built-in multifunction card: the first box of the first one to receive the card connection (between the receiver card send the card - and a box)		100

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	Multi-function card & brightness sensor	External multi-function card: can be placed on the outside of the display cabinet, installation flexibility.		220
	LinsnDS801 :Single color tri color sycronous controlling card:DS801 sending card	Only a single color screen synchronous control system, similar to the 801 full-color synchronous control system functions. When a customer needs a high gray level, can recommend customers use this section.		120
	Linsn DS801 :DS801 receiving card			59
Asyncrunous	SCL2008 controlling card	Single color tri color asycronous controlling card :SCL2008:no graye grade		100
	Supercomm controlling card	Single color tri color asycronous controlling card :Supercomm:has 256 degree graye grade		170
	M10 controlling card	Single color tri color asycronous controlling card :XIXUN M10:has 256 degree graye grade		150
	M20 controlling card	Full color asycronous controlling card:XIXUN M20: 4096 degree gray grade;320x160 pixels controlling abilility		200
	M31 controlling card	Full color asycronous controlling card:XIXUN M31:4096 degree gray grade;320X320 pixels controlling abilility		300
	JZ874 wireless module	JZ874 wireless module for single color/double color LED display for transfering text and photos only（for scl2008,supercom only)		100
	M-GPRS wireless module	for the M10 card: 2G speed is limited to the transmission of text and simple low-resolution images		200
	3G wireless router	for M20, M31: unlimited support picture video communication (video speed will be slower, depending on the customer's local network speed): 3G speed is a more advanced version of the M-GPRS (2G speed). Transmission speed is faster.		250
	Temperature,humidity,brightness sensor	And the scl2008, supercom series supporting the temperature sensor, humidity sensor, brightness sensor. Generally clients only need a temperature sensor.		30

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	R20	And M10/M20/M31 card: XIXUN full control card, a complete series of ancillary equipment. The R20 has a collection of temperature sensor, humidity sensor, brightness sensor and the air outside remote control four function with one.		80
Rental use items	Flight case	Two standard box installed in a the aeronautical box (USD / SQM)		120
		A standard box installed in an aviation box (USD / SQM)		200
	Lock button	Rent screen, stadium screen, in-car screen will be used, generally do not need conventional screen lock (USD / SQM)		35
	Cabinet inner hanging structure	Rent screen, stadium screen, in-car screen will be used, generally do not need conventional screen lock (USD / SQM)		40
	Rental use lock button & cabinet inner hanging structure/pole	If the rental screen lock, boom hoisting structure Required items: the locking of the rental box, boom two merger offer 75USD/SQM)	USD/SQM	75
	Hanging beam	Lifting beams: screen height is how much must be added to the lifting beam the length of the screen body, you need the number of beams; is generally the same length of the beam to the top of a row of box each box with a . If the customer may use a different box arrangement, only need to know the actual customer use may be used up to the length of the screen body. With the corresponding length of the beam in accordance with may be used in the length of the longest Screen enough.	USD/Meter	150

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	Hanging cork base	Lifting the end of care: screen height of more than four meters must be added to lifting the end of care, the screen height of less than 4 meters to be added to lifting the end of care		150
Stadium perimeter use items	Mounting legs for the if need a certain degree for better viewing angle (USD/SQM)	Adjustable iron bracket	USD/SQM	65
	Soft mask for protecting the player (USD/SQM)	Soft mask (only the outdoor the DIP P16 20 and the SMD5050 P10 three specifications soft mask) indoors all soft mask		45
	Soft top cover for protecting the player (USD/SQM)	Soft-top cover		35
Driving IC	MBI5035 driving IC(high grade energying saving model)	Energy-saving high-end version (support the full range of control system) --- energy-efficient screen:		200
		Energy-saving screen for the main push of outdoor static specifications to promote.		
		(2) other than the static specification, in the scan mode and other parameters are the same conditions with the MBI5035 the driver IC to do energy-saving screen, plus $ 200 per square.		
		(3) energy-saving rate:		
		Static: 40%		
		1/2 Scan: 20-30%		

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

		1/4, 1/8, 1/16 scan: 10-20%		
	MBI5042 driving IC(high grade dot correction model)	High gray level of the high refresh rate of pointwise version (not compatible with the mainstream control systems with lisn, ZQ; the The MBI5042 the driver chips can not match Linsn / ZDEC system uses, can only be used Noval and De Puda system; but Noval and Depp up the system software is complex and unstable and therefore do not recommend customers use.)		100
	LINSN28161 driving IC(high grade dot correction model)	Point by point correction function - high refresh rate and high gray level-by-point version - not yet had problems, higher than the ZQ's stability; stadium screen projects can recommend customers use this version (for already familiar with the ZQ system uses and old customers, you can still continue to use the ZQ system) - new customers no longer take the initiative to recommend to customers choice of ZQ of the system).		150
Cabinet	Simple metal cabinet	Reference pricing policy for the standard of the standard metal box (If purchased separately the need for this form to the purchase of conventional box; special small box, big box, double-sided box, and accounted for separately, not out of this list). If the customer needs instead of the standard metal box, while the corresponding increase or decrease the standard metal box as the base.		135
	Standard metal cabinet			200
	Simple Aluminum cabinet			200
	Standard Aluminum cabinet			300
Cast aluminum	P4,1/16,SMD3528,32*32,128*128mm	High-end rental customers can recommend customers use 480 * 480mm die-cast aluminum box; 480 * 480mm die-cast aluminum box rental		800

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

Cabinet	P5,1/8,SMD3528,32*32,160*160mm	lifting the cost of the box, lock and lifting structure does not need to add another; 480 * 480mm of die-cast aluminum enclosure itself is already a default with the locking of the lifting box. Only need to add air boxes, beams and bottom bracket part. Must pay attention to, die-cast aluminum enclosure can only do 480 * 480mm.		700
	P6,1/8,SMD3528,32*16,192*96mm			650
Black LEDs adding cost	P2.8,1/16,SMD2020,64*64,179*179mm	(General household neiping do not need to be made black light, if the rental screen, you need the key recommendation of the customer to select black light if it is the rental of die-cast aluminum box, be sure to recommend the customers to choose the black light die-cast aluminum black lights rental The cabinet is made of indoor rental most mainstream applications, ordinary rent Cabinet will gradually be replaced by die-cast aluminum box; die-cast aluminum box If you do not have black lights, the effect of the rate of improvement is very small --- pressure cast aluminum enclosure to improve the surface appearance of the rental box, black lights to improve the effect of the actual performance of the rental box.)		2700
	P3,1/16,SMD2020,64*64,192*192mm			2400
	P4,1/16,SMD3528,32*32,128*128mm			705
	P5,1/8,SMD3528,32*32,160*160mm			525
	P6,1/8,SMD3528,32*16,192*96mm			365
	P7.62,1/8,SMD3528,32*16,244*122mm			235
	P8,1/8,SMD3528,32*16,256*128mm			230
	P10,1/4,SMD3528,32*16,160*160mm			150
	10.4,			140

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	P12.5mm,1/4,SMD3528,32*16,400*200mm each module,800*400mm each cabinet			105
	P15.625mm,1/4,SMD3528,32*16,500*250mm each module,1000*1000mm each cabinet			95
	P16mm,1/4,SMD3528,32*16,512*256mm each module,1024*1024mm each cabinet			70
	P18.75mm,1/4,SMD3528,16*16,300*300mm each module,600*900mm each cabinet			60
	P20,1/4,SMD3528,16*16,320*320mm each module,960*640mm each cabinet			50
Video processor	820C video processor	SD:1024 * 768	USD/SET	1000
	LVP602 HD video processor	HD: 1920 * 1080		1500
	LVP603 HD video processor			1700
	LVP602S HD video processor			1750

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	LVP603S HD video processor			2000
	ViewSync3000LA	Each way support the Cape clear 1024 * 768; over two-way need to increase the ViewSync3000LA single output card; each ViewSync3000LA single output card supports S & P clear 1024 * 768; add a few road need to increase the increase the few ViewSync3000LA single output card. The minimum configuration is a 2-way.		5700
	ViewSync3000LA	Used in conjunction with with ViewSync3000LA splicer; general case can be resolved without the use of video processor 4 video processor parallel; only demanding when it need to be equipped with a video processor. (The Enterasys video splicer price and Vionnet's ViewSync3000LA splicing is basically the same)		2100
Sound box	Speaker	Car screen accessories (an amplifier with two speakers; a screen generally require two power amplifier with 4 speakers)		400
Amplifier	Amplifier			650
Lightning conductor	Lightning arrester	Recommends that customers purchased locally, would be better services, insurance, etc.)		700
M/W power supply	General the M / W power supply (M / W power quality compared Chuang, Lian power,	5V40A		30
		5V50A		35

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

	fame, good reputation. A lot of foreign customers to develop the need for the M / W power supply.	5V60A		40
		Switch to the M / W power per square foot increased costs (USD / SQM) (This is a full-color standard; outdoor color in full-color standard on the basis of a decrease of 20%; monochrome 40% reduction in full-color standard on the basis of)		65
	CE, UL certified M / W power supply (shipments to the North American orders, if the customer is no special specified, be sure to put UL certified M / W power supply as standard in the initial offer.)	Switch to CE, UL certified M / W power per square foot increased costs (USD / SQM) (This is a full-color standard; outdoor color in full-color standard on the basis of a decrease of 20%; monochrome full-color standard basis 40% reduction on)	USD/SQM	80
		5V40A	USD/SET	40
		5V50A		50
Chuang Lian power supply	Normal (standard default configuration Lian Chuang, common 220/110V 5V40A/5V60A of power)	5V40A		15
		5V60A		20
	CE certification (only CE, UL)	5V40A		20
		5V50A		35
Fan	Fan	220V/110V/5V(USD/SET)		7
Module Veil	Module Veil	The outdoor 4USD/pcs; indoor 2USD/pcs		4

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

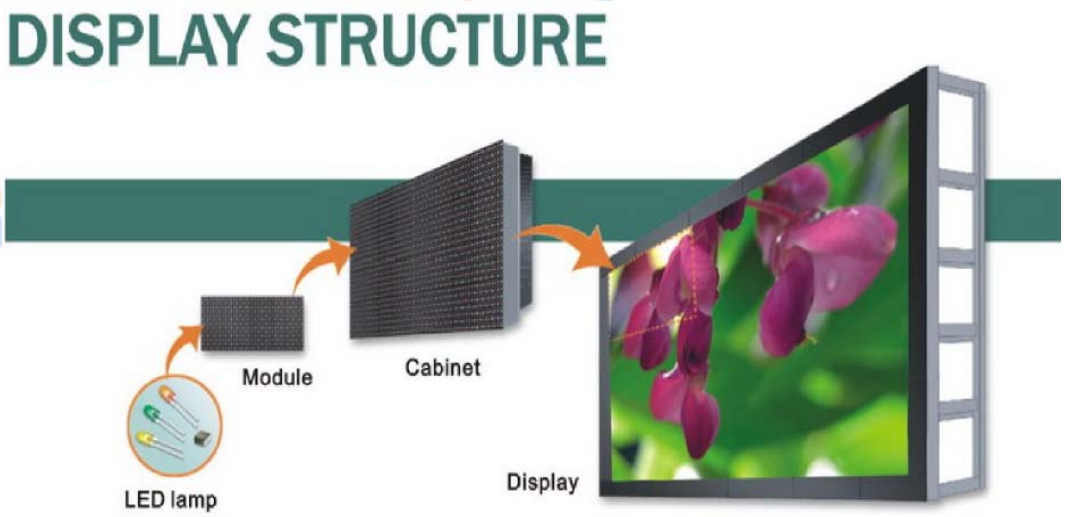
Hub card	Hub card	Part of the price is included in the price of the receiver card; If the customer purchased separately backup receiver card, the hub will together contain the account; customers generally do not need to be purchased separately hub card.		7
Other components	CAT5 data cable(USD/Meter)	Conventional default standard cable: Control the distance of 100 meters		0.5
	Fiber(Single mode fiber)		USD/Meter	3
	Fiber converter	Single-mode fiber to control the distance of 5000 meters, including sending and receiving conversion: need to be equipped with single-mode fiber converter and the length of the single-mode fiber	USD/SET	500
	120square(mm) power cable(between main power box & the power distribution cabinet)	120 square cable (connection between the distribution cabinet and generator)		5
	4sqmm power cable(USD/Meter)	4 the square of the power cord (connection between the cabinet and the cabinet)	USD/Meter	1
	Power & Data Connector(USD/SET)	Power and data air head: One set include the connector on the male one female the Power & Data	USD/SET	20
Generator & Environmental mute ark	5KW	Standard Weichai generator sets; other generating units, such as customer specified the need for a separate nuclear price. Mute cabinet: Environmental protection and low noise: ≤ 75db (A)	Mute cabinet contains board generator and the corresponding models	2000
	10KW			3000
	18KW			4000
	30KW			4800
	40KW			5200
	50KW			5800
	75KW			6800
	100KW			8100
	120KW			8700
	150KW			9100
	200KW			31000

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

Power distribution cabinet	10KW	For power-on function in the PLC functions the plus 500USD/SET. For high-end customers can take the initiative to this function with	Golf course, car rental and large billboards need this equipment.	550
	30KW			750
	50KW			1000
	80KW			1100
	100KW			1400
	130KW			1700
	150KW			1850
	200KW			2100

1.What is LED display screen body?

The LED display screen body is the final completed product for a digital video, graphics or text showing, it was composed by a certain rows and lines of LED display cabinet; the cabinet was composed by a certain quantity of LED modules, each LED module was composed by a certain rows and lines of LED pixels; each LED pixel were composed by a certain number of LED (1R1G1B, 2R2G2B, 3R2G2B etc.).



2. What is sending card, receiving card, hub card & IPC of the LED display screen system?

(1)Sending card, receiving card & hub card is the LED display screen's main parts of the control system. Sending card is installed in the controlling IPC, it is the data sending equipment； receiving card is installed in the cabinet, is the data receiving equipment; hub card is installed together with the receiving card, is the data distribution equipment. The hardware of the control system also includes the controlling IPC. It's better to use special IPC for the led display system since the common home use PC is not tough enough for continuous nonstop long time using. The controlling software is usually free and can download freely from the system provider's website. Our website also offers the load interface, but the newest version will be always on the system provider's website. All the above composed the main necessary parts of the control system.

(2)For the LED video display screen system: the most common use control system is LINSN, 2ND common use control system is DPSTAR, 3RD common use control system is ZDEC.

If you were new comer for this LED display system, you'd better choose LINSN system since the controlling software is very user friendly and the system's compatibility is the best.

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

DPSTAR has the same functions as LINSN, but the controlling software is not as user friendly as LINSN software. So the application of this system is not as wide as LINSN too.

ZDEC were focusing on the high level market, but failed in this market in the end. So now, it has a new popular version V8 system which has similar controlling software. The controlling software is still not as user friendly as LINSN software. But the fresh frequency is very high (the fresh frequency of the static LED display is 10,000HZ, which is 10 times higher than the above 2 systems.

Besides the above 3 mainstream full color synchronous controlling system, there are also many other new systems, like NOVAL from Xian. Some system has very powerful function, some has very good user friendly interface. But none of them can compete with the above 3 mainstream system since the system's compatibility, function & programming software always have a very serious defect.

(3) Controlling system has a very strong relationship with the quality. If using a poor system, even the LED display's quality is high, the screen will still cannot have a perfect showing effect. If you were a new comer/user, then LINSN will be the best solution. But if the LED display's size is very large, like more than 50 SQM, then we'd better choose a more powerful system ZDEC-V8 since high fresh frequency is really very important for large LED screen. If you plan to stay in the LED display screen's industry for a long term, then we'd better choose the most powerful system ZDEC-V8 too. Of course, if you plan to build a LED billboards for your own small shop use. Then there will be no any meaning to spend a lot of time on the software and system using study for the ZDEC-V8 system.

Another point which needs careful consideration is: if you never touch with the LED display before, then you'd better leave for minimum 1 day for learn & study how to use it. If you have an urgent project need for the LED display, then you have to leave a little more time for unexpected study obstacle.

3. Aluminum cabinet: comparing with common iron cabinet, aluminum cabinet is 100 USD/SQM higher than the common iron cabinet. Weight of aluminum cabinet is lighter than iron cabinet (iron cabinet: 70KG/SQM; aluminum cabinet: 45KG/SQM).

Aluminum cabinet has much better rustproof ability & longer using lifetime. But for the best rustproof solution, we suggest you choose hot galvanization method. By using hot galvanization, the iron/ aluminum cabinet will has the highest rustproof ability.

If using hot galvanization method: the cabinet size should be less than 1.5*1.5meters. Cost of this solution is 70USD/SQM.

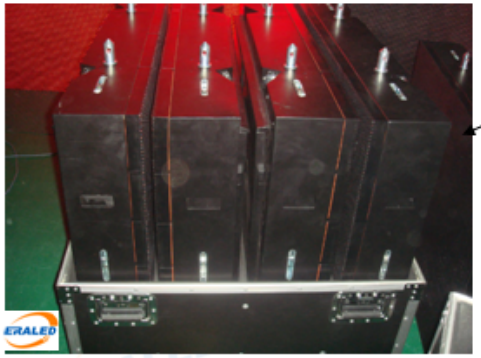
Aluminum has higher possibility of bended during moving and installation period, so if not for rental use and no need for moving to different places frequently, then iron cabinet with hot galvanization will be a better solution than using aluminum material only. If the main application is for rental use & need to move to different places frequently, then aluminum cabinet solution will still be better than the iron cabinet with hot galvanization solution

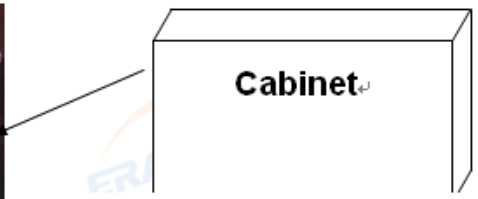
4. Flight case packing? What is wooden case packing & paper carton packing?

1>Flight case is use for rental application. It is tougher than the wooden case and the paper carton. It has 4 wheels and has 8 handles to make the transportation be very convenient and can be protected the LED display better. Cost is higher than the wooden case

2>Wooden case is for one time using, after unpacking, it cannot use any longer. For the fixed installation LED display system, wooden case packing is the only way and the best way for packing since the low cost and almost same safe level for one time using.
If your LED display screen system is for the rental use, please choose the flight case packing for your LED display screen.
3>Paper carton packing is only for domestic transportation and air freight using.

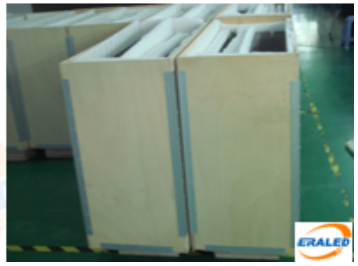
Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567





Put two or four cabinets into one Fight case

or Wooden case or Paper carton

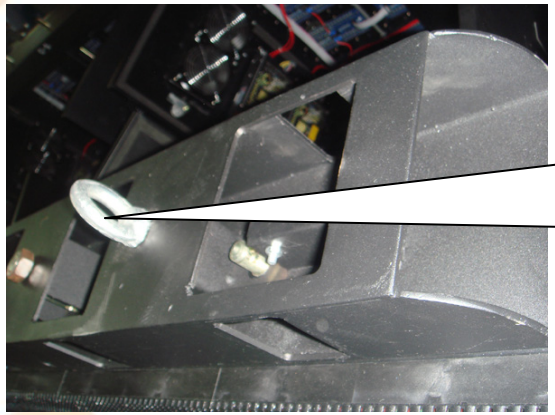


5. Hanging beam, lock button & cabinet inner structure is the rental use accessories:

(1) Hanging beam is one of the main parts for the rental display's structure. When the rental display's total height is less than 4 meters, then only the hanging beam is enough to hang it up; if the total height is more than 4 meters, then we also need a bottom base. One hanging beam is usually one cabinet's length; one hanging beam can also be 2, 3 or even more cabinet's length. The longer the hanging beam the better the screen's flatness will be. But when the hanging beam is longer, the free combination ability will be lower. So the most common use hanging beam length is equal to the cabinet length.

The following photos can give us a more clear idea on what is hanging beam:

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567



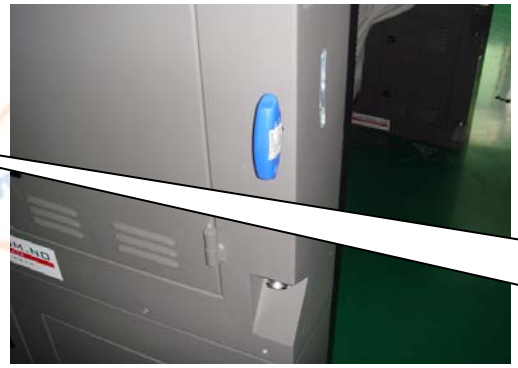
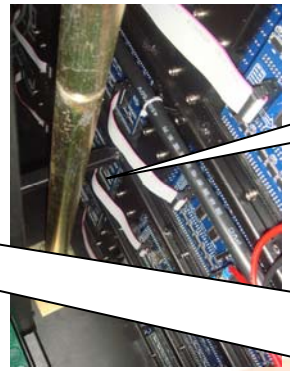
This is the hanging bean

(2)Lock button: lock button is mainly for rental use: the advantage of the lock button is that it can make the cabinet assemble be faster and make the cabinet connection be more tight and flat than the normal standard LED display cabinet.

The lock button also widely used for sports stadium perimeter display, mobile truck & mobile trailer LED display.

The detailed diagram on what is the lock button is like the following photos shows you:

(3) Cabinet inner hanging structure (hanging suspender/pole): this is the main equipment for bear the total weight of the screen. This photo can help you get a clear idea on this concept:

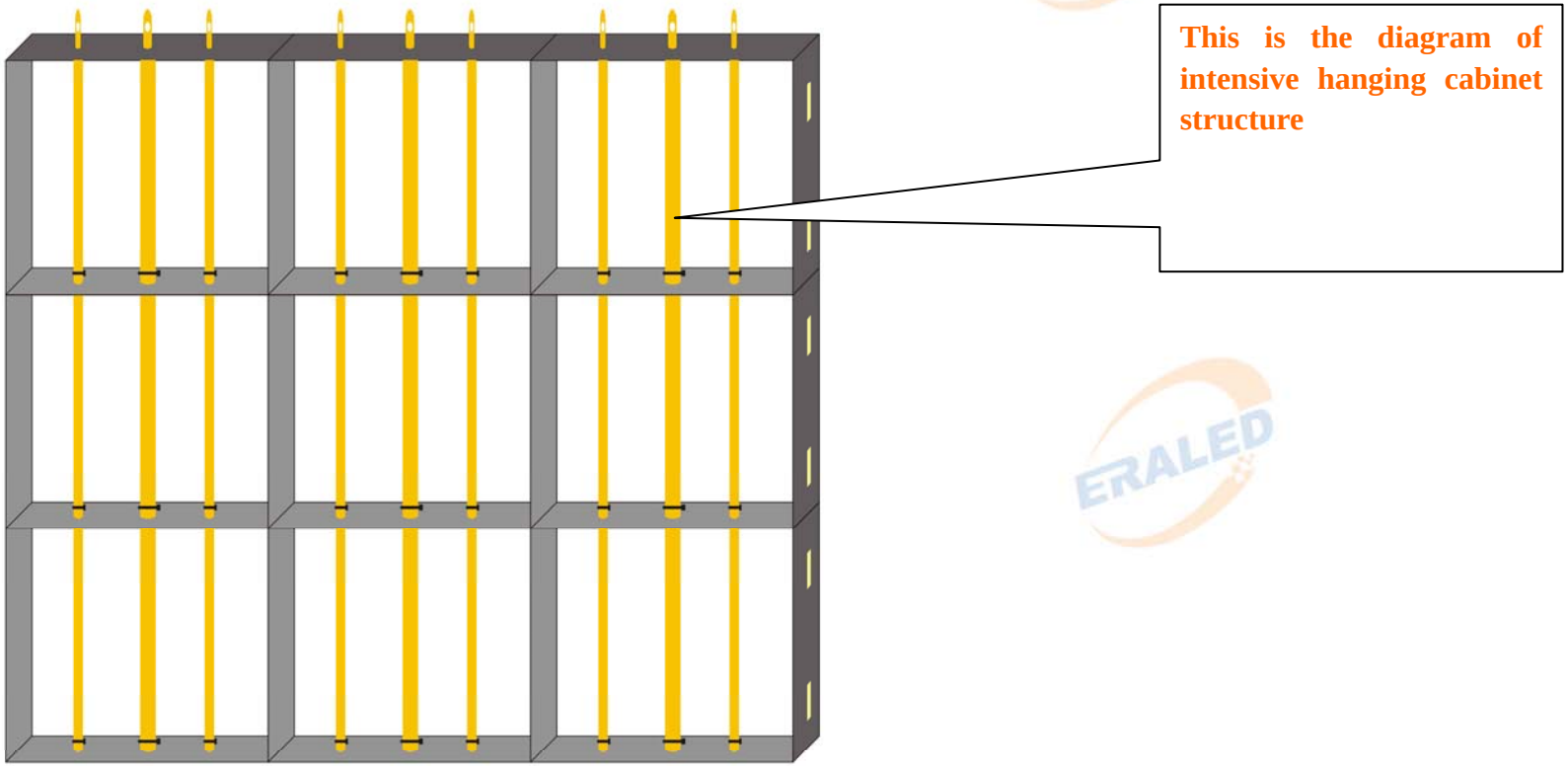



This is the Cabinet inner hanging structure (hanging suspender/pole)

This is the lock button when lock on and lock off

(4) Diagram of intensive hanging cabinet structure is like what the following photos show you:

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567



6. HD LED video processor: HD LED video processor is used for connecting HD video signals and other common video signals. The LED video processor can also control the LED display directly, which means we can install the sending card in the LED video processor directly and control the LED display without using IPC. For the common program making, IPC is much more convenient than the LED video processor. The main function of the LED video processor is expanding the video signal sources. Some signal has to connect with the LED video processor first, then can display on the IPC. For example, the live show signal has to connect with the LED video processor first --->then can display on the IPC.

The LED video processor has HD format (1920*1080) and common format (1024*768). If the LED display's definition is higher than 1024 pixels in length, then we'd better use the HD LED video processor. If the LED display's definition is less than 1024 pixels in length, then we can just use the common format LED video

processor (support 1024*768 pixels)
The LED video processor has many optional models and each model has a little difference on the functions. For more detailed introduction on the LED video processor, please check the following link: http://www.videowall.cn/en/
If the LED display is only used for showing common format videos, graphics, text, and no need to connect to other signal sources, like camera, DVD, then we don't need the video processor. Only one IPC will be very enough.

7. Mounting legs, soft mask & soft top cover is the main parts of the sports perimeter LED display.
(1)Mounting legs of the sports stadium perimeter display is a special bracket of the cabinet. This bracket can help the cabinet slope a certain degree. As you know, the audience & the live show's camera is usually much higher than the sports stadium perimeter display's cabinet itself. So if the display cannot slope down a certain degree, then the viewing angle will not be good. In order to let the audience & the live show's camera get a perfect viewing angle, mounting legs of the cabinet is important & the necessary parts of the sports perimeter display.

(2)Soft mask is a special module mask which is different from the common hard mask: it is soft which can protect the player if the player falls on the LED display suddenly. Only the outdoor LED display models: P12, P16, P20, P25 have soft mask. The most common use model is P16 & P20 outdoor LED video display models for the sports stadium perimeter application.

(3)Soft top cover is a special half round cover which has a circle of soft rubber. The main function is also protecting the player if the player falls on the LED display suddenly. All indoor and outdoor models can be equipped with the soft top cover to protect the player.

8. Dot correction is a new technology. After color & brightness dot correction, the color & brightness consistence will be much more improved comparing to the common LED display. Until now, ZDEC, NOVAL, DPSTAR, LINSN all the control system provider try to occupy this market. But none of them have a mature technology with user friendly software and high compatibility. So in the end, this market in China is still a blank. There're more failed cases than successful cases in this aspect. In this aspect, all spend too much money, but not getting a satisfied improving effect. From 2006 till 2011, no good mature dot correction system can be widely used. So if you plan to buy the LED display from China, you'd better not choose this dot correction solution. The key quality depends on the LED chip & the driving IC. As long as we ensure the key components quality is good, the final result will be the best. Dot correction is also wrongly used for some companies who use poor quality LED chip with advanced dot correction system to make the LED display's showing effect be perfect at the beginning. If so, the long term using will be a big problem since the lifetime will be much shorter if using dot correction in this condition.

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

9. Generator, environmental mute ark & power distribution cabinet is the necessary components of the mobile LED display & the sports perimeter LED display which is not easy to get the power. The power of the generator & power distribution cabinet depends on the LED display's power consumption. The bigger the LED display, the higher the power it need. For the environmental mute ark, it is used for reduce the noise of the generator. Because the generator is usually using diesel and the noise is big. So the environment mute ark is very necessary, esp. . for the mobile LED display, sports LED display and rental LED display.

10. Sound box & amplifier is the sound equipment, this is usually need to customize according to the installation site. Some outdoor installation site also need waterproof sound equipment. The power depends on the advertising space. Before buying this sound equipment, we'd better have a detailed talk with the professional sound equipment provider.

11. Multi-function card is also called environment monitor, which can help the LED display screen system achieve many functions, such as automatic false alarms, fire & smoke alarms, brightness adjustment, etc.
Nowadays multi-function card is mainly used for outdoor LED display screen's brightness control: brightness control is needed, esp. . for outdoor LED video display screen since the outside environment brightness level is changing during the daytime. If we don't adjust the brightness according to the environment's brightness, then LED display screen system will not have a perfect viewing effect: in the morning and afternoon time, the LED display will be too bright and harmful to people's eyes, also waste electricity.
There's two ways to achieve the brightness control: manually changing & automatic changing. The automatic brightness changing can adjust the LED display screen system's brightness perfectly according to the environment's brightness level. But the reason why the multi-function card is not widely used is: sometimes, esp. . during the rainy or windy day, the environment's brightness changing is very great. And if the LED display's brightness also changing so greatly according to the environment's brightness, this will even affect the traffic light system. Normally the LED display's brightness can be adjusted better by the software. For the indoor LED display, because the indoor environment's brightness is almost always stable. So the application of the multi-function card is still very limited.

12. Shipping: when we can use air transportation & when we can to use the ocean shipping?
(1) Air transportation is fast, but the air freight is very high. The net weight of the LED display screen is around 45-70KG/SQM (45KG/SQM for aluminum cabinet & 70KG/SQM for iron cabinet); after packing the total gross weight is around 65-95KG/SQM (65KG/SQM for aluminum cabinet & 95KG/SQM for iron cabinet). So you can have an estimate on the general cost. It takes around 5 days from Shenzhen to most main air port in the world.
(2) Ocean shipping is slow, but the ocean shipping fee is much lower, only around 30-150 USD/CBM. It takes around 15-40 days from Shenzhen to most main sea port in the world. The packing size is around 0.4 CBM/SQM. So you can have an estimate on the general cost after you figure out the total packing size.

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn
MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

14. Quality grade & the LED chip (high grade quality with CREE LED chip or middle grade quality with SILAN LED chip?)

1> Cree chip is the first class LED chip in the world which has very high reputation. The characteristic is: high & stable brightness, long lifetime, low brightness depressing rate & most stable brightness level. Quality warranty time is 5 years. For a continuous normal using with CREE LED chip, you can use more than 5 years with no any problems. If you plan to build a LED billboards and plan to use it for more than 5 years, CREE chip will be the best solution. Many new users are not familiar with this aspect and looking for cheap and fine product, in the end only get cheap but not fine product at the beginning. After the new users using other common LED chip and meet much problem, then most of the new users switch for better quality LED billboards. For small projects, this method is okay, since even the 1st LED billboards not working well, the lost is still small. But for big LED billboards projects, it will be a big loss and great tragedy. So the bigger/larger the LED billboards, the better the quality it need. Once a big LED billboards projects were not successful, the new users may even go broke directly.

2> SILAN is a Chinese brand. It is one of the most cost effective solutions in our domestic local market. But the quality is not as high as CREE & Nichia (higher rate of dead lamps & brightness attenuation). Quality warranty time is 3 years. For a continuous normal using with SILAN LED chip, you can use only around 3 years with no much problem. If you plan to build a LED billboards and plan to use it for more than 3 years, SILAN chip will not be your best solution. Many new users are not familiar with this aspect and only looking for good price at the beginning. So they just use SILAN LED chip. What's worse, many companies just using fake SILAN LED chip, this make the poor condition be worse if buying this kind of LED billboards from such irresp. onsible factory. If so, the LED billboards will only using no more than 1 year, even 6 months, then will meet many problems. Such problems will never be fixed since the key components were not good from the beginning.

3>Summary: most suitable will be always the best; but the best will not always be the most suitable. Finding the most suitable solution is always a better idea than finding the best solution. The following aspects need your careful consideration:

(1)Time of ROI (return of investment): any kind of investment need a certain income & profit to maintain & continue, time of the ROI is one of the most key factors when you make the final investment decision.

If the local advertising rate is high and this high advertising rate can ensure your time of ROI within 1 year even choosing the top grade solution, then there's no any doubt for you to choose CREE/Nichia LED chip for this LED display project.

If the local advertising rate is low and this advertising rate cannot ensure your time of ROI within 3 year even choosing the middle grade quality, then there's no any doubt for you to choose SILAN LED chip for this LED display project. In this condition, if using the top grade quality, there will be no any meaning for this investment since the time of ROI is too long. Maybe never withdraw your investment.

So the best is not always the most suitable; the most suitable will always be the best!

Address: ERALED Industry Park, Xincheng Road, Shajing town, Bao an District, Shenzhen, China. URL: www.eraled.biz, Email: manager@eraled.cn MSN:eraleddisplay@hotmail.com,Skype: eraleddisplay, Tel:0086-75527592546, Fax:0086-75527592567

(2)Installation & using condition: generally speaking outdoor using has much higher quality requirement than the indoor using since the outdoor environment is much worse than the indoor environment.
For the outdoor LED display, we'd better using better quality in order meet fewer problems. If for outdoor using, we'd better choosing higher grade quality to get fewer problems.
For indoor LED display, the temperature, humidity condition is quite stable and all aspects much better than the outdoor using condition. In this condition we can just choose the middle grade quality and the quality will still be quite stable since the using environment is good.

(3)Application & using time is also an important factor: if the LED display has to use more than 12 hours a day, then it requires higher quality; but if the LED display only use several hours a days, then a middle grade quality will be quite enough.
For example, if an outdoor fixed installation LED billboards need to use around 15 hours days, 365 days a year, then the quality requirement should be high since the long time continuous using is a very hard burden for the LED display screen system.
If the LED display is for sports stadium using, and need to use only maximum 5 hours one time; 50 days a year(normally there will be less than 50 matches take place in a sports stadium). In this case, a middle grade quality LED display will be quite enough for this application.
Generally speaking, fixed installation LED display has higher quality requirement; rental, mobile, sports LED display has a little lower requirement for the quality.

(3)Resolution (pixel density/pixel pitch): resolution is also an important factor:
For very small pixel pitch: like 3mm, 4mm indoor models;10mm,12mm outdoor models: the resolution is quite high, higher resolution means more LED chips needed for it, cost also very high. In this condition, we'd better just choose a middle grade quality to maintain the total cost not too high.

But for big pixel pitch: like 7.62mm, 10mm indoor models; 16mm, 20mm outdoor models: the resolution is not very high, lower resolution means much less LED chips needed for it, cost also lower. In this condition, we'd better can choose a high grade quality to get longer using time and less future maintenance problems.

North America & Western Europe has the most strict & highest quality standard, there's the reason why Barco, Darktronics sell only top quality LED display with CREE/NICHIA LED chip, but most sales were big pixel pitch models, like 20mm, 25mm outdoor. Even Barco, Darktronics sell mainly 20mm, 25mm big pixel pitch models, but 95% customers still cannot afford the high cost.
China doesn’t have so high advertising rates & so high quality standard as north America & Western Europe: 80% domestic sales of the LED display were using SILAN LED chip with middle grade quality. So in China: 25mm pixel pitch model is almost gone out and nearly no any customer requires that any longer. 20mm pixel pitch is also go out little by little. Now: 16mm pixel pitch becomes the most common use outdoor model & 6mm pixel pitch becomes the most common use

indoor model. 10mm pixel pitch outdoor model & 5mm pixel pitch indoor model were also more and more popular in China.

(4) Max budget: budget is always one of the most important factors. There should be a practical business for any kind of investment, and the max budget should be fixed before taking any action. The cost of the LED display project not only includes the LED display body cost only, but also includes shipping, insurance, maintenance, etc. So we have to leave enough space for future operational cost within the budget. During the finalization, if we find the original budget is not practical, then we have to recheck the whole business plan again. If not, we may lose the whole meaning of the original plan.

15. LED Driving IC: the LED display's driving IC is the 2nd key component of the LED display; the importance is only second to LED chip. The most common use LED driving IC is MBI5024. Now there's a new version MBI5035 which can save up 60% of the power. Another model-MBI5042 is the high grade version which supports dot correction, high fresh frequency & high gray grade. Beside MBI LED driving IC, there's also many other optional brand (eg. YZ5024). But the quality is not as reliable as MBI LED driving IC.

16. Conventional solution & energy saving new solution:

(1) Conventional solution means use the most common use configuration for the LED display, it means using MBI5024/ MBI5042 driving IC with CREE/SILAN LED chip. The power consumption is usually around 200-1000W/SQM for most models of the full color LED display.

(2) Energy saving new solution means use the new energy saving LED driving IC with new energy saving circuit designing which can save 40% energy comparing to the conventional solution(only when the screen work method is static). The new energy saving solution is not only good for saving the electricity cost, but also good for the lifetime of the LED display. Because the lower the power, the lower the heat, lower temperature is good for all the inside electronic components. For the outdoor P16, P20 models, the energy saving is very big-40%, so the electricity saving is also very considerable. If the display's size is very big, then the electricity cost will be a big figure. When the initial budget allowed, then the best solution will be the energy saving solution in most cases.

Energy saving & screen work method relationship	
Static 1/1	40%
Scan 1/2	30%
Scan 1/4	20%
Scan 1/8-1/16	15%