

Eastar

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LED Electronic Display System Design

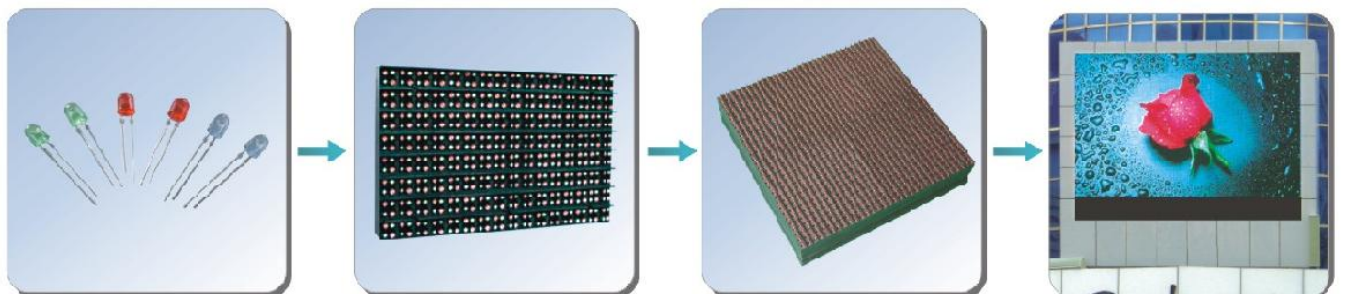
Design organization: Shenzhen Eastar Electronic co.,LTD

Item No.: Mounted LED Display sticking on the wall



1,024mm

768mm	1	2	3	4	3.072m
	5	6	7	8	
	9	10	11	12	
	13	14	15	16	
4.096m					



LED Electronic Display Overview

1. LED Electronic Display System is a multimedia hi-tech product that blended optical, electronic and acoustic signal processing technologies, and it includes the followings devices :

- Display screen
- Control computer and communication system
- Computer and its related peripheral
- Video peripheral
- System software

2. System Features:

- Available for connection to an external scanner, and accepting various pictures, graphs and handwriting inputs.
- Accepting video signal (TV, VCR, DVD), and showing dynamic images, and it also can show graphs and animations.
- The control computer can act as a workstation on network, and read real-time data from specified computer, and show them on its display.
- Various methods for images display, and easy replacement for arranged programs whenever (including play sequence, time length, etc.)

3. Protections for outdoor display

They include waterproof, sun-screen, antistatic, damp proof, anti-freeze (anti-thundering, if necessary) and other features.

4. Major Technical Data

Chapter 1 Specification and main technical index

(1) Construction Description		
Each pixel contain 2 red 1 pure green 1 pure blue total 4 pcs LED Pitch 16mm , resolution 3,906 dots/m ²		
(2) Professional analysis		
No.	Professional analysis content	Analysis item
1	Color matching analysis	In order to make the color matching reach the best white balance effect, the color matching rate of different color brightness is R: G: B/3: 6: 1
(3) Pixel Parameter		
No.	Item	Parameter
1	Pixel pitch	PH16 mm
2	Pixel configuration	2R 1PG 1PB

(4) Tube Chip Parameter				
No.	Item	Wavelength	Brightness	Model No.
1	Red tube chip	620-625nm	400-600mcd	easter-A1
2	Pure green tube chip	520-525nm	1,100-1,600mcd	easter-A1
3	Pure blue tube chip	465-470nm	300-600mcd	easter -A1
(5) Screen Body Technical Parameter				
1	Screen body area	4.096m(L) × 3.072m(H) = 12.58 m ²		
2	Whole screen pixels	Real pixels: 256dots(L) × 192dots(W) = 49,152dots		
		Total: 4 × 4 = 16 cabinets		
3	Cabinet	Pixels: 64dots × 48dots = 3,072dots		
		Size: 1,024mm x 768mm		
4	Display brightness	6,500 CD/M ²		
5	Brightness adjustment	256 grade automatic, 8 grade manual		
6	Drive Mode	Static latching		
7	View Angle	110 degrees (left and right view angle)		
8	View Distance	6-160 meters		
9	Grey Scale	256 grades		
10	Display Colors	16M		
11	Frame rate	60 Hz		
12	Refresh rate	360HZ (Guarantee that the picture will not tingle when the pick up camera is kinescoping)		
13	Control Mode	To be synchronized with computer monitor		
14	Data Transmission	Parallel RS422 mode		
15	Screen Lifespan	>100,000 hours		
16	Blind Spot Rate	≤ 0.0003		
17	Operating Voltage	AC100V ± 240V 50 ~ 60HZ		
18	Screen Body Power Consumption	Max: 1,200w/M ² , Average: 600w/M ²		
19	Color Temperature	6,500K ± 500		
20	Screen body weight	Less than 60KG/ M ² (do not include outer frame)		
21	Control Distance	120 meters (without relay) (optical fiber transmission 500M-10,000M)		
22	System Working Environment Temperature	-20°C ~ +60°C		
23	System Working environment humidity	10% — 95% RH		
24	System Operating Platform	WINDOWS (WIN98、WIN2000、WIN XP) friendly interface, Keep the interface for the secondary development		