

Art – Low Resolution video LED displays

Data Sheet



Applications and Uses



Art[®] is a Low Resolution LED display system that accepts digital video to produce stunning large scale animated graphics and video.

Art uses ArtBoard[®] pcbs to build up freestyle video displays of virtually any size and in any layout imaginable. ArtFrame[®] sub-structure and diffuser system provides ease of installation and the accuracy needed for high quality results.

Together with Light Emissions Brain[®] processor, Art provides designers and facility owners with revolutionary and cost efficient solutions to integrating highest quality video graphics into the fabric of buildings and interior designs.

Uses

- Integrating into walls, ceilings and floors
- Museums, Science Centers
- Retail, Malls, Restaurants
- Corporate, Exhibitions
- Theme Parks, Cruise Ships
- Interior Design

Features¹

- Mixed resolutions in same display
- Brightness control on pcb and global level
- Ambient Brightness Regulation
- Emergency ON state

Overview

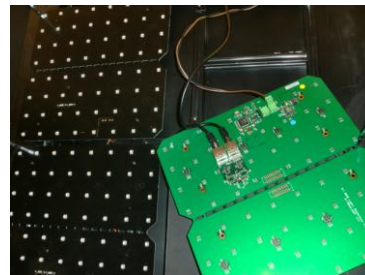
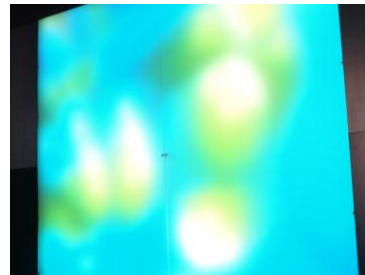
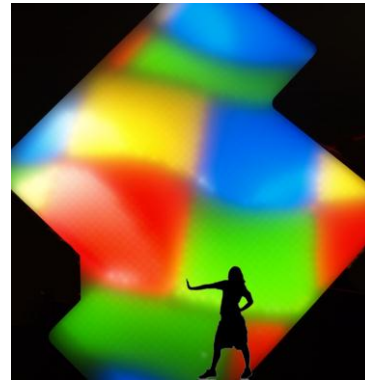
- Three resolutions; 1"¹, 1 ½" and 3" (25mm¹, 37mm and 75mm)
- High power and full color LEDs
- Full speed digital video input
- Ease and speed of installation
- ArtFrame[®] sub-structure and diffuser system

- Loss of Input state
- Internal Video
- Gamma Correction
- 48 bit color depth

¹ Available as staged releases to be announced

ArtBoard Technical Data

	ArtBoard 37	ArtBoard 75
Physical		
Pixel Pitch	1.46in (37mm)	2.95in (75mm)
Pixel Layout on Board	8 x 8	4 x 4
Full Board Dimensions	11.4in x 11.4in, mounted on 11.8in pitch (290mm x 290mm, mounted on 300mm pitch)	
Half Board Dimensions	11.4in x 5.7in (290mm x 145mm)	
PCB corner / midline Bezels	0.6in (15mm)	1.2in (30mm)
Optical		
Resolution	66 px/ft ² (711 px/m ²)	17 px/ft ² (178 px/m ²)
Colours	16 million, 24 bit color	
LED refresh rate	300 Hz	
Luminescence 100% white	1600 nits	178 nits
Color depth	16-bit R, G, B, total 48-bit	
Electrical		
Power per pcb	18W	5W
Power per ft ² / m ²	18W / 200W	5W / 55W
Voltage input	5.0 – 24.0V	
PCB power wiring	Two wires for +V and ground. Daisy Chain between pcs up to max 12A per daisy chain	
PCB power input connector	Two part screw terminal. Wire size up to 11AWG, 4mm ² , Daisy Chain output connector	
ArtBoard Data		
Display Data Source	Brain video processor	
Data wiring from Brain	Cat5e UTP daisychained	
AB Driver Data	Cat5e STP daisychained	
Brain video processor		
Producer [®]	PC program for configuration, control and back-up	
Video input	DVI-D up to 1920x1200 resolution	
Max System Latency	2 frames	
Max No. Pixels per Brain	19,600	
DVI connections	DVI-D input and loop-out connectors	
Display connections	2 x RJ45 for to and return from the display	
Control connections	USB-A on front panel, USB-B on rear panel	
Other	DB-9 connector for:-	
	<ul style="list-style-type: none"> • Ambient Brightness Regulation • External ON • Internal Video control 	



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