

# Full Color LED Video Displays



University of Arizona



Ohio State University

Full color LED video displays and scoreboards can be used as a standalone unit or combined with numeric or single-color LED displays for added impact. Video boards display full color scores, text, graphics, animations, and logos for multiple sports.

These boards are suitable for indoor and outdoor use.

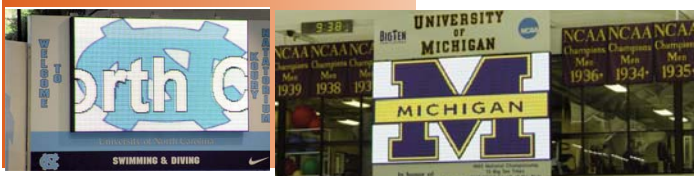
CTS can provide a complete deluxe standard size or custom video display for your facility. We offer a comprehensive solution, including: assistance with facility design, architectural guidelines, consulting during construction, project management, installation, operator training, post sales support, on-site service, game day management, and maintenance.

With thousands of installations worldwide, you can count on ColoradoTime Systems' professional staff to assist you every step of the way.

Our full color video displays offer over 1 billion colors and 4 levels of brightness control. In addition, each unit is modular and either front- or rear-accessible for easy maintenance of your equipment.

Often overlooked is the ability to use your display to generate revenue for your organization. Selling advertising or offering sponsorship opportunities on the board can pay for your board and put money in your pocket.

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## Indoor Full Color Specifications

Video Processing	10-bit (1.07 Billion Colors)
Dimming Capability	4 Levels of Brightness Control
Color Temperature	5,500 K - 7,500 K
Gamma Correction	Yes
LED Lifetime	80,000+ Hours
Display Intensity Range	250 - 2,000 nits
Viewing Angle Horizontal/Vertical	140 degrees/ 70 degrees
Contrast Ratio	1,000 : 1
Refresh Rate (Hz)	300
Service Access	Front or Rear
Humidity Tolerance	0% - 95%
Operating Temperature	-10 C - 40 C (14 F - 105 F)

Pixel Center to Center Spacing (mm)	12	18	23	30	35
Pixel Configuration	1R, 1G, 1B	1R, 1G, 1B	1R, 1G, 1B	1R, 1G, 1B	2R, 2G, 2B
Basic Module (HxW)	16 x 16	16 x 16	8 x 16	8 x 8	8 x 8
Panel Pixel Configuration (HxW)	48 x 48	48 x 64	32 x 48	32 x 32	16 x 32
Panel Dimensions (HxW)	576 x 576 mm	864 x 1152 mm	736 x 1104 mm	960 x 960 mm	560 x 1120 mm
	22.68" x 22.68"	34.02" x 45.35"	28.98" x 43.46"	37.79" x 37.79"	22.05" x 44.09"
Pixels per Square Meter	6,889	3,025	1,849	1,089	784
Pixels per Square Foot	625	256	169	100	64
Power per Panel (Peak, Watt)	250	300	300	400	300
Weight per Panel (Kg)	12	34	28	32	22
Weight per Panel (lbs)	27	75	62	71	49
Minimum Viewing Distance (m)	6	9	11.5	15	17.5
Minimum Viewing Distance (ft)	20	30	38	49	57

## Outdoor Full Color Specifications

Video Processing	10-bit (1.07 Billion Colors)	
Dimming Capability	4 Levels of Brightness Control	
Color Temperature	5,500 K - 7,500 K	
Gamma Correction	Yes	
LED Lifetime	80,000+ Hours	
Display Intensity Range	812 - 6,500 nits	
Viewing Angle Horizontal / Vertical	140 degrees / 70 degrees	
Contrast Ratio	1,000 : 1	
Refresh Rate (Hz)	300	
Service Access	Rear	Front or Rear
Humidity Tolerance	0% - 95%	
Operating Temperature	-10 C - 50 C (14 F - 120 F)	

Pixel Center to Center Spacing (mm)	12	18	23	30	35
Pixel Configuration	1R, 1G, 1B	1R, 1G, 1B	1R, 1G, 1B	2R, 2G, 1B	3R, 2G, 2B
Basic Module (HxW)	16 x 16	16 x 16	8 x 16	8 x 8	8 x 8
Panel Pixel Configuration (HxW)	48 x 48	48 x 64	32 x 48	32 x 32	32 x 32
Panel Dimensions (HxW)	576 x 576 mm	864 x 1152 mm	736 x 1104 mm	960 x 960 mm	1120 x 1120 mm
	22.68" x 22.68"	34.02" x 45.35"	28.98" x 43.46"	37.79" x 37.79"	44.09" x 44.09"
Pixels per Square Meter	6,889	3,025	1,849	1,089	784
Pixels per Square Foot	625	256	169	100	64
Power per Panel (Peak, Watt)	500	1250	650	500	650
Weight per Panel (Kg)	20	55	45	50	55
Weight per Panel (lbs)	45	122	100	111	122
Minimum Viewing Distance (m)	6	9	11.5	15	17.5
Minimum Viewing Distance (ft)	20	30	38	49	57