



Detailed Specification Sheet

16MM COLOR LED SIGN

Standard Watchfire Features

Application	Advertising and branding
Module Type	Smart Module – fully self contained
LED Encapsulation	Fully Encapsulated with unique bed of silicone
Compliance Information	UL48, CUL48, UL Energy Verified - Green Leaf
Environmental Rating	IP 65 per face
Lifetime (1/2 Brightness)	100,000 hours
Ventilation	Unique cross ventilation and fans
Power	120 or 240 volt single phase 60Hz
Cabinet Construction	Extruded aluminum, precision mitered solid weld corners
Cabinet Depth	Front-vent signs - 5"/101.6mm; Cross-vent & Rear-vent signs - 8"/203mm
Service Access	Front
Software	Proprietary Ignite®. Integrates with digital signage players via Ignite live video option.
Cabinet Temperature Rating	-40° F to +140° F
Electronics Temperature Rating	-40° F to +185° F
Thermal Control	Sign automatically shuts down if over 65° C (144°F).
Color Temperature	6500° Kelvin fixed (XVS only)
Dimming	Automatic Software: 4 steps. Photocell: 1% to 100% in 1% increments with software backup.
Electronic Validation	Accurate Proof of Performance on XVS Signs
LED Type	Nichia, Cree
Security	Security hasp & password protected
User Interface	Web & stand alone PC application
Graphics Compatibility	Import capability from most AVI sources. BMP, GIF, JPG and other graphic file types.
Video Compatibility	PAL, NTSC, Live Video Capable on XVS
Video Formats	With Ignite 11.1 most AVI & WMV formats. Options include composite, component, S-Video, VGA, DVI, HDMI.
Weatherproofing	Tested per ASTM B-117 that exposes test materials to a continuous, 95°F, 7.2 ph salt fog, for 2,000 hours.
Self-Diagnostic Monitoring & Reporting	Advanced on-demand or automated diagnostics available

Technical Specifications

	W-Series	XVS Series
Model Number	W16mm	XVS 16mm
Pixel Pitch	16.93mm (0.667")	16.93mm (0.667")
Optimized Pixel Pitch	True 16mm	True 16mm
Pixel Density Per Sq. Ft.	324	324
Pixel Density Per Sq. Meter	3487.5	3487.5
LEDs Per Sq. Ft.	972	972
LEDs Per Sq. Meter	10462.5	10462.5
Pixel Configuration	True pixel, 1R, 1G, 1B	True pixel, 1R, 1G, 1B
Max Brightness	10,000 Nits	10,000 Nits
Matrix Configuration	18 x 18 pixels	18 x 18 pixels
Module H x W	12" x 12"	12" x 12"
Horizontal Viewing Angle	140°	140°
Vertical Viewing Angle	70°	70°
Weight Per Module	8" cabinet - 4.25 lbs; 5" cabinet - 3.95 lbs	8" cabinet - 4.25 lbs; 5" cabinet - 3.95 lbs
(Video) Processing	Not Applicable	Video frame grabber on live video option
Color Processing	12 bit	16 bit
Calibration	Digit Batch Inspection— Pixel to Pixel and Module to Module	Whole-Sign Calibration: color and brightness
Minimum Viewing Distance	50 ft	50 ft
Live Video Capable	No	Yes
Video Frame Rate	Up to 30 FPS	Up to 60 FPS
Color Capability	1.15 quintillion	4.72 sextillion
Character Height	4" & larger	4" & larger