

VANGUARD® VF-2420-48x320-20-RGB

Full-Color (RGB)

Display Technology	High-intensity LED
Cabinet Access	Front access
Cabinet Enclosure	NEMA 3R
Face Panel	Aluminum mask over polycarbonate face panel
Weight	1230 lbs.
Dimensions ¹	4'7" x 22'1" x 1'4"
Operating Temp. Range	-30° F to +165° F (-34° C to +74° C)
Humidity Range	0 to 99%, non-condensing
Ventilation	Pressurized, forced-air ventilation system
Controller Location	Sign cabinet or equipment cabinet
Display Type	Full-matrix (variable text and graphics)
Active Area	3'3" x 21'8"
Top/Bottom Border Width	2-5/8" (67 mm)
Left/Right Border Width	2-5/8" (67 mm)
Pixel Matrix	48 rows x 320 columns
Pixel Pitch	20 mm (.81")
Viewing Distance	300' (91 m) using 6" characters
Sign Intensity	12,400 candelas/m ² minimum (white)
LED Color	Full color (32,000 distinct colors using red, green and blue LEDs)
Power Requirements	120/240 VAC, single-phase power (3-wires plus ground)
Communications Protocol	NTCIP 1203 v02
Communications Options	Cellular, fiber optic, direct Ethernet and radio Ethernet
Structural Design Standard	AASHTO
NEMA Standards	NEMA TS 4 Section 2 Environmental Requirements

Power Specifications

Model	Viewing Angle (HxV)	Amps Per Leg ³	Typical Power ⁴
VF-2420-48x320-20-RGB	30° x 30°	11	1061 W

Sample Character Capacity²

Character Height	Lines/ Characters	Example Font Size	Interline Spacing	Character Spacing
18"	1/17	23x15_3	12	4
12"	2/24	15x10_2	8	3
9"	3/32	12x8_2	6	2
6"	5/53	7x5_1	4	1

NOTES

1. Display cabinet depth measurement includes "Z" mounting brackets on the rear of the cabinet.
2. Many other font sizes are available.
3. Amps per leg calculation is based on the maximum load of a typical DMS. This value is measured for a 120/240 3W+G system and will vary with auxiliary options installed in the DMS.
4. Typical power includes a partially-illuminated LED sign (38% of the pixels at full intensity), the sign controller and ventilation system.
5. Sign front face paint color is semi-gloss black. Other sides are mill finish aluminum.
6. With the continuous improvement of all Daktronics products, the features and measurements on this page are subject to change without notice.
7. The product illustration on this page is for conceptual purposes only and may not represent the actual dimensions of the specified display.

