

# Infinity 16mm RGB Video Display



Reference Model  
 4'-8" x 8'-10"  
 80 x 160 resolution

Optec's premier Infinity video displays offer the ultimate in outdoor LED display performance. Superior video processing delivers lifelike 3D quality images, crystal clear resolution and brilliant, vibrant colors. Rugged IP65 rated aluminum enclosures provide solid protection against environmental contaminants and harsh weather conditions.

Designed for close viewing, the Infinity 16mm RGB display is capable of HD quality video and brilliant color, even in direct sunlight. Suitable for live video, outdoor advertising, sports or commercial applications.

Advanced options such as redundant data signals, self-diagnostics system, backup power supplies and pixel level screen calibration are available.

## Specifications

Color Processing Capability.....	16 bit, 281 trillion colors
Viewability.....	140 degrees horizontal
Graphic Capability.....	Text, animation, pictures and video
Live Video Formats.....	Composite, S-Video (optional upgrade)
Control Software.....	Media Editor Package
Display Dimming.....	100 levels
Scan Rate.....	300+Hz (Variable)
Contrast Ratio.....	1,000:1
Frame Rate.....	60 frames per second
Power.....	120 / 240 AC, single phase
Average LED Life.....	100,000 hrs
Service Access.....	Front (standard) or rear (optional)
Cabinet Construction.....	Aluminum (Corrosion Resistant)
Weatherproofing (Front/Rear).....	IP65 / IP54
Contrast Enhancement.....	LED louvers
Manufacturing Quality Standard....	ISO 9001
UL Listed.....	ETL / UL48
Product Warranty.....	5 year parts & factory labor

## Optec Advantages

- ✦ **Windows PC controller for optimal video performance**
- ✦ **Super bright LEDs bin selected for consistency in wavelength and brightness**
- ✦ **Waterproof IP65 rated corrosion resistant aluminum enclosures**
- ✦ **Automatic brightness adjustment for optimum visibility and efficiency**
- ✦ **ISO:9001 manufacturing quality standards**
- ✦ **Easy to use control software**
- ✦ **5 Year warranty standard**

## Model INF-16-RGB (16mm Pitch)



### Model Specifications

Physical Pitch	16mm
LEDs / Pixel	(3) 1R-1G-1B
LED Density	11,719 LEDs/M <sup>2</sup>
Calibrated Brightness	12,000 NITs
Module Matrix	8(h) x 16(w)
Max.Watts / Pixel	0.365w
Minimum Character Height	4.4"

### Communications

- Wireless Ethernet
- Ethernet
- Fiber Optic
- Power Line Communications
- Broadband Internet
- Live Video Feed (optional)

Minimum Viewing Distance = 32'

Diode Density - 1,089 LEDs / sq. ft.

Media Editor Software Suite



<b>Cabinet Width (ft.)</b>	3.8	4.7	5.5	6.3	7.2	8.0	8.9	9.7	10.5	11.4	12.2	13.1	13.9	14.7	15.6	16.4	17.3	18.1	18.9	19.8	20.6	21.5
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<b>Pixel Width</b>	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	400
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**Cabinet Height (ft.)**

**Pixel Height**

### Matrix / Dimension Calculator

Use this chart to convert display dimensions (cabinet height & width) to pixel matrix values.

Example : 6.3' x 12.2' = 112 x 224 Matrix

Watts / Pixel = 0.365

Calculating max. watts per face = Pixel height x pixel width x watts per pixel  
(For the display example above - 112 x 224 x 0.365 = 9,157.12 max. watts per face)

3.0	48
3.4	56
3.8	64
4.2	72
4.7	80
5.1	88
5.5	96
5.9	104
6.3	112
6.8	120
7.2	128
7.6	136
8.0	144
8.4	152
8.9	160
9.3	168
9.7	176
10.1	184
10.5	192
11.0	200
11.4	208
11.8	216

\* All product specifications subject to change without notice.