info ring™

the first circular digital sign

Technical Specifications

Version 1.1 | January 2022

Advanced Application Design, Inc.

1 Description

InfoRing™ is a fully circular digital signage platform, the first of its kind for the transportation sector. InfoRing™ delivers crisp images, multi-lingual text, smooth animations and video content. The fully circular footprint, with optional LED band, stands-out even in high traffic areas.

2 Display Characteristics

InfoRing™ utilizes a native circular color TFT LCD panel with an efficient LED backlight system. InfoRing™ is equipped with an optional RGB LED light ring around the display's edge, capable of displaying both solid colors and flashing or rotating patterns. Synchronize LED's with display content to capture attention and reinforce important messages.

Property	Value	Remarks
Display Count	2	[**Optional**] Single or Dual-Sided Displays
Resolution	848 x 848 Pixels	Horizontal x Vertical
Number of Colors	$16.7x10^7$	
Active Area Size	600.4 x 600.4 mm [23.6 in]	Diameter
Brightness	1000 Nits	Dimmable down to 0
RGB LED Count	2048 per side	[**Optional**]
RGB LED Brightness	2500 Nits	[**Optional**] Dimmable down to 0
Refresh Rate	60 Hz	

Figure 1.1 Display Properties

3 Physical Characteristics

Property	Value	Remarks
Overall Dimensions	695 x 101 mm	Diameter x Depth [Mounting Hardware Excluded]
Power Consumption	130 Watts	At Maximum Brightness
Weight	49 lbs	Dual Sided Configuration with Mounting Hardware
Power Input	120 VAC	
Network Interface (WiFi)	802.11AC, 2.4 / 5GHz	
Network Interface (Wired)	RJ45, 1Gbps	

Figure 1.2 Physical Properties

4 Installation and Operation

4.1 Installation

InfoRing™ features an embedded computing platform which enables faster deployment and easy installation. InfoRing™ connects to standard 120VAC service for power and supports both Ethernet or WiFi for data. InfoRing™ can be installed in any orientation, and supports mounting to a variety of surfaces and structures including ceiling beams, wallboards, and structural tubing.

4.2 Operating

InfoRing™ is designed for around-the-clock operation with 100,000 hour MTBF rating on the displays and computing components. An optional ruggedized enclosure enables InfoRing™ to operate outdoors in all weather conditions. The 1000 Nits backlight ensures the display remains readable even in direct sunlight.

5 Content Management

5.1 infoctl™

Managing InfoRing™ content is quick and easy with the infoctl™ content management platform. Embedded within each InfoRing™ device, infoctl™ gives you the ability to manage content directly out of the box from any web browser. infoctl™ is built from the ground up to support round displays.

infoctl™ features:

- Place and adjust graphic content such as images, videos, and multi-lingual text
- Preview final layouts exactly as they appear on InfoRing
- Both timer and calender-based content scheduling
- Automatic orientation and centering

5.2 Info→Connect™

Manage a group of InfoRing™ devices and synchronize content to real-time events with the Info→Connect™ platform. Cloud-based and highly secure, Info→Connect™ is built to scale with your needs.

Info→Connect™ features:

- All design, preview, and scheduling features from infoctl™
- User account management and permissions
- Trigger content in real-time from external or facility events
- External data feeds such as weather and news
- Device monitoring with health, status, and configuration control
- Assign InfoRings™ to definable organizations

6 Mounting

The InfoRing™ mount base features x6 holes which accommodate standard 1/4-20 hardware.

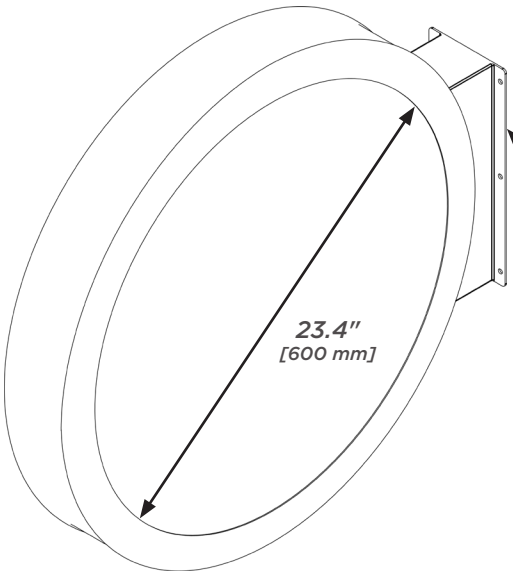

Figure 1.3 Horizontal Orientation

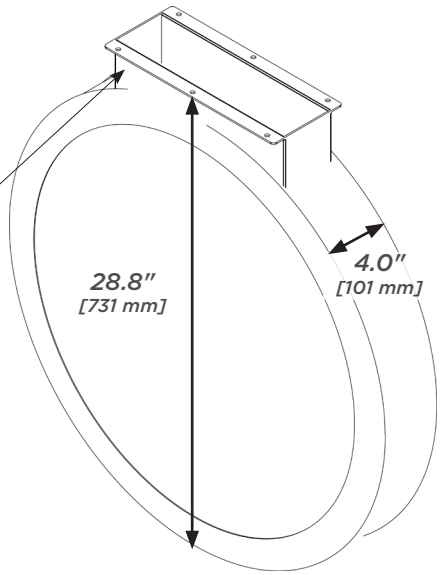

Figure 1.4 Vertical Orientation

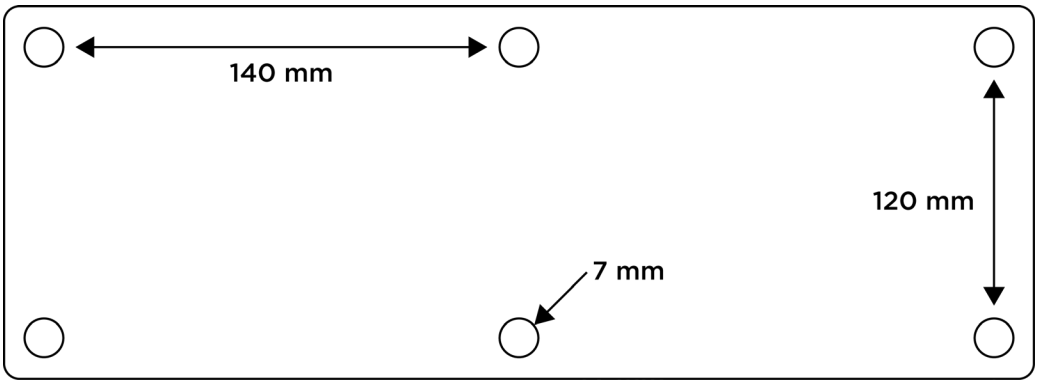

Figure 1.5 Mount Base Hole Template