

Sunlight-Readable Outdoor Digital LCD Displays

# CYRAQ<sup>®</sup> 1000 SERIES

## Our Full Line of Outdoor Digital Displays



32"



46"



15"



40"



52"

Soon to be available in 65 Inches!

### High-Performance Outdoor Signs

The **CYRAQ 1000** series of digital signs provides reliable, cost-effective LCD solutions for all-weather outdoor installations. Made from heavy-gauge stainless steel, our rugged enclosures stand up to the most demanding weather conditions, year after year.

### Mastering the Physics of Light

Ever notice how hard it is to read your cell-phone screen in direct sunlight? The same reflections obscure most LCDs in direct sunlight or very bright interior light. Our proprietary passive display-enhancement technology reduces both reflected light and power consumption. The resulting image is equivalent to conventional air-gap displays rated at 1500 to 2000 nits brightness. Your message remains clear and easy to read, even when viewed in direct sunlight.

### Green Design Saves Money Every Day

Our passive enhancement technologies reduce backlight energy consumption by 30 to 40% while maintaining equivalent readability. That also results in a similar reduction in required cooling power. You gain twice, and pay less for power every day.

### A Size for Every Need

Our 15" digital signs are ideal for use as toppers or wings on static signs, and easily mount in arrays for maximum impact. They not only provide feedback to customers, they advertise specials or overstocks to help upsell, cross-sell, and speed customer decisions.

The larger sizes can all stand on their own as dynamic digital displays, in either portrait or landscape orientation. The 32" to 46" signs can also be toppers or wings for existing static signs. Toppers and wings on existing signs can be a cost-effective way to test potential gains in order size and throughput. The 52" and 65" units have narrow bezels, so in addition to standing alone, they are good candidates for video walls and multi-LCD displays.

### Why CyberResearch?

Since 1983, CyberResearch, Inc. has specialized in computer systems for severe industrial environments. We have provided rugged displays for demanding applications in off-shore drilling rigs, oil and gas pipe lines, industrial process control, R&D labs, NASA, nuclear power plants, and military installations worldwide. To date we have shipped over 10,000 rugged displays. More than 2,000 are members of our stainless steel CyRAQ series.

A major part of our industrial experience has been devoted to providing custom products that meet special needs. If you don't see exactly the display you need, call our friendly application engineers. They look forward to giving you a competitive edge.

## Specifications

### DISPLAY

#### Input Options

HDMI, DVI, VGA, component, composite, S-video  
Projected-capacitance touchscreen optional

#### Brightness

Readable in Direct Sunlight.

CyberResearch's unique *AR-Bonding* display-enhancement technology reduces excessive light reflections and provides sunlight readability equal to or better than a conventional air-gap display with a 1500 to 2000 nit backlight.

#### Screen Protection Sizes

Vandal-resistant glass with anti-reflective coating  
15, 32, 40, 46, 52, and 65 inches, diagonal

### CHASSIS

#### External Enclosure

Heavy-duty 304 stainless steel.  
Corrosion-resistant external enclosure built to survive ocean spray, road salt, and other hazards.

#### Internal Enclosure

Powder-coated aluminum.  
NEMA 4 enclosure, suitable for washdown. Protects LCD and electronics against snow, rain, dust, hose-directed water, insects, and vermin.

#### Operating Temperature

-32 to 122°F (0 to 50°C)  
Heater available for operation to -40°F (-40°C)

#### Mounting

Pylon, wall, or custom mounting stand in landscape or portrait orientation.

**CyberResearch** Inc.

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52" Sunlight-Readable Outdoor Digital Display

# CYRAQ<sup>®</sup> 1052SA



Screen image courtesy of Screenfeed.

52" Full High Definition (1080p)  
All-Weather Outdoor Digital Display

## Interactive 52 Inch Outdoor Digital Signage Display

Need lots of room to tell your story? The new CyRAQ gives you plenty of room in brilliant full high-definition color and motion to grab your customers' attention. An optional interactive touchscreen helps customers respond without needing personal assistance from your staff. To increase sales and throughput, offer your drive-thru customers reliable all-weather sunlight readability

## Portrait, Landscape, and Video-Wall Mountings

Constructed from 304 stainless steel, our rugged external enclosures stand up to the most demanding temperatures and weather conditions. These displays can be mounted in portrait or landscape orientation in groups of one, two, or three displays. We welcome requests for custom mountings such as video walls, higher or lower heights, or other variations that meet the special needs of your location and your customers.

## Specifications

### DISPLAY

<b>Part Number</b>	CyRAQ 1052SA
<b>Screen Size</b>	52" Diagonal
<b>Screen Image</b>	Full High Definition 1080p, 1920 x 1080 @ 16 M colors
<b>Input Options</b>	HDMI, DVI, VGA, component, composite, S-video Projected-capacitance touchscreen optional
<b>Brightness</b>	Readable in Direct Sunlight. CyberResearch's unique <i>AR-Bonding</i> display-enhancement technology reduces excessive light reflections and provides sunlight readability equal to or better than a conventional air-gap display with a 1500 to 2000 nit backlight.
<b>Contrast</b>	4000:1
<b>Screen Protection</b>	Vandal-resistant laminated glass with anti-reflective coating
<b>Viewing Angle</b>	178° (horizontal and vertical)
<b>Scanning Frequency</b>	31.5~91.1 kHz (horiz.); 58~85 Hz (vert.)
<b>Response Rate</b>	8 ms (gray-to-gray, typical)
<b>Controls</b>	Remote OSD controls

### PHYSICAL

<b>Dimensions*</b>	28"W x 56"H x 12"D (660 x 1422 x 305 mm)
<b>Weight*</b>	250 lbs. (114 kg) *Not including optional pylon mounting stand

### CHASSIS

<b>External Enclosure</b>	Heavy-duty 304 stainless steel. Corrosion-resistant external enclosure built to survive ocean spray, road salt, and other hazards.
<b>Internal Enclosure</b>	Powder-coated aluminum. NEMA 4 enclosure, suitable for washdown. Protects LCD and electronics against snow, rain, dust, hose-directed water, insects, and vermin.
<b>Operating Temperature</b>	-32 to 122°F (0 to 50°C) Heater available for operation to -40°F (-40°C)
<b>Mounting</b>	Pylon, wall, or custom mounting stand in landscape or portrait orientation.

### POWER SUPPLY

<b>Power Supply</b>	90~264 VAC, 50/60 Hz
<b>Power Consumption</b>	235~360 W (typical), <40 W in standby mode
<b>Thermal Mgmt. System</b>	120 W, (Extended temperature range option 240 W)
<b>Green Design</b>	<i>AR-Bonding</i> cuts power consumption by 30~40%.

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## 46" Sunlight-Readable Outdoor Digital Display

# CYRAQ<sup>®</sup> 1046SA

### 46" Full High Definition (1080p) All-Weather Outdoor Digital Display

#### High-Performance Outdoor Digital Signage

The **CYRAQ 1046SA** provides a reliable, cost-effective LCD display for use in outdoor industrial monitor, outdoor video, and digital signage installations. Constructed from heavy-gauge stainless steel, our rugged enclosures are designed to stand up to the most demanding temperatures and weather conditions, year after year. Portrait, landscape, and multiunit mountings are available, and requests for custom mountings are welcome.

#### The Difference is Clear, Even in Direct Sunlight

The new CyRAQ 1000 Series 46-inch display provides full High Definition 1080p resolution. Your customers experience extremely clear, sharp, high contrast sunlight readable images at even in direct sunlight. Our unique *AR-Bonding™* image-enhancement feature nearly eliminates light reflections. You get sunlight readability better than a conventional air-gap display design with a 1500 to 2000-nit backlight.

#### Green Design Saves Money Every Day

Because our passive enhancement approach slashes reflections, we can reduce backlight energy consumption by 30 to 40% for equivalent readability. Reduced energy consumption means reduced cooling requirements. You gain twice, and pay less for power every day.



Screen image courtesy of Wireless Ronin Technologies, Inc.

## Specifications

### DISPLAY

<b>Part Number</b>	CYRAQ 1046SA
<b>Screen Size</b>	46" Diagonal
<b>Screen Image</b>	Full high definition 1080p; 1920 x 1080 pixels @ 16 million colors
<b>Input Options</b>	HDMI, VGA, DVI, component, composite, S-video Projected capacitance touchscreen optional
<b>Brightness</b>	1500 nits, Readable in Direct Sunlight CyberResearch's unique <i>AR-Bonding™</i> display-enhancement technology reduces excessive light reflections and provides sunlight readability better than a conventional air-gap display with a 1500 to 2000 nit backlight.
<b>Contrast</b>	4000:1
<b>Screen Protection</b>	Vandal-resistant laminated glass with anti-reflective coating
<b>Viewing Angle</b>	178° (horizontal and vertical)
<b>Response Rate</b>	8.5 ms (gray-to-gray)
<b>Controls</b>	Remote OSD controls

### PHYSICAL

<b>Dimensions*</b>	26"W x 48"H x 12"D (660 x 1219 x 305 mm)
<b>Weight*</b>	200 lbs. (91 kg)

\*Not including optional mounting stand

### CHASSIS

<b>External Enclosure</b>	Heavy-duty 304 stainless steel Corrosion-resistant external enclosure built to survive ocean spray, road salt, and other hazards.
<b>Internal Enclosure</b>	Powder-coated aluminum. NEMA 4 enclosure, suitable for washdown. Protects LCD and electronics against snow, rain, dust, hose-directed water, insects, and vermin.
<b>Operating Temperature</b>	-32 to 122°F (0 to 50°C) Heater available for operation to -40°F (-40°C)
<b>Mounting</b>	Pylon, wall, or custom mounting stand in landscape or portrait orientation.
<b>POWER SUPPLY</b>	
<b>Power Supply</b>	90~240 VAC, 50/60 Hz, ±3 Hz
<b>Thermal Mgmt. System</b>	120 W (Extended temp. range option 240 W)
<b>Green Design</b>	<i>AR-Bonding</i> cuts power consumption by 30~40%

We reserve the right to make product improvements at any time without prior notice.

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40" Sunlight-Readable Outdoor Digital Display

# CYRAQ<sup>®</sup> 1040sc

40" Full High Definition (1080p)  
All-Weather Outdoor Digital Display

## High-Performance Outdoor Digital Signage

The **CYRAQ 1040sc** provides a reliable, cost-effective LCD display for use in outdoor industrial monitor, outdoor video, and digital signage installations. Constructed from heavy-gauge stainless steel, our rugged enclosures are designed to stand up to the most demanding temperatures and weather conditions, year after year. Portrait, landscape and multiunit mountings are available, and requests for custom mountings are welcome.

## The Difference is Crystal Clear, Even in Direct Sunlight

The new CyRAQ 1000 Series 40-inch display provides full High Definition 1080p resolution. Your customers experience extremely clear, sharp, high contrast sunlight readable images at even in direct sunlight. Our unique *AR-Bonding™* image-enhancement feature nearly eliminates light reflections. You get sunlight readability equal to or better than a conventional air-gap display design with a 1500 to 2000-nit backlight.

## Green Design Saves Money Every Day

Because our passive enhancement approach slashes reflections, we can reduce backlight energy consumption by 30 to 40% for equivalent readability. Reduced energy consumption means reduced cooling requirements. You gain twice, and pay less for power every day.



Screen image courtesy of X20 Media, Inc.

## Specifications

### DISPLAY

<b>Part Number</b>	CYRAQ 1040 SC
<b>Screen Size</b>	40" Diagonal
<b>Screen Image</b>	Full high definition 1080p; 1920 x 1080 pixels @ 16 million colors
<b>Input Options</b>	HDMI, VGA, DVI, component, composite, S-video Projected capacitance touchscreen optional
<b>Brightness</b>	Readable in Direct Sunlight CyberResearch's unique <i>AR-Bonding™</i> display-enhancement technology reduces excessive light reflections and provides sunlight readability equal to or better than a conventional air-gap display with a 1500 to 2000 nit backlight.
<b>Contrast</b>	3000:1
<b>Screen Protection</b>	Vandal-resistant laminated glass with anti-reflective coating
<b>Viewing Angle</b>	178° (horizontal and vertical)
<b>Scanning Frequency</b>	15~82 kHz (horizontal); 49~90 Hz (vertical)
<b>Response Rate</b>	8 ms (gray-to-gray)
<b>Controls</b>	Remote OSD controls

### PHYSICAL

<b>Dimensions*</b>	42.2"W x 21.7"H x 11.5"D (1070 x 552 x 291 mm)
<b>Weight*</b>	150 lbs. (68 kg)

\*Not including optional mounting stand

### CHASSIS

<b>External Enclosure</b>	Heavy-duty 304 stainless steel Corrosion-resistant external enclosure built to survive ocean spray, road salt, and other hazards.
<b>Internal Enclosure</b>	Powder-coated aluminum. NEMA 4 enclosure, suitable for washdown. Protects LCD and electronics against snow, rain, dust, hose-directed water, insects, and vermin.
<b>Operating Temperature</b>	-32 to 122°F (0 to 50°C) Heater available for operation to -40°F (-40°C)
<b>Mounting</b>	Pylon, wall, or custom mounting stand in landscape or portrait orientation.
<b>POWER SUPPLY</b>	
<b>Power Supply</b>	90~240 VAC, 50/60 Hz, ±3 Hz
<b>Thermal Mgmt. System</b>	120 W (Extended temp. range option 240 W)
<b>Green Design</b>	<i>AR-Bonding</i> cuts power consumption by 30~40%

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## 32" Sunlight-Readable Outdoor Digital Display

# CYRAQ® 1032SA

## 32" High Definition (WXGA) All-Weather Outdoor Digital Display

### High-Performance Outdoor Digital Signage

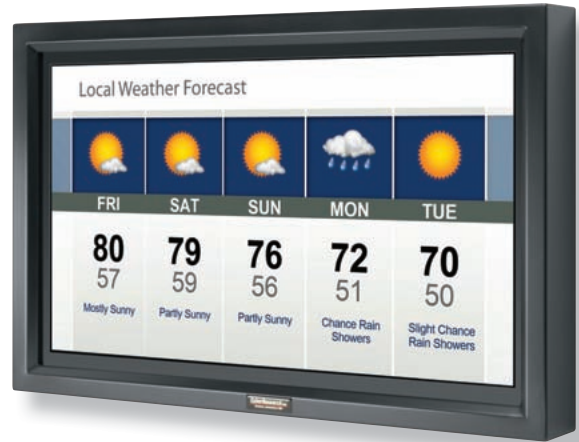
The new **CYRAQ 1032SA** outdoor digital sign is a reliable, cost-effective LCD display that is ideal for use as a topper or wing on existing static signs. Constructed from heavy-gauge 304 stainless steel, our rugged outer enclosure is designed to resist corrosion and stand up to the most demanding temperatures and weather conditions, year after year.

### The Difference is Crystal Clear, Even in Direct Sunlight

The new CyRAQ 1000 Series 32-inch display achieves extremely clear, sharp, high contrast sunlight readable images at full High Definition 1080p resolution even when viewed in direct sunlight. CyberResearch's unique *AR-Bonding™* display enhancement technology reduces excessive light reflections and provides sunlight readability equal to or better than a conventional air-gap display design with a 1500 to 2000 nit backlight.

### Green Design Saves Money Every Day

Our passive enhancement technologies reduce backlight energy consumption by 30 to 40% while maintaining equivalent readability. That also results in a similar reduction in required cooling power. You gain twice, and pay less for power every day.



Screen image courtesy of Screenfeed.

## Specifications

### DISPLAY

<b>Part Number</b>	CYRAQ 1032SA
<b>Screen Size</b>	32" Diagonal
<b>Screen Image</b>	1366 x 768 pixels (WXGA) @ 16 million colors
<b>Input Options</b>	VGA, DVI, composite, S-video Projected capacitive touchscreen optional
<b>Brightness</b>	Readable in Direct Sunlight CyberResearch's unique <i>AR-Bonding™</i> display-enhancement technology reduces excessive light reflections and provides sunlight readability equal to or better than a conventional air-gap display with a 1500 to 2000 nit backlight.
<b>Contrast</b>	1700:1
<b>Screen Protection</b>	Vandal-resistant laminated glass with anti-reflective coating
<b>Viewing Angle</b>	170° (horizontal and vertical)
<b>Scanning Frequency</b>	37.5–90 kHz (horiz.); 50–66 Hz (vert.)
<b>Response Rate</b>	8 ms (gray-to-gray)
<b>Controls</b>	Remote OSD controls

### PHYSICAL

<b>Dimensions*</b>	31.5"W x 20"H x 3.5"D (800 x 508 x 89 mm)
<b>Weight*</b>	81 lbs. (37 kg)
	*Not including optional mounting stand

### CHASSIS

<b>External Enclosure</b>	Heavy-duty 304 stainless steel Corrosion-resistant external enclosure built to survive ocean spray, road salt, and other hazards.
<b>Internal Enclosure</b>	Powder-coated aluminum. NEMA 4 enclosure, suitable for washdown. Protects LCD and electronics against snow, rain, dust, hose-directed water, insects, and vermin.
<b>Operating Temperature</b>	-32 to 122°F (0 to 50°C) Heater available for operation to -40°F (-40°C)
<b>Mounting</b>	Pylon, wall, or custom mounting stand in landscape or portrait orientation.
<b>POWER SUPPLY</b>	
<b>Power Supply</b>	90–240 VAC, 50/60 Hz, ±3 Hz
<b>Thermal Mgmt. System</b>	120 W (Extended temp. range option 240 W)
<b>Green Design</b>	<i>AR-Bonding</i> cuts power consumption by 30–40%

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15" Sunlight-Readable Outdoor Digital Display

# CYRAQ<sup>®</sup> 1015UC

15" XGA Resolution (1024 x 768)  
All-Weather Outdoor Digital Display

## High-Performance Outdoor Digital Signage

The new **CYRAQ 1015UC** outdoor digital sign is a reliable, cost-effective LCD display that is ideal for use as a topper or wing on existing static signs. Constructed from heavy-gauge 304 stainless steel, our rugged outer enclosure resists corrosion and stands up to the most demanding temperatures and weather conditions, year after year.

## The Difference is Crystal Clear, Even in Direct Sunlight

With an 800:1 contrast ratio, the new CyRAQ 1000 Series 15-inch display offers extremely sharp, clear, sunlight-readable images at full XGA resolution, even direct sunlight. CyberResearch's unique *AR-Bonding™* image-enhancement technology nearly eliminates visible reflections and provides equal or better sunlight readability than a conventional air-gap display that has a 1500 to 2000 nit backlight.

## Green Design Saves Money Every Day

With passive image enhancement, you get 30 to 40% lower backlight energy consumption at equivalent readability. That reduced energy consumption gives you a similar reduction in cooling power. You gain both ways, and save on power costs every single day.



Screen image courtesy of X20 Media, Inc.

## Specifications

### DISPLAY

<b>Part Number</b>	CYRAQ 1015UC
<b>Screen Size</b>	15" Diagonal
<b>Screen Image</b>	1024 x 768 pixels (XGA) @ 16 million colors
<b>Input Options</b>	VGA, DVI, composite, S-video Projected capacitive touchscreen optional
<b>Brightness</b>	Readable in Direct Sunlight CyberResearch's unique <i>AR-Bonding™</i> display-enhancement technology reduces excessive light reflections and provides sunlight readability equal to or better than a conventional air-gap display with a 1500 to 2000 nit backlight.
<b>Contrast Ratio</b>	800:1
<b>Brightness</b>	Equivalent to conventional signs rated at 1500 to 2000 nits
<b>Resolution</b>	1024 x 768 pixels (XGA) @ 16 million colors
<b>Screen Protection</b>	Vandal-resistant laminated glass with anti-reflective coating
<b>Viewing Angle</b>	140° (horizontal and vertical)
<b>Scanning Frequency</b>	37.5–60 kHz (horizontal), 60–75 Hz (vertical)
<b>Response Rate</b>	13 ms (gray-to-gray)
<b>Controls</b>	Remote OSD controls

### PHYSICAL

<b>Dimensions*</b>	16.0"W x 12.7"H x 3.0"D (407 x 323 x 77 mm)
<b>Weight*</b>	15.9 lbs. (7.21 kg)
	*Not including optional mounting stand

### CHASSIS

<b>External Enclosure</b>	Heavy-duty 304 stainless steel Corrosion-resistant external enclosure built to survive ocean spray, road salt, and other hazards.
<b>Internal Enclosure</b>	Powder-coated aluminum. NEMA 4 enclosure, suitable for washdown. Protects LCD and electronics against snow, rain, dust, hose-directed water, insects, and vermin.
<b>Operating Temperature</b>	-32 to 122°F (0 to 50°C) Heater available for operation to -40°F (-40°C)
<b>Mounting</b>	Pylon, wall, or custom mounting stand in landscape or portrait orientation.
<b>POWER SUPPLY</b>	
<b>Power Supply</b>	90–240 VAC, 50/60 Hz, ±3 Hz
<b>Thermal Mgmt. System</b>	120 W (Extended temp. range option 240 W)
<b>Green Design</b>	<i>AR-Bonding</i> cuts power consumption by 30–40%

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