

# 1029CNH 10.1" IP65 Water Resistant, Sunlight Readable, Capacitive Touchscreen LCD Monitor with HDMI, DVI, VGA & AV Inputs



## Description

Expanding its **small touchscreen monitor** product line into previously uncharted territories, Xenarc Technologies Corp. presents the first in its class **10.1" direct sunlight readable, IP65 dust/splash proof, capacitive touchscreen** with built-in waterproof speakers. The 1,200 NIT rated brightness of this water and dust resistant **10" touchscreen** makes it ideal for tough outdoor applications under direct sunlight, and also protects from environmental hazards with its IP65 certified casing. This

rugged, heavy duty **10" touchscreen unit** is available with **Optical Bonding** and an **IP67** rating with the 1029GNH.

The 1029CNH offers all of the innovation and inputs as our 1020 series models along with a **Capacitive touchscreen panel**. **Capacitive sensing** provides a more responsive touch interface than resistive touch. It achieves this by using the capacitance of human skin to detect the proximity or position of the input. Proximity sensing allows the touch interaction to work even if protective glass or coating is used over the display. The **IP65 rating** on the **10" small touchscreen monitor** provides for protection against solid objects and liquids. This **10" touchscreen** is guaranteed to prevent any amount of dust from entering the device, making it completely dust proof. Further, it is guaranteed to protect from water projected from a nozzle from having any harmful effect.

Why do our ruggedized products outlast others in extreme conditions? Why do our **small touchscreen solutions** have a wider temperature range and a wider voltage input range? It is because our mission is to offer our customers the best **small monitor** solutions for any situation. By utilizing high grade components, this **10" touchscreen** is perfect for industrial and in-vehicle applications or any other applications where a small, durable, environmentally rugged display is required, including but not limited to:

- **Transportation** - Marine, Air, Heavy Vehicles, Mining, Weigh Stations, Fleet Management, Telematics, In-Car Computing, Public Transit, Cargo
- **System Integration** - Machinery Controls, Factory Automation, Environmental Monitoring, Home Automation, Military, Smart Home
- **Point of Sale** - Hospitality, Digital Signage, Self-Service Kiosks, Outdoor Kiosks and Signage, Casino
- **Data Monitoring** - Cloud, IoT, Medical, Logistics, Inventory Management, Oil & Gas/Utilities, Law Enforcement, Broadcasting, Veterinary, First Person View
- **Broadcast & Production** - Broadcast Stations, Mobile Production Vehicles, Field Rugged Deployment for your mobile workforce, Studio Video Production

## Features

- IP65 / NEMA4 Rated Water and Dust Resistance (Whole Unit)
- 1,200NIT Sunlight Readable with Long Life LED Backlight
- Wide Viewing Angle IPS (In-Plane Switching) LCD Panel
- Automatic Backlight Adjustment through Built-in Ambient Light Sensor
- Projected Capacitive Multi-Touch Touchscreen (USB)
- Anti-Reflective and Anti-Fingerprint Coating
- Plug-N-Play with Windows 7 and up and Android devices (Downloadable drivers for other OS)
- Multi-Monitor Touchscreen Support
- HDMI Input x 1 (HDCP), VGA Input (15 pin D-SUB) x 1 & Video Input x 2
- DVI Input through included DVI to HDMI Adaptor
- Audio Input x 3 / Built-In Waterproof Speaker
- 1280x800 Native Resolution, 16x9 Aspect Ratio
- Solid Capacitors for Improved Durability
- High Performance Image and Video Signal Processor

- **AISS** - Advanced Image-Scaling and Shaping
- Last Input and Power Setting Memory
- IR Remote Control
- Control Monitor Functions through USB port using RS232 Commands **\*NEW\***
- Auto Power-On upon signal detection
- Vertical Image Flip
- Function to Disable Front Button(s) and On Screen Text
- AV2 Auto Switching for Backup Camera
- 360° Copper Monitor Stand or U-Shape Mount
- VESA 75mm Mounting Holes
- Panel Mountable with Optional Panel Mount Bracket (PMB-1029)
- 26-Pin Heavy-Duty Connector with Connector Locking
- Ruggedized Aluminum Casing
- Supports 9V DC ~ 36V DC
- "E" Mark Certified for Automotive use
- FCC, CE, E13 Certification
- ECE R118-03 Compliant
- IK07 Impact Resistant
- ROHS, REACH, ECE R118-03 Compliant
- 36 Month/3 Year Warranty
- 30 Day No dead Pixel Guarantee

## Function Diagram

10.1" IP65 Water Resistant, Sunlight Readable, Capacitive Touchscreen LCD Monitor with HDMI, DVI, VGA &

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<http://www.xenarcdirect.com/image.php?type=FD&id=17694>

## Package Contents

- AC Adaptor or Cigarette Lighter Car Adaptor or 5M Power Lead
- 1.8 Meter Cable or 5 Meter Cable or 2 Feet Cable with only HDMI & USB, or 2 Feet Cable with only VGA & USB or 5 Meter Cable with only HDMI & USB
- Optional U-Shape Mount or Panel Mount Bracket

## Specification

- Screen Size: Diagonal 10.1" (16:9)
- Physical Resolution: 1280 (H) x 800 (V) HD
- Supported Resolution: 640 x 480 ~ 1920 x 1080
- Dot Resolution: 3840 x 800 = 3,072,000 (dots)
- Brightness: 1200 cd/m<sup>2</sup>
- Contrast Ratio: 800:1

- Viewing Angle: 170° Horizontal, 170° Vertical
- Response Time (Tr/Tf): 10/15ms (Typ.)
- Touch Screen Interface: USB port
- Operating Voltage Range: DC 9V ~ 36V
- Power Supply: DC 12V
- Power Consumption: ? 20W
- Operating Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Temperature: -22°F ~ 176°F (-30°C ~ 80°C)
- Vibration: Operating Random Vibration Test (5-500Hz, 1.0Grms), IEC 60068-2-64 standard
- Shock: Operating Shock Test, 10G peak acceleration (11ms duration), IEC 60068-2-27 standard
- MTBF (Mean Time Between Failures): > 55,000 Hours or > 6.2 Years of continuous operation
- Dimension (mm): 265.7W x 178.2H x 32.2D
- Weight (lb): 3.64