

# 1589GFP 15.6 inch IP69K Sunlight Readable Capacitive Touchscreen LCD Display Monitor with HDMI, Displayport, and VGA Inputs



## Description

The Xenarc 1589 series of **15.6" touchscreen displays** is perhaps the most versatile and all-encompassing product in Xenarc Technologies' line up of products. This **16:9 1000 NIT High Bright Touchscreen** is **IP69K** and **IP66 / NEMA4X** rated and includes an **UV Resistant** Projected Capacitive touchscreen, making it ideal for any harsh industrial and outdoor environments. The IP69K ruggedization, allows the monitors to withstand close range, high temperature and high

pressure spray downs for sanitization, and rigid **SUS316 stainless steel** enclosures that could withstand harsh detergents, acidic/alkaline disinfectants, and seawater. These Xenarc displays will satisfy the stringent sanitation requirements of food processing, beverage production, pharmaceutical manufacturing, and chemical factories. A wide temperature range allows these displays to operate at temperatures down to -22F (-30C) and withstand temperatures up to 185F (85C), making them perfect for food processing applications where refrigeration or freezing is a must, or in marine and outdoor applications where marine spray or sub-freezing temperatures and direct sun exposure may make other displays unusable.

The 15.6 inch Anti-Glare touch panel has special Anti-Fog AR underside coating, increasing clarity, contrast, and durability. Further, because the 15.6" touchscreen display unit is **water tight** and **air tight**, ambient **humidity will not** affect the clarity or viewability because of the Anti-Fog AR underside coating. The 1589GNH 15 inch touchscreen monitor outperforms all **automotive grade panels** with a wider operating temperature range of **-30C ~ 85C (-22F ~ 185F)** and uses an IPS panel (In-Plane-Switching), which provides a wider viewing angle, consistent and accurate colors from all viewing angles, clearer images, and fast response times. A **high contrast ratio of 1000:1** provides crisper images and vivid colors, even in direct sunlight. The ruggedized **full IP69K and IP66 / NEMA4x enclosure** is entirely made out of **SUS316 Stainless Steel**, ready for harsh environments whether it's long-term outdoor install or high temperature sanitization required by food industries.

The versatility of the 1589 series extends beyond its usability in many different environments. The 1589GNH can video interface through the included HDMI cable as well as any standard HDMI, Displayport, VGA cables that you could procure separately. With the included Waterproof Rubber Cable Grommets that work with cables of various sizes, the 1589GNH is IP69K and IP66 / NEMA4X rated on all sides and angles (Cabling must not have nylon jacket which would affect the IP rating). The casing of the 1589GFP is designed to be used as a stand-alone monitor as well as a **Panel Mount** monitor (with the included panel mount brackets). 75mm x 75mm and 100mm x 100mm VESA standard mounting holes on the back further provide users with numerous mounting options. The **SUS316 Stainless Steel Casing makes the 1589GFP chemical resistant and vandal resistant.**

The 1000NIT sunlight readable display can be auto-dimmed through its built-in ambient light sensor or be manually adjusted on the fly using the built-in VR dimmer knob.

The 1589GFP was designed for those looking for a true rugged, bright, UV-Resistant display, usable in just about any environment or application.

Why do our **15.6" Touchscreen Display** products outlast others in extreme conditions? Why do our products have a wider temperature range and a wider voltage input range? It is because our mission is to offer engineers, automators and system integrators the best products for any situation. By utilizing high grade components, this display is perfect for industrial, in-car computing applications or any other applications where a 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** - Food Processing, 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
  
- **Sunlight Readable – Ready for all environments**
- **Waterproof/Dustproof– Built to Stringent IP69K Standards**
- **UV Resistant - Great for outdoor installs**
- **AG Touchscreen with Anti-Fog AR Underside Coating – Optically Enhanced for clarity and viewability**
- **Multiple Inputs – HDMI, Displayport, and VGA Inputs**
- **Automatic Dimming – Built in Ambient Light Sensor**
- **Superior Image – Scalable resolution up to 1080P**
- **Extended Temperature Range**

## Features

- IP69K High Temperature High Pressure Spray Down Protection (Whole Unit)
- IP66 / NEMA4X Rated Water and Dust Resistance (Whole Unit)
- Super Wide Operating Temperature range of -22°F ~ 185°F (-30°C ~ 85°C)
- 1,000NIT 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
- Manual Backlight Adjustment through Built-in VR Knob
- Projected Capacitive Multi-Touch Touchscreen (USB)
- UV Resistant for Outdoor Installs
- Anti-Glare Touchscreen with Anti-Fog AR Underside 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), Displayport Input x 1, VGA Input (15 pin D-SUB) x 1
- 1920x1080 Native Resolution, 16x9 Aspect Ratio
- Chip Monolithic Ceramic 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
- Auto Power-On upon signal detection
- Vertical Image Flip
- VESA 75x75mm and 100x100mm Mounting Holes
- Panel Mountable with Included hardware
- Ruggedized SUS316 Stainless Steel enclosure
- Supports 9V DC ~ 36V DC
- FCC, CE Certification

- IK07 Impact Resistant
- ROHS, REACH Compliant
- 36 Month/3 Year Warranty
- 30 Day No dead Pixel Guarantee

## Function Diagram

15.6 inch IP69K Sunlight Readable Capacitive Touchscreen LCD Display Monitor with HDMI, Displayport, and

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<http://www.xenarc.com/image.php?type=FD&id=17788>

## Package Contents

- 5 Meter DC Power Lead with Optional AC Adaptor or Cigarette Lighter Car Adaptor
- 1.8 Meter HDMI Cable
- 1.8 Meter USB Cable
- IP69K / IP66 Waterproof Rubber Cable Grommets for different thickness cables
- Panel Mount Brackets

## Specification

- Screen Size: Diagonal 15.6" (16:9)
- Physical Resolution: 1920 (H) x 1080 (V) Full HD
- Supported Resolution: 640 x 480 ~ 1920 x 1080
- Dot Resolution: 5,7600 x 1080 = 6,220,800 (dots)
- Brightness: 1000 cd/m<sup>2</sup>
- Contrast Ratio: 1000:1
- Viewing Angle: 178° Horizontal, 178° Vertical
- Response Time (Tr+Tf): 25ms (Typ.)
- Touch Screen Interface: USB port
- Operating Voltage Range: DC 9V ~ 36V
- Power Supply: DC 12V
- Power Consumption: ? 23.5W
- Operating Temperature: -22°F ~ 185°F (-30°C ~ 85°C)
- Storage Temperature: -22°F ~ 185°F (-30°C ~ 85°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): 448W x 297H x 58D
- Weight (lb): 15.21