

# 702CSH 7" Sunlight Readable Capacitive Touchscreen with HDMI, DVI, VGA & AV Video Inputs



## Description

Xenarc Technologies Corp. extended the versatility of its iconic 700 series line of 7" Industrial and Commercial touchscreen solutions with the introduction of a Sunlight Readable 7" **Capacitive Touchscreen** with **HDMI Video input**. This advanced capacitive touch screen unit uses the latest 7" **LCD Panel** with a 1024x600 native resolution while incorporating our latest LED backlight technology for a **brightness rating of 1,000NIT** and an ambient light sensor which dims the backlight

automatically when required. The high brightness of this **7" enterprise-grade HDMI touchscreen** makes it ideal for outdoor applications under direct sunlight as well as any other applications where a bright, non-reflective display may be effective. This **7" touchscreen monitor** unit is also available Optically Bonded as the rugged 702GSH. The **7" touchscreen** monitor is also available without a high bright screen as the 700CSH model.

This latest **7" touchscreen monitor** offers superior readability under sunlight. With Xenarc Technology's proprietary technology, we are able to increase **the brightness rating to 1,000NIT**, and the **Contrast Ratio to 700:1**. Sunlight readability is further enhanced by its advanced **Anti-Reflective coating**. In addition, Chip Monolithic Ceramic Capacitors are used throughout the display unit for improved stability and durability especially in extreme temperature conditions making this **7" HDMI VGA DVI Video Display Touchscreen** unit ruggedized and perfect for harsh industrial environments outdoors and indoors.

This versatile **7" display touchscreen monitor** incorporates the innovation of our **HDMI 7"** models along with a Capacitive Touch-Screen 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 interface to work even if a protective glass or coating is used over the touch display. Use the convenient **7" touchscreen** as your input device, control your mouse cursor or the mini on screen keyboard that comes with your operating system. The touch screen utilizes the USB port as the interface. You can connect several 702CSH monitors to your computer and the touchscreens would work simultaneously through the multi-monitor support. Our Industrial displays are designed for applications such as 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

- 1,000NIT Sunlight Readable with Long Life LED Backlight
- Automatic Backlight Adjustment through Built-in Ambient Light Sensor
- Projected Capacitive Multi-Touch **7" 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 Video** Input x 1 (HDCP), **VGA Video Input** (15 pin D-SUB) x 1 & Video Input x 2
- **DVI Video Input** through included DVI to HDMI Adaptor
- Audio Input x 3 / Built-In Speaker
- 1024x600 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
- Auto Power-On upon signal detection
- Mirror and Vertical Image Flip
- Function to Disable Front Button(s) and On Screen Text
- AV2 Auto Switching for Backup Camera
- 360° Copper Monitor Stand
- VESA 50mm Mounting Holes
- 26-Pin Heavy-Duty Connector with Connector Locking
- Supports 10V DC ~ 35V DC
- "E" Mark Certified for Automotive use
- FCC, CE, E13 Certification
- ROHS, REACH, ECE R118-03 Compliant
- 36 Month/3 Year Warranty
- 30 Day No dead Pixel Guarantee

## Function Diagram

7" Sunlight Readable Capacitive Touchscreen with HDMI, DVI, VGA & AV Video Inputs

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<http://www.xenarc.com/image.php?type=FD&id=17697>

## Package Contents

- Monitor Stand
- 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

## Specification

- Screen Size: Diagonal 7" (16:9)
- Physical Resolution: 1024 (H) x 600 (V) WVGA
- Supported PC Resolution: 640 x 480 ~ 1920 x 1080
- Supported HDMI video Signal: 480i, 480p, 720i, 720p, 1080i, 1080p
- Dot Resolution: 3072 x 600 = 1,843,200 (dots)
- Brightness: 1,000 cd/m<sup>2</sup>
- Contrast Ratio: 700:1
- Viewing Angle: 150° Horizontal, 145° Vertical
- Response Time (Tr/Tf): 10/15ms (Typ.)

- Touch Screen Interface: USB port
- Operating Voltage Range: DC 10V ~ 35V
- Power Supply: DC 12V
- Power Consumption: < 10W
- Operating Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Temperature: -22°F ~ 176°F (-30°C ~ 80°C)
- MTBF (Mean Time Between Failures): > 55,000 Hours or > 6.2 Years of continuous operation
- Dimension (mm): 196W x 121.5H x 35D
- Weight (lb): 1.54