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

Description

Xenarc Technologies Corp. extended the versatility of its iconic rugged 700 series line of commercial enterprise-grade rugged small form factor, portable displays with the introduction of a **Sunlight Readable** 7" LCD screen with **HDMI video signal** input and **Capacitive Touchscreen**. The **7" HDMI Touchscreen Monitor** 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" HDMI monitor** 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" industrial display unit is also available, with an Optically Bonded touchscreen that prevents dust and water from fogging the screen, as the 702GSH. It is also available without direct sunlight readability as the 700CSH.

This latest enterprise-grade truly rugged 7" **HDMI 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 it's advanced **Anti-Reflective coating** giving you crisp and clear video images. In addition, Chip Monolithic Ceramic Capacitors are used though out the unit for improved stability and durability especially in extreme temperature conditions making this 7" HDMI Video display unit perfect for harsh industrial environments outdoors and indoors.

This versatile 7" HDMI touchscreen monitor incorporates the innovation of our rugged line of **HDMI video displays** 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 display. Use the convenient touch-screen 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 **Touchscreen monitors** to your computer and the touchscreens would work simultaneously through the multi-monitor support. Our Industrial monitors and touchscreen solutions are designed for applications such as but not limited to:

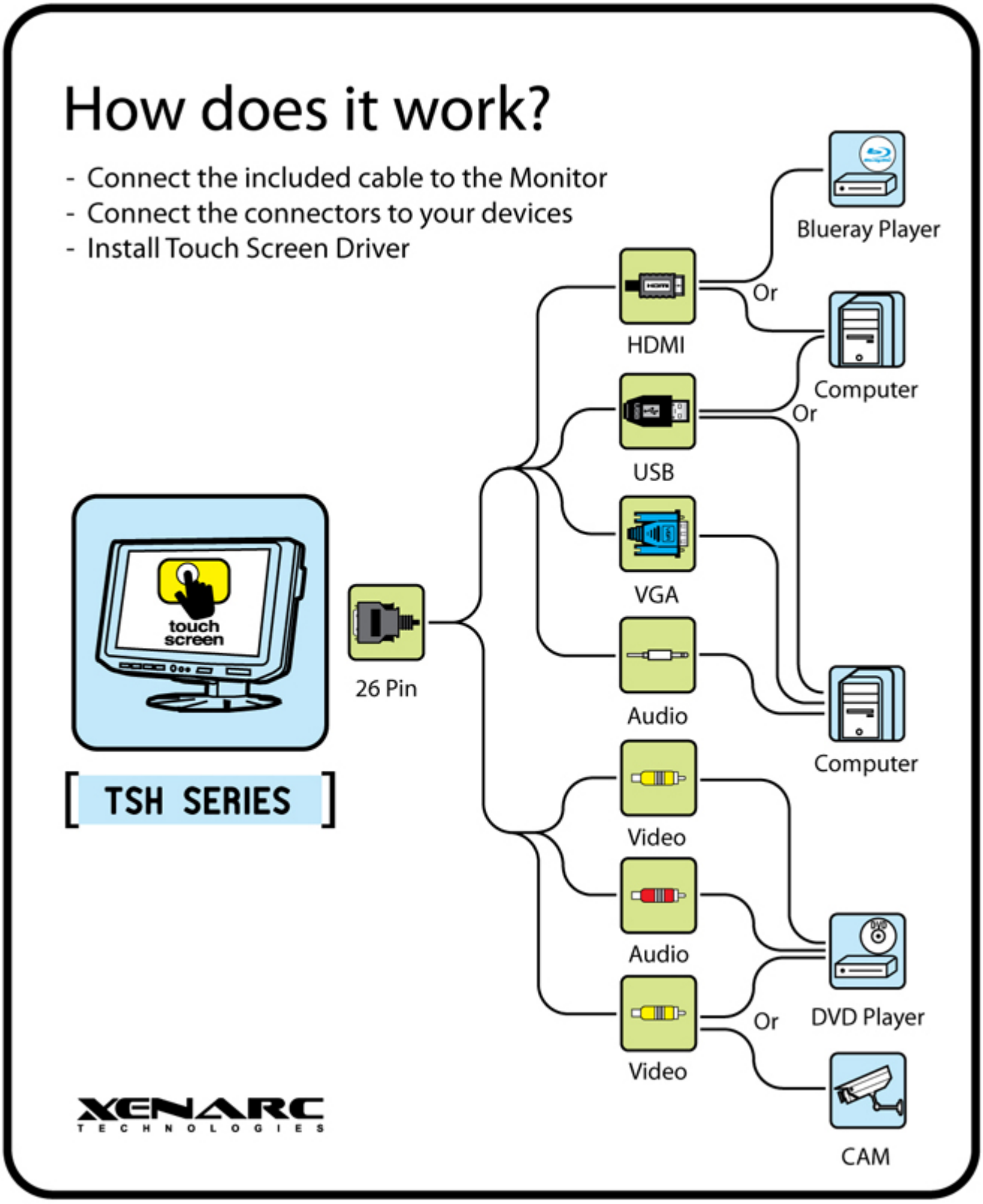
- **Transportation** - Marine, Air, Heavy Vehicles, Mining, Weigh Stations, Fleet Management, Telematics, In-Car Computing, Public Transit, Cargo
- **System Integration** - Machinery Controls, Factory Automation, Environmental Monitoring, Home Automation, Military, Smart Home
- **Point of Sale** - Hospitality, 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



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 Monitor Stand

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/m²
- 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