

# 32" Outdoor LCD GS3200HDL1



**32" All Weather Outdoor Sunlight Readable LCD**  
1500 nits 1920 x 1080, 2000:1 with Strength Safety 6mm glass  
(Landscape mode). IP65/NEMA4 All Weather proof Enclosures  
with thermal control with Air- conditioning and Heater thermal  
control Video input: HDMI, VGA, DVI

## Overview:

Suntronic's GS product line, featuring innovative All-Weather Sunlight Readable LCD technology, provides the highest-quality Sunlight Readable image available in Out Door Environment. These Industrial grade Outdoor displays have the exemplary resolution and brightness you've come to expect from Suntronic. GS technology delivers stunning images for use in applications such as: Digital Signage, Ski Resorts, Retail/ Restaurants, Golf Course, Gas Stations, Shopping Malls, Restaurants and Outdoor

## Features Highlight:

- 1500 nits High-Brightness LCD Panel
- All Weather Proof IP65 Enclosures
- Operating Temperature -40F To 122F\*
- Integrated heater and air conditioner
- Vandal Resistant Screen & housing
- Unique Front Access Design
- Remote Reboot/Temp. & Humidity Monitoring available (Optional)
- Wireless and VGA/DVI CAT5 signal extenders available (Optional)

## Technical specifications

**Active area size (W x H):** 32" (697.7 x 392. mm)  
**Panel resolution (pixels):** 1920 x 1080  
**Luminance of white (Brightness):** 1500 nits (Typ)  
**Contrast ratio:** 1500:1  
**Response time (gtg):** 8 ms (Typ)  
**Colour Range:** 16.7 Million colours (max)  
**Viewing angle:** 85/85/85/85  
**Video inputs:** VGA; DVI, HDMI  
**Auto Brightness Control:** Yes (Optional)  
**Front glass type:** Strengthen 6mm AR glass  
**IP Class:** IP65  
**Operating temperature range:** -40 to + 95F (Direct Sunlight)  
/122F (Under Shaded Area)  
**Storage Temperature:** 0 to 50C  
**CCFL Life Time:** 60K hrs (min)  
**Input voltage:** 110V  
**Weight:** 150lbs  
**External dimensions (W x H x D):** 34"W x 23.7H x 11.5" D mm  
Notes: to guarantee a proper functionality, 6" of clearance must be kept around the display  
**Portrait version:** Please contact SuntronicLCD for details  
*\*\*Remarks: L for Landscape and P for portrait*

## Options

1. Integrated CAT5/Fiber Optics VGA/DVI Extenders
2. Custom Embedded PCs and Wireless
3. Serial RS232 Input
4. Screen Sensor/Environmental Sensors
5. Auto Brightness Control Sensors

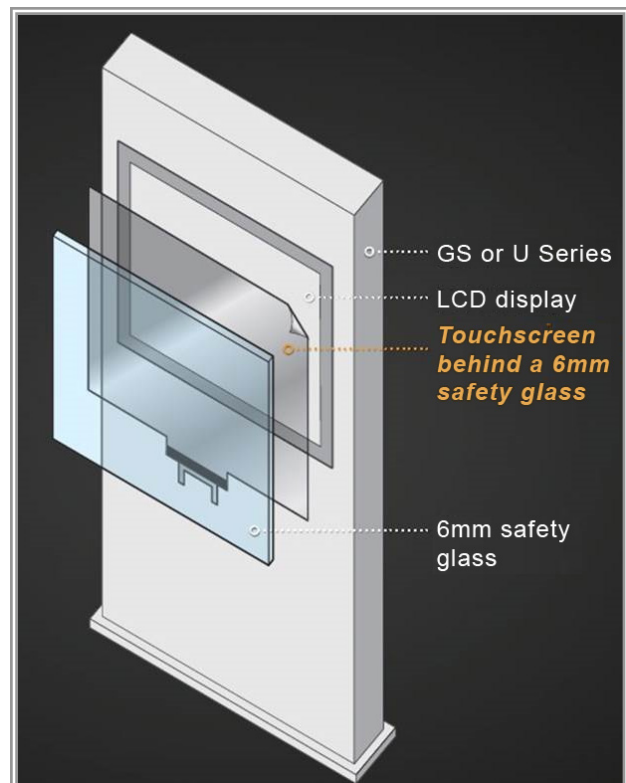
**Customization:** Integrated with Third Party Media player,

**Customization:** Please contact SuntronicLCD for available options

## GS and U Series Touch screen Options

Laminate the touch foil behind a safety glass the glass and integrate into our GS or U Series.

Fitting behind the glass to create a vandal and weather proof touch solution. Ideal for outside enclosures.



## LPC7050WT (Optional)



### Cable-free interior

The interior of this product contains no wires, making this industrial product as rugged as possible.

### Multiple display ports

This platform comes with multiple video-out ports to allow easy integration with any signage setup.

### Integrated SIM card reader

Integrated in a mini-PCIe slot, the SIM card readers allow for users to enable 3G use for their IPC.

### Intel® Atom™ N2800

Dual core Cedar Trail Intel Atom CPUs feature the 1.8 GHz N2800 which uses 6.5 Watts.

### Fanless

This IPCs lifespan has been extended by removing the most easily damaged component, the fan.

### Extreme operating temperature

This product is ruggedized to support a wider than usual range of temperatures. Outfitted with industrial components (HDD/SSD, CF, Memory) this appliance can thrive in harsh conditions.

### Dust proof design

Solid chassis design with a fanless interior allows for this product to be completely dustproof when installed correctly, insuring longevity of the product.

### Screw-locked power plug

This power plug is made to screw directly into the appliance chassis, allowing secure power connection in even the harshest of settings.

### LED indicators

LED indicators makes it easy to check working status.

## LPC7050WT SPECS:

<b>Dimensions (WxHxD)</b>		198x42x145mm (7.80" x1.65" x5.71")
<b>Processor</b>		Intel Atom N2800
<b>Chipset</b>		Intel NM10
<b>System Memory</b>	Technology	DDR3 SODIMM x1
	Max. Capacity	Up to 4GB
<b>Storage</b>	IDE	CF socket Type I/II x1
	SATA	2.5" SSD/HDD drive bay x1
<b>Ethernet Controller</b>		Intel 82574 x1: Intel 82583V x1
<b>Graphic Controller</b>		Intel Integrated Graphics Media Accelerator 3650
<b>Audio Controller</b>		RTL ALC886 x1
<b>I/O</b>	LAN	GbE RJ45 x2
	Display	DB15 x1 for VGA (1920x1200) DVI-D x1 (1920x1200)
	Video Grabber	N/A
	Audio	Phone Jack x2 for Mic-in and Line-Out
	Serial I/O	DB9 x2 supports RS232/422/485
	GPS	N/A
	USB 2.0	Type A x4
	Power Input	2-pin terminal block
	Expansion	Mini-PCIe x2 (one with SIM card reader)
	Others	External: Power-On Button, SMA Antenna Hole Internal: Reset
<b>Power Input</b>		+24Vdc +/-5% ATX Mode
<b>AC Adapter</b>		60W +24V @ 2.5A
<b>Hardware Monitor</b>		Fintek F81865F Integrated Watchdog Timer 1~255 level
<b>OS Support</b>		Linux XPE, XP Pro FES, WS7E, WS7P, Win 7 Pro FES
<b>Certifications</b>		CE, FCC Class A
<b>Compliance</b>		N/A
<b>Operating Temp. Range</b>	w/ Industrial Components	-20~55°C / -4~131°F
	w/ Commercial Components	-5~45°C / 23~113°F



## OUTDOOR ANTENNA (TRAB24003P)

**WHITE OR BLACK:** Our UHF and 800/900 MHz Phantoms are now available in either white or black ABS plastic. ABS plastic is highly shock resistant. Both can be painted to the color of your application by using a nonmetallic paint.

**WHIPLESS DESIGN:** The revolutionary patent pending whipless design of our Phantom™ antenna allows car washes without removing the antenna. Whipless means they don't look like antennas, attract less attention, less vandalism, and have lower wind resistance. Phantom. s™ are also less susceptible to be broken by trees and garages.

**FIELD DIVERSITY:** Field diversity means that the antenna is simultaneously sensitive to both the electric and magnetic fields of the signal, like having two antennas. Field diversity makes the antenna resistant to the picket-fence fading that is always found in urban operation.

**MEAN-EFFECTIVE-GAIN:** The radiation pattern of our Phantom™ antennas are specially tailored to aim the signals in the right direction for mobile operation by utilizing a low radiation angle and a broad beamwidth. When used in mobile operation, in urban or suburban areas, our phantom antennas have been proven to outperform any gain antenna.

**PERMANENT MOUNTING:** Permanent mount versions of the UHF and higher frequency models are available for those high risk applications such as metering where antennas must resist vandalism and achieve economical mounting.

### TRAB24003P

800/900 MHz 3 dB-MEG BLACK MODELS

Frequency Range = 2400-2500 MHz

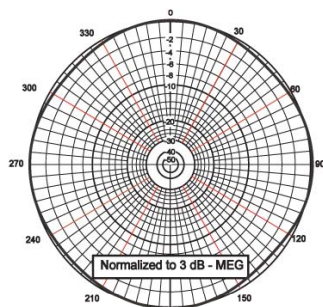
Radome height = 2.30"

Gain = 3 dB-MEG\*

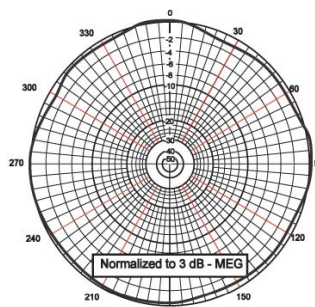


	VHF	220 MHz
<b>Gain:</b>	Unity	Unity
<b>Frequency Range:</b>	144-150 MHz 150-156 MHz 156-162 MHz	220-230 MHz
<b>VSWR:</b>	<1.5:1 850 kHz <2.0:1 1.5 MHz	<1.5:1 2.2 MHz <2.0:1 4.0 MHz
<b>Maximum Power:</b>	100 watts	100 watts
<b>Bandwidth:</b>	1.5 MHz	4 MHz
<b>Impedance:</b>	50 ohms	50 ohms
<b>Height:</b>	3½"	2½"

## Horizontal Field Patterns

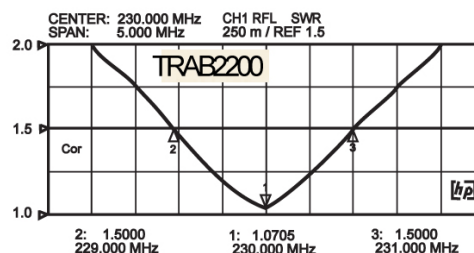
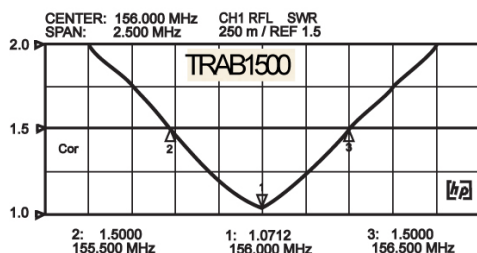


TRAB1500



TRAB2200

## VSWR



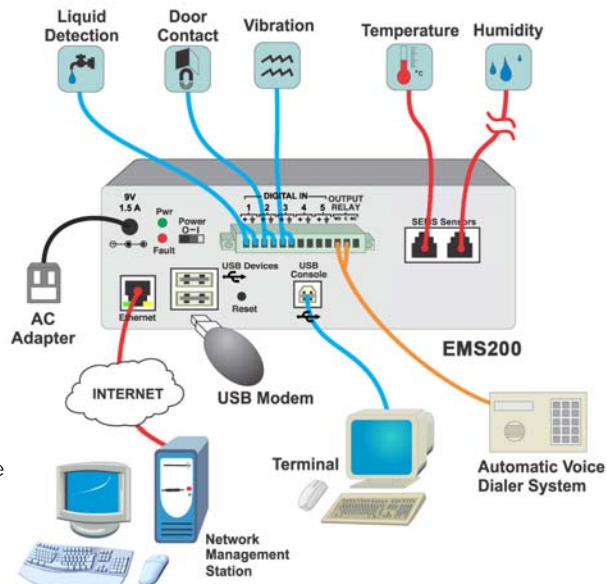


## EMS200 (Optional)

## Configuration and Cable Illustration



Mini Server Environment Monitoring System monitors critical environmental conditions (such as temperature, humidity, and water leakage) that could destroy network components in your server room. When a sensor goes out of range of a configurable threshold, the system will notify you via email, SNMP traps, web-page alerts, a visual indicator (red LED), voice phone calls (via Automatic Voice Dialer System), and SMS messages (via USB 3G modem). The system supports two temperature/humidity sensors, five digital input sensors, and one output relay.



## SPECIFICATIONS:

<b>Sensor Ports</b>	2 RJ45 jacks
<b>Digital Inputs</b>	5 screw terminal pairs
<b>Output Relay</b>	1 screw terminal pair; normally open / normally closed connection points
<b>USB Console Port</b>	One female USB Type B connector for terminal access
<b>Ethernet Port</b>	One 10/100 Base-T Ethernet port with RJ45 jack
<b>USB Ports</b>	2 female USB Type A connectors for connecting USB modem or for downloading log data to USB flash drive
<b>Alerts</b>	6 methods
Email	Authenticates
Web Page	Y
SNMP network management	Y
Front Panel LEDs	LEDs for sensors and power
Voice Phone Calls	Via Automatic Voice Dialer System (not included)
SMS Messages	Via external USB 3G modem (not included)
<b>Smart Alerts</b>	<ul style="list-style-type: none"> <li>Up to 50 sensor conditions (events) can be configured to trigger alerts by themselves</li> <li>Up to 20 Smart Alerts can be configured to use different event combinations to send alert messages</li> </ul>
<b>Control Methods</b>	4 methods
Web Interface	HTTP/HTTPS Supports up to 16 user accounts
Telnet	Y Two user levels: user and administrator
Network Operation (SNMP)	V1/V2c/V3
USB Serial Interface	Y Two user levels: user and administrator
<b>Monitor (Ping) IP Devices</b>	Up to 16 devices
<b>Protocols</b>	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0
<b>Flash Upgradeable</b>	Y
<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>EMS200: 32°F to 104°F (0°C to 40°C).</li> <li>EMS200-IND: 32°F to 167°F (0°C to 75°C).</li> </ul>
<b>Storage Temperature</b>	-20°F to 176°F (-20°C to 80°C).
<b>Operating &amp; Storage Relative</b>	17 to 90% non-condensing RH
<b>Power</b>	<ul style="list-style-type: none"> <li>110 or 220 VAC at 50 or 60 Hz via AC adapter</li> <li>Optional backup battery - provides backup power for two hours</li> </ul>
<b>Dimensions WxDxH (in)</b>	5.67x2.10x2.10
<b>Mounting</b>	Zero-RU Optional DIN rail mounting
<b>Regulatory Approvals</b>	CE, RoHS
<b>Warranty</b>	2 years



## Pictures:



### High Quality Parts

Our company uses only the best, using only High Quality parts along with components in USA or imported from Korea, Taiwan and Germany, for quality that you can trust!



### Customer Service

Our customer service reps are here to help you with your Outdoor LCD sign. From general questions to technical support, we leave you feeling completely satisfied.

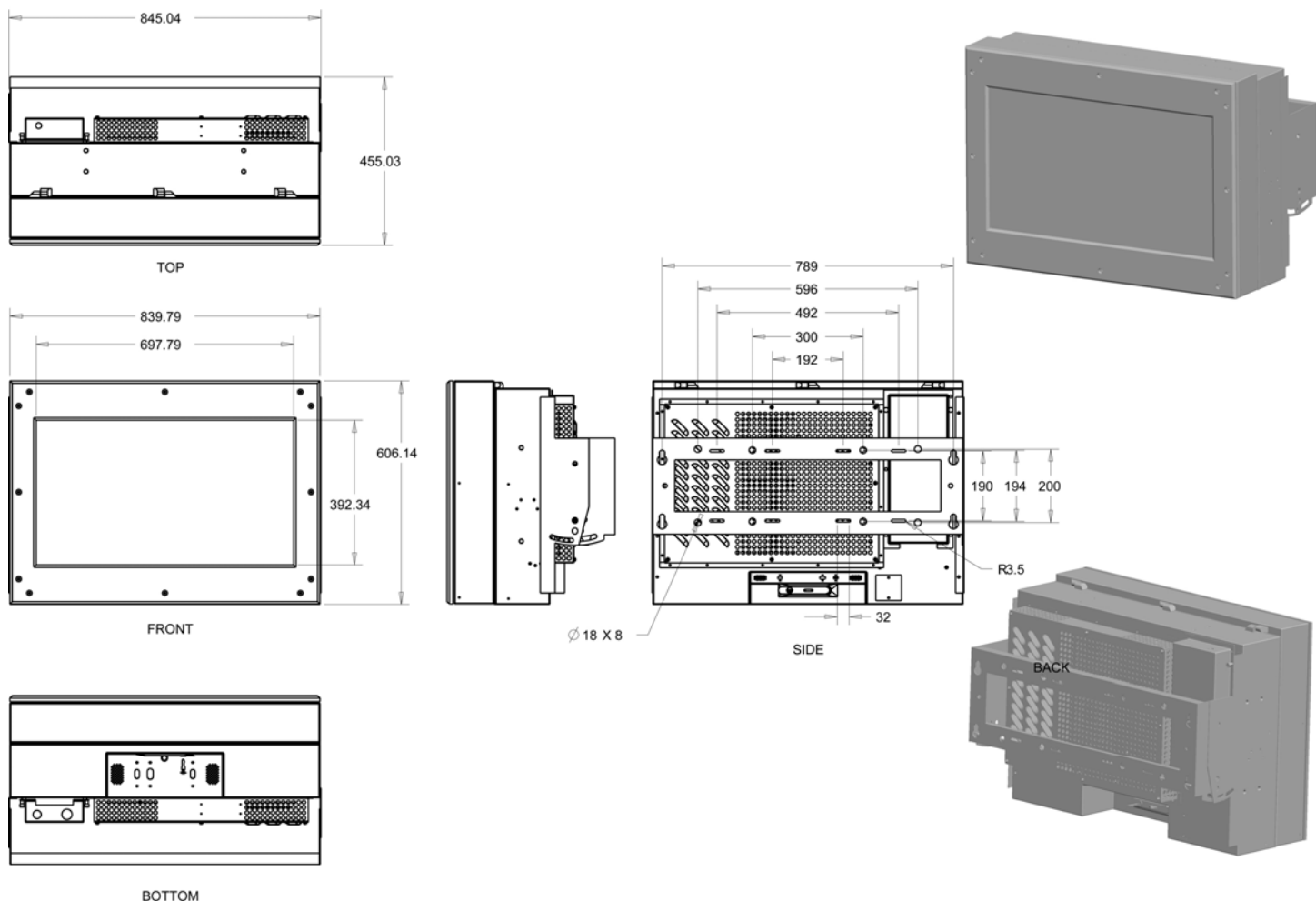


### US Manufactured

Our Outdoor LCD Signs are assembled, tested and shipped from our very own factory, giving us the ability to customize signs to your



## Mechanical Drawings:



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