

# CS-112H/M1101 Series

12.1" TFT-LCD Sunlight Readable Touch Monitor with  
Projected Capacitive Touch, 1x DisplayPort, 1x HDMI, 1x VGA



## MEETING ALL YOUR INDUSTRIAL MONITOR NEEDS | CS-100/M1000 Series Sunlight Readable Monitor |

### Overview

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The Cincoze CS-100/M1101 series sunlight-readable industrial touch monitors are specifically designed for outdoor applications. The highest brightness is 1,800 nits and there is a selection of screen sizes, ratios, and brightnesses. The CS-100/M1101 is the best choice for outdoor kiosk displays and HMI applications because it is rugged and enables easy on-site maintenance. A variety of input interfaces are supported, including HDMI and DisplayPort digital inputs, and VGA analog input. The monitor has a multi-language OSD and supports multiple installation methods, including panel, VESA, and rack mount, to cater to the varied deployment requirements of different outdoor application scenarios.

### Key Features

- 12.1" TFT-LCD with Ultra High Brightness up to 1,500 nits and 1024 x 768 (XGA) Resolution
- Designed with Aluminum Die-Casting Front Frame
- Various Video Input Interfaces: 1x VGA, 1x HDMI, 1x DisplayPort Input
- Support USB & RS-232 Interfaces for Touch Function
- OSD Control keys for Brightness Adjustment
- Convertible Display System (CDS) Supported
- True Flat IP65 Front Panel Protection
- Support Panel / VESA / Rack Mount

### Certifications



### Complete Range of Sizes

The CS-100/M1101 series provides a variety of screen sizes from 8.4 to 24 inches, supports up to Full HD resolution, has a high brightness backlight display of up to 1,800 nits, and has a multi-point projective capacitive touchscreen, which can be selected according to application requirements.



### CDS Patented Technology

The patented CDS (Convertible Display System) technology makes field side maintenance and future upgrades simpler and more cost-effective because a single part of the system can be replaced instead of replacing the whole thing.

Patent No. M482908

### Multiple Display Inputs

The CS-100/M1101 series has three display inputs, including HDMI and DisplayPort digital inputs, and VGA analog input to cater to the display requirements of the industrial field.



### Wide Temp Support, Safe, and Reliable

The CS-100/M1101 series has industrial-grade protections, including wide temperature support (-20°C to 70°C) and a dust- and water-resistant IP65 front panel to face harsh operating environments. In pursuit of ever higher product safety, the CS-100/M1101 series has also undergone rigorous testing to pass UL certification for product safety.



## CS-112H Specifications

Model Name	CS-112HC
<b>Display</b>	
LCD Size	• 12.1" (4:3)
Max. Resolution	• 1024 x 768 (XGA)
Brightness (cd/m <sup>2</sup> )	• 1500
Contrast Ratio	• 700 : 1
LCD Color	• 16.7M
Pixel Pitch (mm)	• 0.24 (H) x 0.24 (V)
Viewing Angle (H-V)	• 160 / 140
Backlight MTBF	• 50,000 hrs (LED Backlight)
<b>Touch Screen</b>	
Touch Type	• Projected Capacitive
<b>Physical</b>	
Dimension ( W x D x H )	• 345 x 265.3 x 57 mm
Weight Information	• 3.16 kg
Mechanical Construction	• Flat Rugged Aluminum Die-casting Bezel
<b>Power</b>	
Power Consumption	• 16.22W (Typ.)
<b>Environment</b>	
Front Panel Protection	• IP 65 Compliant
Operating Temperature	• -20°C to 80°C (With Industrial Grade Peripherals; Ambient with air flow)
Storage Temperature	• -30°C to 80°C
Relative Humidity	• 90% RH @ 40°C (Non-condensing)
EMC	• CE, UKCA, FCC, ICES-003 Class A
EMI	<ul style="list-style-type: none"> <li>• CISPR 32 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN 55032 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A</li> <li>• EN/BS EN61000-3-3 Voltage fluctuations &amp; flicker</li> <li>• FCC 47 CFR Part 15B, ICES-003 Conducted &amp; Radiated: Class A</li> </ul>
EMS	<ul style="list-style-type: none"> <li>• EN/IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV</li> <li>• EN/IEC 61000-4-3 RS: 80 MHz to 1000 MHz: 3 V/m</li> <li>• EN/IEC 61000-4-4 EFT: AC Power: 1 kV; DC Power: 0.5 kV; Signal: 0.5 kV</li> <li>• EN/IEC 61000-4-5 Surges: AC Power: 2 kV; Signal: 1 kV</li> <li>• EN/IEC 61000-4-6 CS: 3V</li> <li>• EN/IEC 61000-4-8 PFMF: 50 Hz, 1A/m</li> <li>• EN/IEC 61000-4-11 Voltage Dips &amp; Voltage Interruptions: 0.5 cycles at 50 Hz</li> </ul>
Safety	• UL, cUL, CB, IEC, EN 62368-1

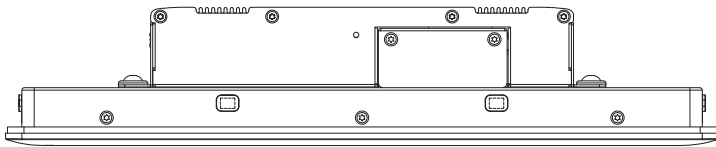
## M1101 Specifications

Model Name	M1101
<b>Graphics</b>	
HDMI-in	• 1x HDMI Connector (1920 x 1080 @60Hz)
DP-in	• 1x DisplayPort Connector (1920 x 1080 @60Hz)
VGA-in	• 1x VGA Connector (1920 x 1080 @60Hz)
<b>Audio</b>	
Audio input	• 1x Audio Line in, Phone Jack 3.5mm
<b>I/O</b>	
COM	• 1x RS-232, DB9
USB	• 1x 480Mbps USB 2.0, Type A
<b>Other Function</b>	
OSD Button	• Menu, Auto, LCD On/Off, Brightness Up, Brightness Down
Internal Speaker	• AMP 2W + 2W
Status LED Indicator	• Power LED, Standby LED
<b>Power</b>	
Power Input	• 9 - 48VDC, 3-pin Terminal Block
<b>Physical</b>	
Dimension ( W x D x H )	• 204.5 x 149 x 38.5 mm
Weight Information	• 1.2 kg
Mechanical Construction	• Extruded Aluminum with Heavy Duty Metal
Mounting	• VESA / CDS Mounting
Physical Design	• Fanless Design • Jumper-less Design
<b>Reliability &amp; Protection</b>	
Reverse Power Input Protection	• Yes
Over Voltage Protection	• Protection Range: 51~58V • Protection Type: shut down operating voltage, re-power on at the preset level to recover
Over Current Protection	• 15A
MTBF	• 1,217,359 hrs - Database: Telcordia SR-332 Issue 3, Method 1, Case 3
<b>Environment</b>	
Operating Temperature	• -20°C to 70°C * Ambient with air flow * According to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14
Storage Temperature	• -20°C to 75°C
Relative Humidity	• 95%RH @ 70°C (non-Condensing)
Shock	• Operating, 15 Grms (according to IEC60068-2-27)
Vibration	• Operating, 1.5 Grms, 5-500 Hz, 3 Axes (according to IEC60068-2-64) • Operating, 1 Grms, 10-500 Hz, 3 Axes (according to IEC60068-2-6)

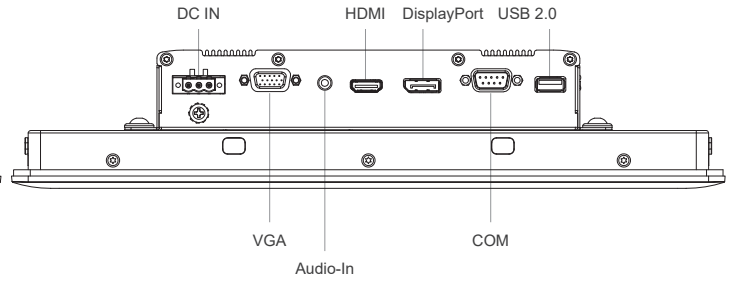
EMC	<ul style="list-style-type: none"> <li>• CE, UKCA, FCC, ICES-003 Class A</li> <li>• EN IEC 61000-6-4, EN IEC 61000-6-2(24VDC Input Only)</li> </ul>
EMI	<ul style="list-style-type: none"> <li>• CISPR 32 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN 55032 Conducted &amp; Radiated: Class A</li> <li>• EN/BS EN IEC 61000-3-2 Harmonic current emissions: Class A</li> <li>• EN/BS EN61000-3-3 Voltage fluctuations &amp; flicker</li> <li>• FCC 47 CFR Part 15B, ICES-003 Conducted &amp; Radiated: Class A</li> </ul>
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Safety	<ul style="list-style-type: none"> <li>• UL, cUL, CB, IEC, EN 62368-1</li> </ul>

**CS-112H/M1101 External Layout**

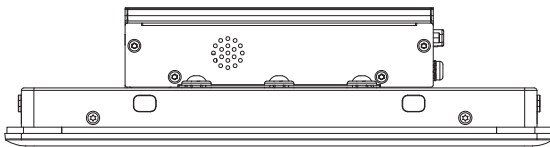
Front I/O



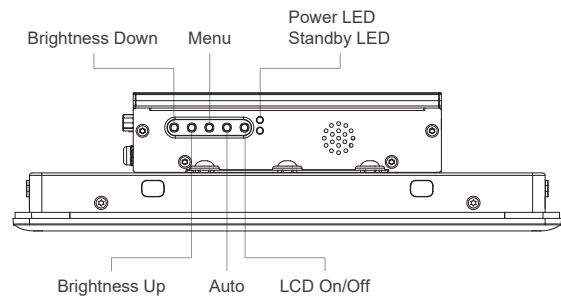
Rear I/O



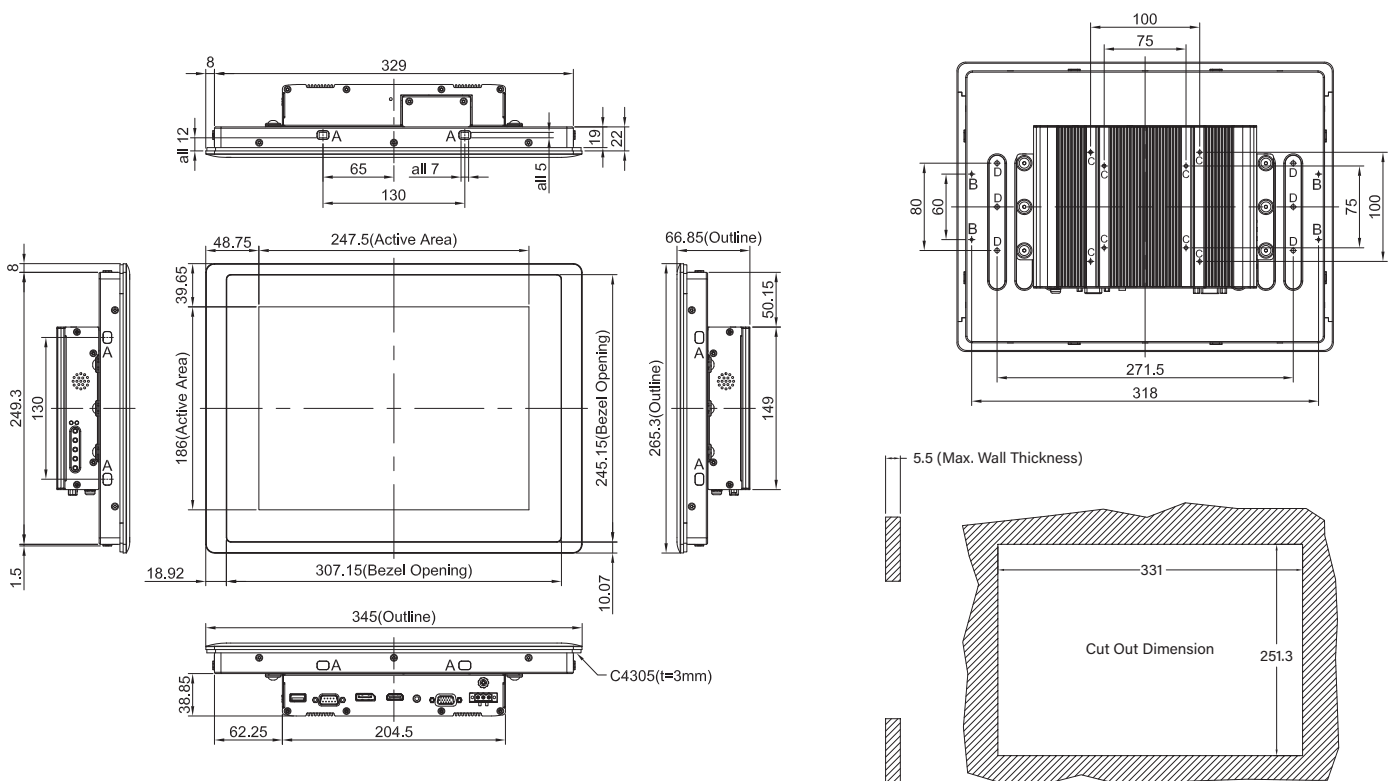
Left I/O



Right I/O



**CS-112H/M1101 Dimensions**



Unit: mm

## Ordering Information

### Available Models

Model No.	Description
CS-112HC-R11/M1101-R10	12.1" TFT-LCD 1500nits Sunlight Readable Touch Monitor with Projected Capacitive Touch, 1x DisplayPort, 1x HDMI, 1x VGA

### Package Checklist

• CS-112H/M1101 Touch Monitor x 1	• Panel Mounting Kit x 1
• USB Cable x 1	• Power Terminal Block Connector x 1
• VGA Cable x 1	• Screw Pack x 1

### Optional Accessories

Model No.	Description
GST60A12-CIN1	Adapter AC/DC 12V 5A 60W, GST60A12-CIN1, wide temp(-30°C ~ +70°C)
GST120A24-CIN	Adapter AC/DC 24V 5A 120W with 3pin Terminal Block Plug and Tubes, Level VI
URM01	Universal 19" Rack Mount Kit for Industrial Panel PC & Industrial Monitor