

# Model: ECHW2200-TR

Chassis, 22" LCD monitor, 1680x1050,  
LED 250 nits, VGA input with Resistive  
touch screen

**ECH Series:** Industrial Chassis Wall/Surface Mount Metal Housing LCD Monitor  
(Optional Integrated Touch Screen/PC/ DC Input/Front NEMA4x/Front Stainless steel bezel and more...)

## Feature Highlights:



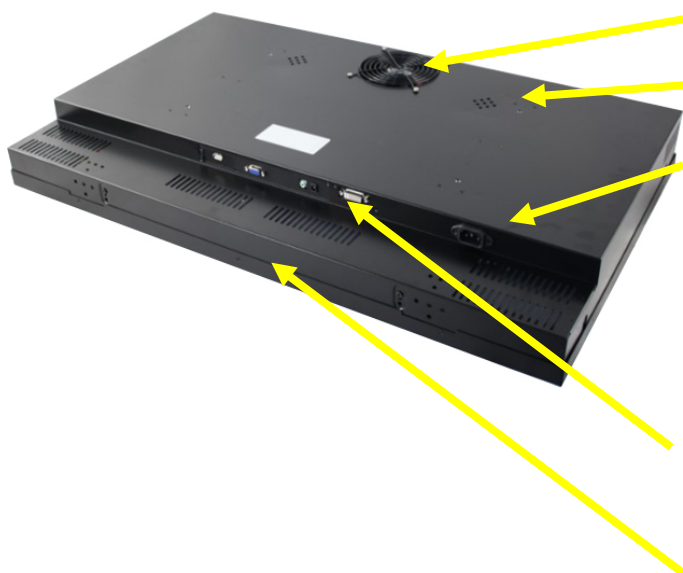
Metal Chassis/Housing for higher Impact protection.  
(Optional for Front AR Glass or Vandal Resistant glass)

Built-in speaker built-in speakers that allow the convenience  
Audio output.

Side OSD buttons can prevent unnecessary setting  
changes.

Above 24" LCD will include Front IR Sensor and Remote  
controller.

Auto Video Signal ON / OFF  
Auto Always Power On



Ultra low speed/Noise fan for extra cooling  
(24" LCD or above)

VESA Mounting Hole Pattern

Reliable built-in Power supply for 15" or above  
(Optional for 9-36V DC input)



Standard VGA Input  
(Optional for DVI, HDMI, AV, BNC, AV looping and SDI)

Optional for RS232 Remote Control Protocol: Command  
Code to set system

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**Features:**

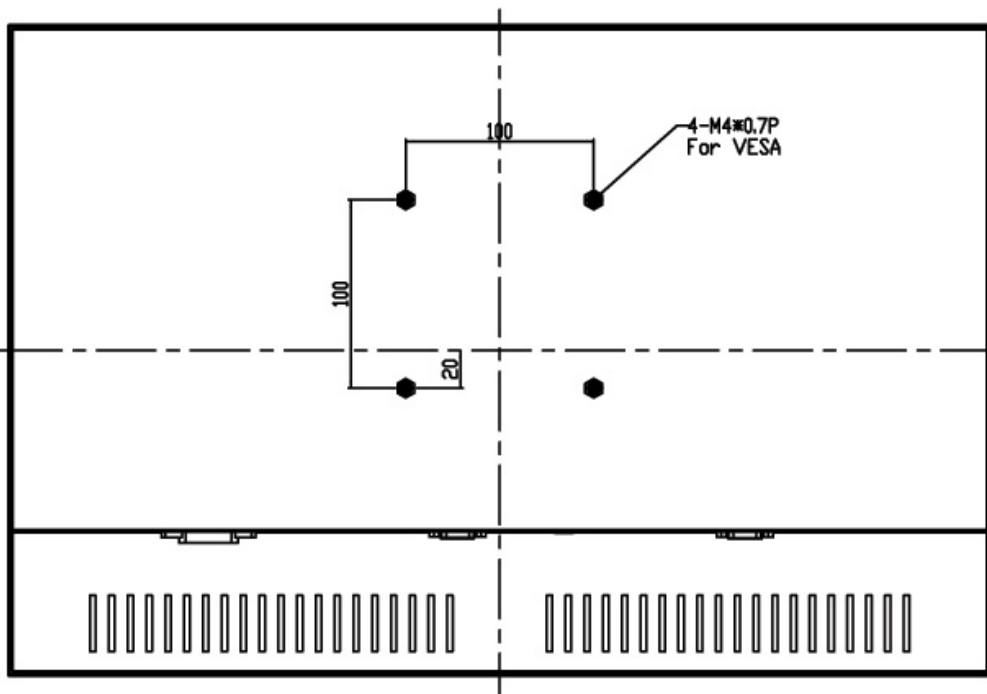
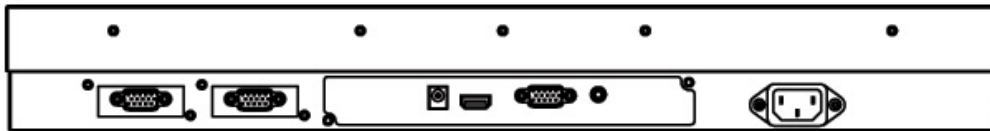
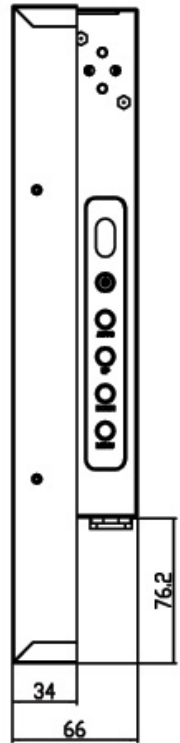
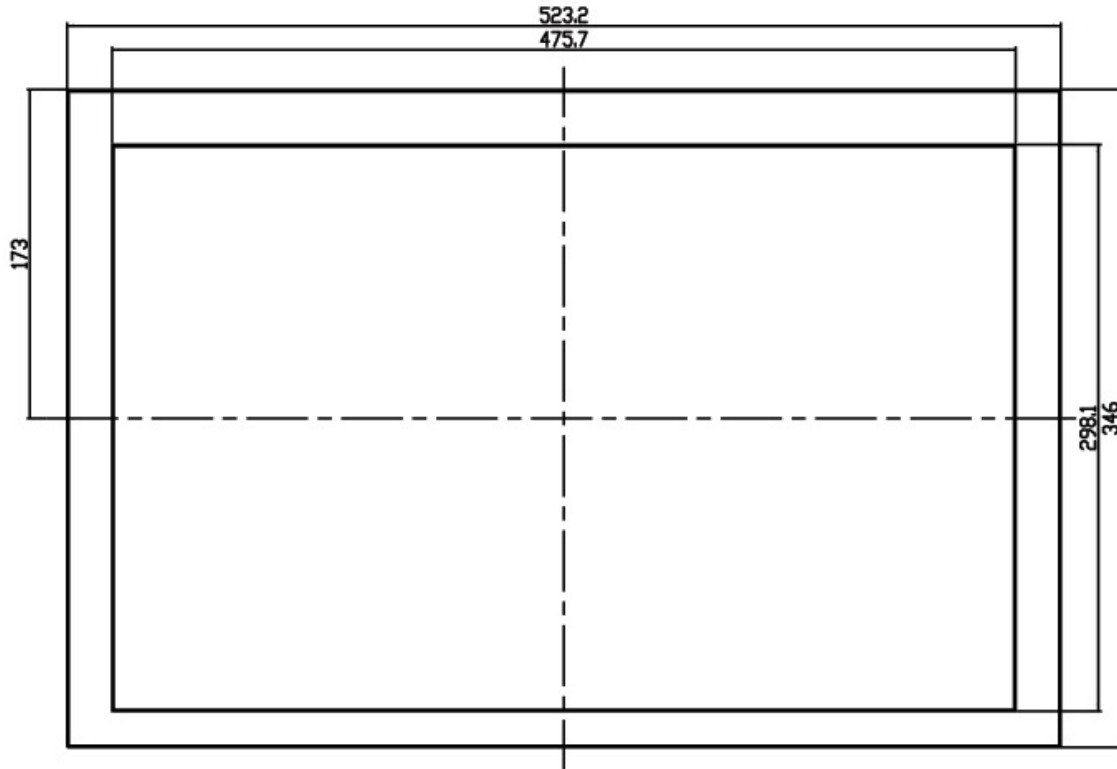
- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-in touch screen for interactive application
- Available with auto-brightness sensor offers application in day and night
- VGA connector with optional AV,SV,AV-Looping
- Complete custom design/solution for OEM customers.

**Specification:**

<b>Panel</b>	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating	
	Aspect Ratio / Size	Wide / 22" viewable diagonal area	
	Active Area / Pixel Pitch	473.8(H) x 296.1(V) mm / 0.282(H) x 0.282(V) mm	
	Native Resolution / Colors	1680(H) x 1050(V) / 16.7M	
	Brightness / Contrast	250 cd/m <sup>2</sup> (typ) / 1000 : 1	
	Response Time	≤ 5 ms	
	Viewing Angle (typical)	H.170° (- 85o ~ + 85o) , V. 160o(- 80o ~ + 80o)	
	Light Source	LED backlight, Long life, 35,000 hrs (typ)	
	<b>Input Sources</b>	PC System	Signal
Sync			Separate Sync, Composite Sync, Sync On Green
Frequency			F <sub>h</sub> : 30 - 82Khz , F <sub>v</sub> : 50 -75Hz
Audio System		2W speaker x 2	
<b>Input Terminals</b>	1 x VGA (15 Pin Female D-Sub) , 1 x PC Audio (Stereo Headphone Jack) , 1 x DC Power Plug		
<b>Convenient Features</b>	Auto Calibration , Back Light Adjustment , Plug&Play (VESA DDC/CI, DDC 2B)		
	OSD Multi-Languages , Wall Mount Ready (VESA Dimension - please refer to Drawing)		
<b>Power</b>	Internal power supply with universal / Auto-Sensing, AC90 to 260V, 50/60 Hz		
<b>Power Consumption</b>	Operation / Power Saving	24.7 watt , < 1 watt (Support DPMS)	
<b>Operating Condition</b>	Temperature / Humidity	0°C ~ 50°C (32°F ~ 122°F) , 10% ~ 90% (no condensation)	
<b>Storage Condition</b>	Temperature / Humidity	- 20°C ~ 60°C (- 4°F ~ 140°F) , 10% ~ 90% (no condensation)	
<b>Certification</b>	FCC , CE		
<b>Dimensions</b>	Physical	Please refer to Drawing	
	Carton	W x H x D = TBD	
<b>Weight</b>	N.W. / G.W.	9 Kgs / 10.5 Kgs	
<b>Container Loaded</b>	20ft / 40ft / 40ft HQ	TBD (Sets , By pallet)	

<b>Options</b>	Touch	Video/TV	Enhanced Panel	Others
	Resistive touch	SV + AV	Panel with LED backlight	Digital Signage(Stand alone)
	Capacitive touch	SV + AV + AV Looping	High brightness panel	Networking Digital Signage
	SAW touch	SV + AV + TV	Wide Temperature	Motion Sensor
	Infrared touch		Sunlight Readable	Light Sensor
	Protected glass			Auto-Dimming

Mechanical Drawing:



## LCD Options:



### LED Backlight Options

Introducing LED backlight options for monitors for energy efficiency and a brighter screen.



### TouchScreen Options

Our LCD has a wide selection option to choose which touchscreen technology suits for you.

	Four-Wire Resistive	Five-Wire Resistive	Pen Touch	Capacitive	Surface Wave(Saw)	Infrared Touch (Ir)
<b>PRODUCT SIZE</b>	1.7" - 24"	10.4" - 24"	15" - 19"	12" - 24"	10.4" - 30"	10.4" - 42"
<b>TOUCH LIFE</b>	1 - 2 million touches	30 - 35million touches	100 million touches	100 million touches	50 million touches	Long-term reliability
<b>SCRATCH RESISTANCE</b>	Hard Coated	Hard Coated	Hard Coated (SiO <sub>2</sub> )	Hard Coated (SiO <sub>2</sub> )	Glass Overlay Moh's hardness rating of 7	Glass Overlay Moh's hardness rating of 7
<b>CONTAMINANT RESISTANCE</b>	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers	Resists moisture, dirt, vinegar, ammonia based food products and cleansers
<b>INPUT METHOD</b>	Finger, Gloved Hand, Stylus	Finger, Gloved Hand, Stylus	Stylus Pen	Finger	Finger, Gloved Hand, Soft pliable stylus	Finger, Gloved Hand, Stylus
<b>CONTROLLER</b>	USB, RS232	USB, RS232	USB, RS232	USB, RS232	USB, RS232	USB, RS232



### VIDEO Input Options:

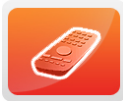
For Video inputs options:

DVI, DVI+HDMI, SVideo+AV, SVideo+AV+DVI, AV+Looping, DVI+AV+Looping, HD-SDI, BNC(PAL/NTSC)



### Optical Bonding Options

- Optical Bonding provides the best reduction of ambient light washout of any commercially available enhancement technology.
- Optical Bonding has a lower cost than most other competing technologies.
- Optical Bonding offers superior ruggedization, enhancing the display durability under vibration, shock and other environmental extremes.



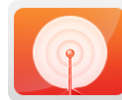
### RS-232 Remote Control Options

**Remote Control Protocol: Command Code to set system**



### 9-36V DC Input Options

iTech offers a selection of DC input from 9V to 36V



### Light Sensor and Motion Sensor Options

iTech LCD offers Light and Motion Sensor

### Privacy Filter

Front Glass Options:

- Anti Reflective AR Glass 3mm
- Anti Reflective AR Glass 6mm Vandal-Resistance
- Anti Reflective AR Glass 8mm Vandal-Resistance
- Anti Glare AG Glass 3mm

