

# Industrial Stainless Steel Panel Mount IP65/NEMA4

NEMA4x/IP65 Front Stainless Steel Panel Mount (Front Bezel 3mm)  
20.1" LCD monitor, 1600 x 1200, 300 nits VGA Input, Side OSD, including  
rear screw/VESA Mount without gasket (Recommend Silicone seal) with 5  
Wire Resistive Touch Screen and USB Controller

**Model: ESPM2000B-TR**

**ESPM Series:** Front NEMA4X/IP65 Industrial Stainless Steel Panel Mount Metal (3mm) Housing LCD Monitor

## FEATURES HIGHLIGHTS:



**Stainless steel 3mm Panel Mount (Optional for Front AR Glass or Vandal Resistant glass)**

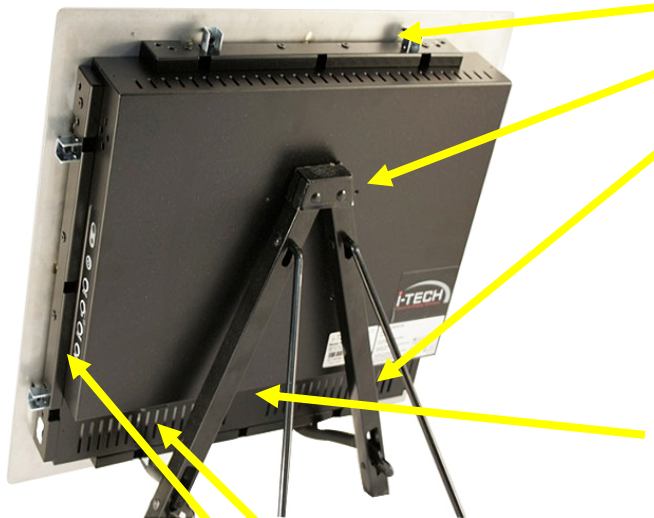
**NEMA4/ IP65 Front Anti Water proof and Dust Proof**

**Optional for Resistive/ Capacitive/ SAW/ IR/ Projective Capacitive Touch screen**

**Auto Video Signal ON / OFF  
Auto Always Power On**

### **Auto Power on and Video signal on/off:**

The LCD is always on whenever there is a power; this functionality eliminates the need to manual turn on the LCD. Also, you can control the LCD backlight on/off by video signal. LCD backlight will shut down when no video signal, but LCD backlight will wake up when the video signal is back on.



**For easy installation with Clamps mount**

**VESA Mounting Hole Pattern**

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

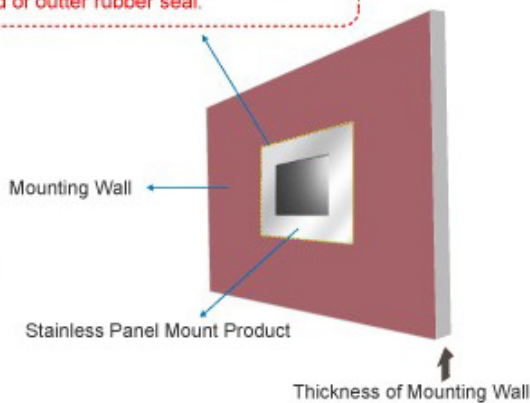


**Standard VGA Input  
(Optional for DVI, HDMI, AV, BNC, AV looping and SDI)**

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

**Side OSD buttons can prevent unnecessary setting changes.**

Stainless Steel Front Bezel is without to have outer rubber seal (O-ring). Please apply silicon to instead of outer rubber seal.



## FEATURES:

- Modularize mechanical design provides flexible product configuration and easy maintenance.
- IP65 Front side sealed for water-dust proof.
- Available with auto-brightness sensor offers application day and night.
- VGA connector with optional AV.SV.AV-Looping.
- Complete custom design/solution for OEM customers
- Auto Power On: Monitor is always "ON" when connect to power.
- Auto Video Signal On: Monitor (Backlight) will turn off when no video signal, but it will Auto turn back on.

## SPECIFICATIONS:

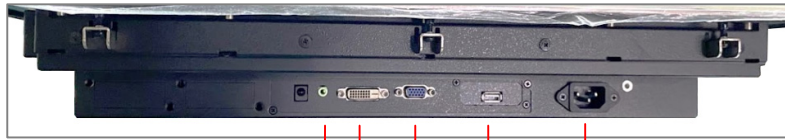
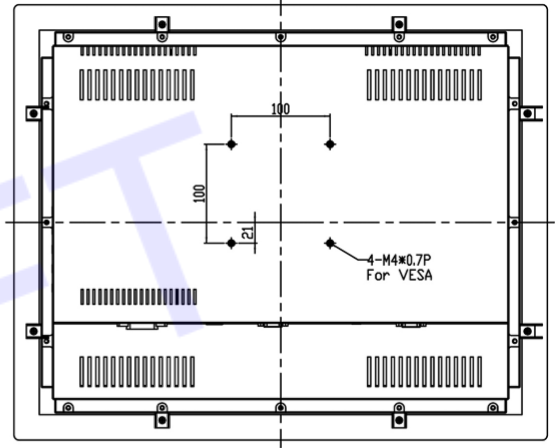
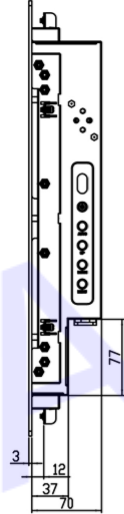
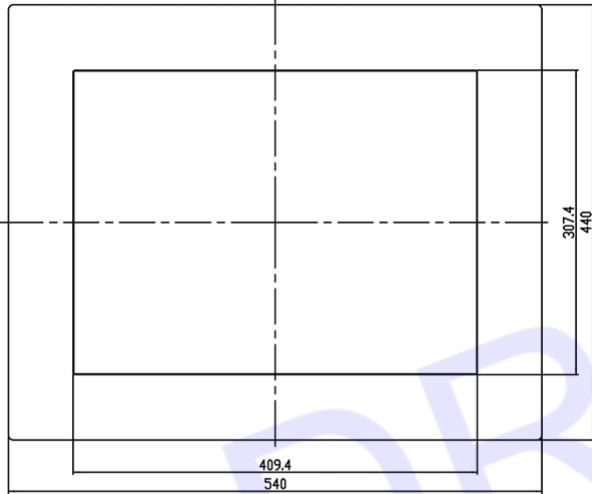
Panel	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating	
	Aspect Ratio / Size	4:3 / 20.1" viewable diagonal area	
	Active Area / Pixel Pitch	409.4(H) x 307.4(V) mm / 0.255(H) x 0.255(V) mm	
	Native Resolution / Colors	1600(H) x 1200(V) / 16.7 Million	
	Brightness / Contrast	300 cd/m2 (typ) / 1000 :1	
	Response Time	^ 8 ms	
	Viewing Angle (typical)	H. 160° (- 80° ~ + 80°) , V 160°(- 80° ~ + 80°)	
	Light Source	CCFL , Long life, 50,000 hrs (typ)	
Input Sources	PC System	Signal	Analog RGB (0.7/1.0 V <sub>p-p</sub> , 75 ohms)
		Sync	Separate Sync, Composite Sync, Sync On Green
		Frequency	F <sub>H</sub> : 30 - 82Khz , F <sub>V</sub> : 50 -75Hz
Audio System	Optional		
Input Terminals	1 x VGA (15 Pin Female D-Sub), 1 x PC Audio (Stereo Headphone Jack), 1 x DC Power Plug		
Convenient Features	IP65 Front side sealed for water-dust proof		
	Auto Calibration , Back Light Adjustment, Plug&Play (VESA DDC/CI, DDC 2B)		
	OSD Multi-Languages , Wall Mount Ready (VESA 75 x 75 mm)		
Power	External AC-to-12VDC power adapter with universal / Auto-Sensing, AC 90 to 260V, 50 / 60 Hz		
Power Consumption	Operation / Power Saving	40 watt, < 5 watt (Support DPMS)	
Operating Condition	Temperature / Humidity	0°C ~ 50°C (32°F ~ 122°F), 10% ~ 90% (no condensation)	
Storage Condition	Temperature / Humidity	- 20°C ~ 60°C (- 4°F ~ 140°F), 10% ~ 90% (no condensation)	
Certification	FCC,CE		
Dimensions	Physical	W x H x D = 540.0 x 440.0 x 73.0 mm	
	Carton	W x H x D = TBD	
Weight	N.W. / G.W.	7.7 Kgs / 8.7 Kgs	
Container Loaded	20ft / 40ft / 40ft HQ	TBD (Sets , By pallet)	

Options	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

\*Specifications subject to change without notice, not responsible for typographical errors.

# MECHANICAL DRAWING:

This is subject to change without Notice. Final Drawings Will be Provided for Approval after Order.



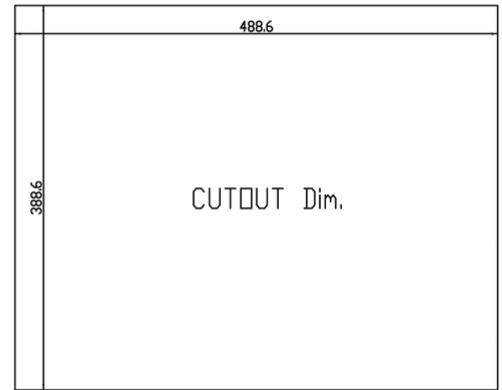
AUDIO  
(Stereo Headphone Jack)

DVI Input

90 ~ 260 VAC  
Power Input

USB for Touch

VGA Input



Drawing No.: ESPM2000B-TR-02162024-V1

## 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 of touchscreen technology to choose which 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 <sup>2</sup> )	Hard Coated (SiO <sup>2</sup> )	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.



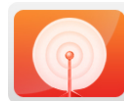
### RS-232 Remote Control Options

**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