

Full IP67 Chassis Mount Dust and Waterproof LCD



IP67 Chassis 23.1" LCD monitor, 1600 x 1200, LED 400 nits, VGA input, w/o Speaker, w/ Ext. Adapter, IP67 cables, SECC Metal w/ Powder coating
(Model: ECH7-2310)



**Immersion
Protected
(up to 1 meter)**



**Vibration
Safeguards**



**Shock
Safeguards**



**Low
Power**

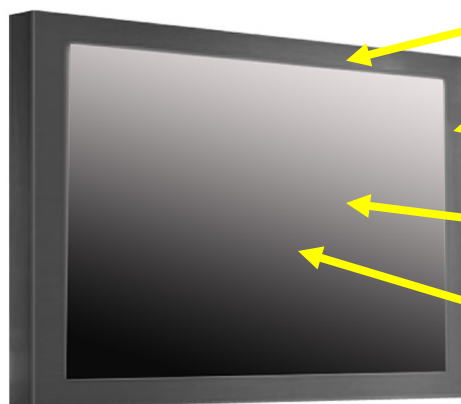


**Wide
Viewing**

Features:

- Modular mechanism design provides flexible product configuration and easy maintenance.
- Optional to built-in touch screen for interactive application.
- Available with auto-brightness sensor offers application in day and night.
- SECC + Powder coating
- Complete custom design/solution for OEM customers
- IP67 Compliant
- Protected against temporary immersion (up to 1 meter for 30 minutes)
- MIL-STD Compliant Connector

Rugged Completely Sealed IP67/NEMA6 Chassis/Surface Mount LCD Monitor



**Water Proof Solution,
Full IP NEMA6 Rating
front and back**

**Aluminum Housing
Chassis Design**

**AR Glass
Protective Glass at
front**

**Optional High
Brightness and
Touch screen**

*** IP67 Water and Dust proof
connection for a higher protection**

*** All Connectors are facing backward**



Specification:

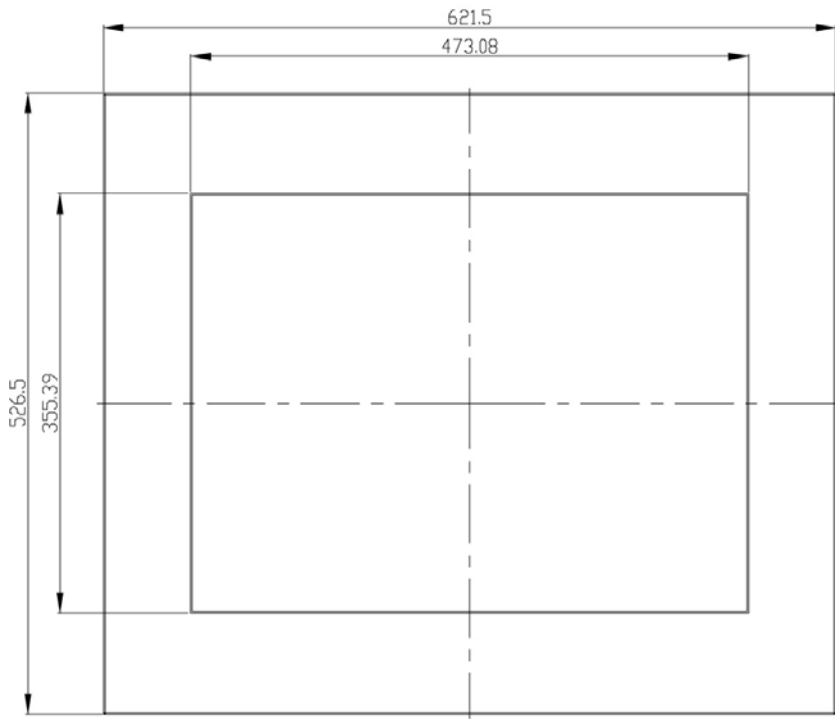
Panel	Cell Type / Glass Surface	TFT LCD / Black Anti-Glare, low reflection coating	
	Aspect Ratio / Size	4 : 3 / 23.1" viewable diagonal area	
	Active Area / Pixel Pitch	470.4(H) x 352.8(V) mm / 0.294(H) x 0.294(V) mm	
	Native Resolution / Colors	1600(H) x 1200(V) / 16.7 M	
	Brightness / Contrast	400 cd/m ² (typ) / 600 : 1	
	Response Time	≤ 8ms (G-to-G)	
	Viewing Angle (typical)	H. 160o (- 80o ~ + 80o) , V. 160o(- 80o ~ + 80o)	
	Light Source	LED backlight, Long life, 35,000 hrs (typ)	
Input Sources	PC System	Signal	Analog RGB (0.7/1.0 V _{p-p} , 75 ohms)
		Sync	Separate Sync, Composite Sync, Sync On Green
		Frequency	F _h : 30 - 82Khz , F _v : 50 -75Hz
	Audio System	2W speaker x 2	
Input Terminals	1 x VGA (15 Pin Female D-Sub) , 1 x PC Audio (Stereo Headphone Jack) , 1 x DC Power Plug		
Convenient Features	Auto Calibration , Back Light Adjustment , Plug&Play (VESA DDC/CI, DDC 2B)		
	OSD Multi-Languages , Wall Mount Ready (VESA Dimension - please refer to Drawing)		
Power	External AC-to-12VDC power adapter with universal / Auto-Sensing, AC 90 to 260V, 50 / 60 Hz		
Power Consumption	Operation / Power Saving	117.5 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	Please refer to Drawing	
	Carton	W x H x D = TBD	
Weight	N.W. / G.W.	12 Kgs / 13.5 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

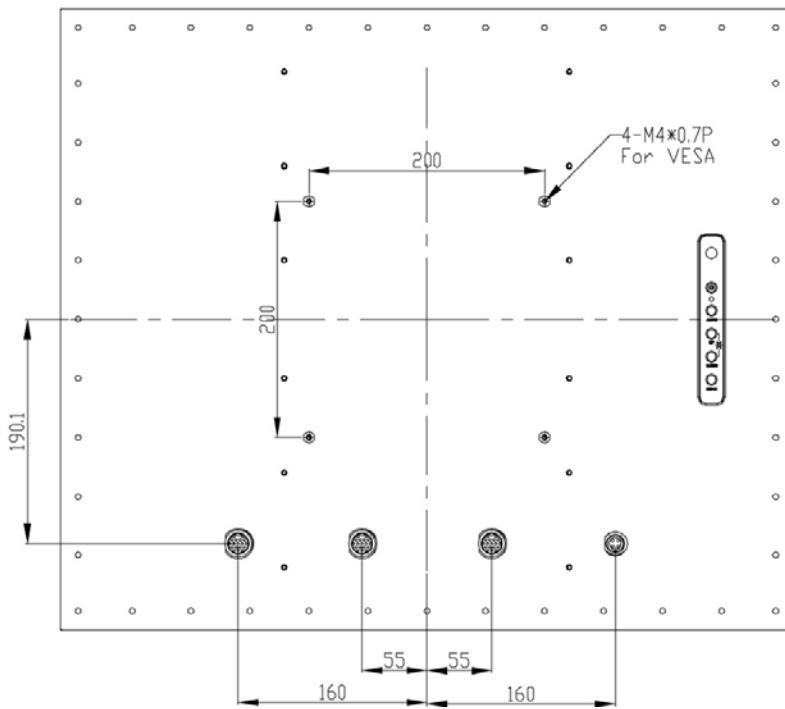
Applications:

- Automation
- Batch Processing
- Commercial Broadcast Operations
- Man Machine Interface (MMI) Operation
- Electronic Flight Bag (EFB)
- Food Processing
- GPS Mapping Systems
- Inspection Systems

Mechanical Drawing:



4-M4x0.7P USER HOLD (R/L)



LCD Options:



LED Backlight Options

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



VIDEO Input Options:

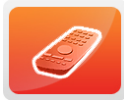
For Video inputs options:

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