




Front IP65 / AR glass Industrial

Chassis/Wall/VESA Mount Metal Housing , 4:3, 23.1" LCD monitor, 1600x1200, 500 nits, VGA+DVI input, Side OSD, VGA, DVI and 100~240VAC power cord SHARP / LQ231U1LW31)

MODEL: ECH2300V1

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

FEATURES:

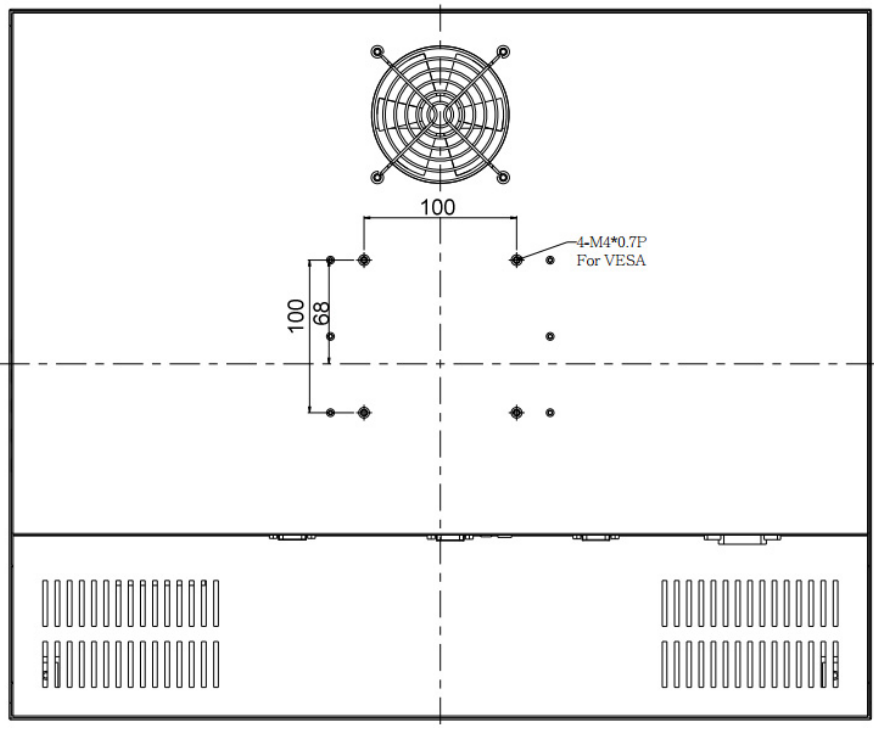
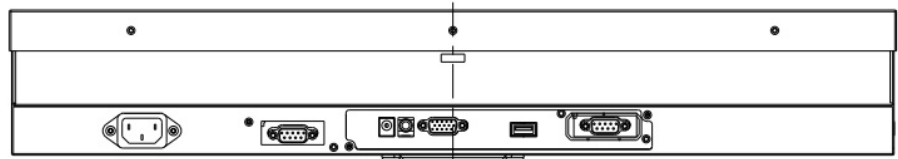
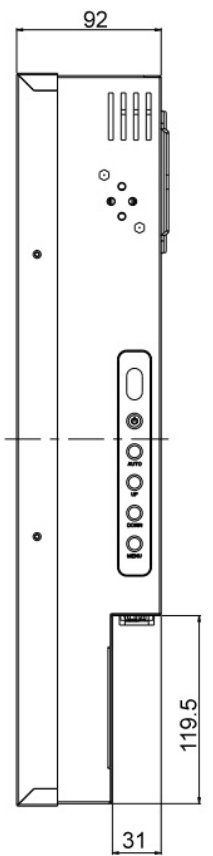
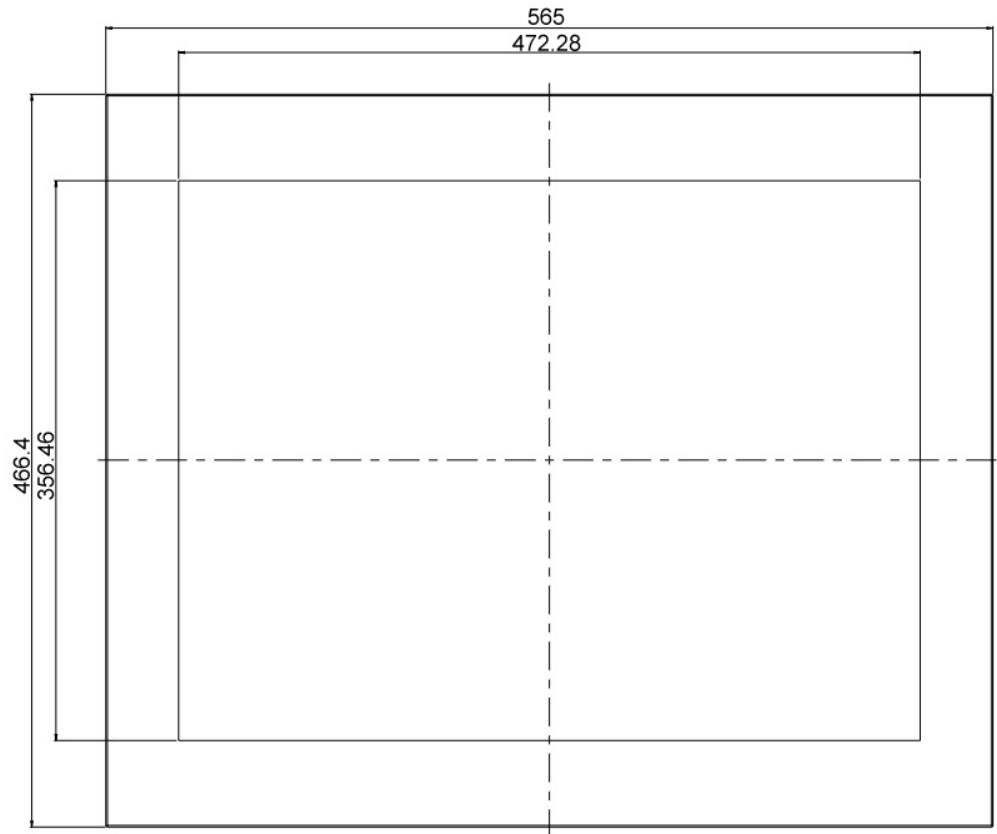
- Modularize mechanical design provides flexible product configuration and easy maintenance
- Optional build-in touch screen for interactive application
- Available with auto-brightness sensor offers application in day and night
- VGA connector with optional AV,SV,AV-Looping
- Complete custom design/solution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

SPECIFICATION:

| | | | |
|----------------------------|--|---|---|
| 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 | 500 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 | 100~240VAC | | |
| 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 |
| | Protected glass | SV + AV | Panel with LED backlight | Digital Signage(Stand alone) |
| | | SV + AV + AV_Looping | High brightness panel | Networking Digital Signage |
| | | SV + AV + TV | Wide Temperature | Motion Sensor |
| | | | Sunlight Readable | Light Sensor |
| | | | | 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) |
|-------------------------------|--|--|--|--|--|--|
| PRODUCT SIZE | 1.7" - 24" | 10.4" - 24" | 15" - 19" | 12" - 24" | 10.4" - 30" | 10.4" - 42" |
| TOUCH LIFE | 1 - 2 million touches | 30 - 35million touches | 100 million touches | 100 million touches | 50 million touches | Long-term reliability |
| SCRATCH RESISTANCE | Hard Coated | Hard Coated | Hard Coated (SiO ₂) | Hard Coated (SiO ₂) | Glass Overlay Moh's hardness rating of 7 | Glass Overlay Moh's hardness rating of 7 |
| CONTAMINANT RESISTANCE | 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 |
| INPUT METHOD | Finger, Gloved Hand, Stylus | Finger, Gloved Hand, Stylus | Stylus Pen | Finger | Finger, Gloved Hand, Soft pliable stylus | Finger, Gloved Hand, Stylus |
| CONTROLLER | USB, RS232 | USB, RS232 | USB, RS232 | USB, RS232 | USB, RS232 | USB, RS232 |



VIDEO Input Options:

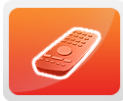
For Video inputs options:

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.



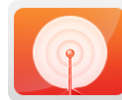
RS-232 Remote Control Options

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