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## Provide a variety of sizes of HMIs







# *i*E-Series 4.3"/7"/10.1"

- Ultra-slim form factor enables MT8000iE-Series can be installed in any industrial application environment.
- Brand new look and color design with perfect aesthetic sense.
- Equipped with powerful Cortex A8 600MHz CPU.
- Built-in isolated RS-485 interface ensures the HMI reliability in any complicated grounding environment.
   (MT8050iE & MT6070iE excluded)
- PCB coating protection to prevent moisture corrosion in harsh environments. (MT6070iE excluded)
- Comply with IP65 rating and CE testing standards.
- Offer more than 250 drivers to connect with various controllers.

# Improve performance in all aspects





### XE-Series 12.1"/15"

- Two large sizes of HMIs (12.1", and 15") are optimal for industrial control application in various environments.
- Aluminum enclosure shows exquisite appearance.
- High-resolution (1024 x 768 pixels) with 16.2M colors display.
- Equipped with powerful Cortex A8 1GHz CPU.
- Built-in isolated RS-485 interface ensures the HMI reliability in any complicated grounding environment.
- PCB coating protection to prevent moisture corrosion in harsh environments.
- Comply with IP65 rating and CE testing standards.
- Offer more than 250 drivers to connect with various controllers.



#### Built-in isolated RS-485

In industrial control environments, the ground voltage of each device may be different. When connecting multiple devices such as a PLC, Servo and Inverter to the RS-485 port of the HMI, the ground voltage difference of these devices may damage the interface components. Thus, the built-in isolated RS-485 design can effectively avoid the ground potential difference problem and ensure your HMI endurable in any complicated grounding environment.

RS-485

(Isolated)

RS-232



EXT0V



Ethernet

#### **Aluminum Enclosure**

Aluminum enclosure greatly improves the reliability of the XE-Series.

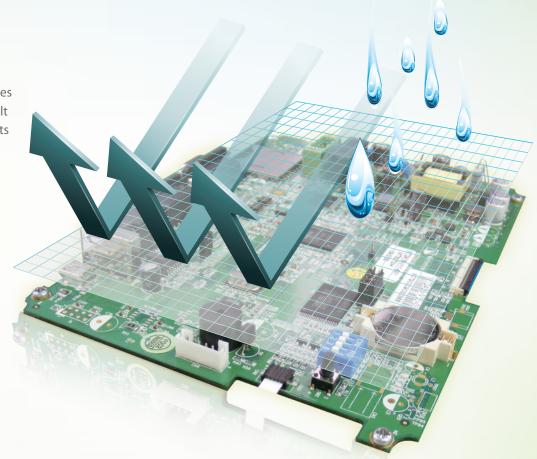
|                    |          | iE-Se    | XE-Series |          |          |          |
|--------------------|----------|----------|-----------|----------|----------|----------|
|                    | MT8050iE | MT6070iE | MT8070iE  | MT8100iE | MT8121XE | MT8150XE |
| Isolated RS-485    |          |          | •         | •        | •        | •        |
| Aluminum Enclosure |          |          |           |          | •        | •        |





#### **PCB** Coating Protection

As the electronic component gets smaller, the copper wires of the PCB are getting thinner. The thin cooper wires result in corrosion of PCB easily, especially in harsh environments with high humility, corrosive air, etc. Thus, to prevent the PCB corrosion, using the PCB coating can enhance the strength of the damp-proof, dust-proof and corrosion resistance in any harsh environments.







#### Comply with IP65 rating and CE testing standards

WEINTEK iE-Series and XE-Series are all rated to IP65 and in compliance with CE testing standards to ensure long life and durability for optimum performance.

|             |          | iE-Se    | XE-Series |          |          |          |
|-------------|----------|----------|-----------|----------|----------|----------|
|             | MT8050iE | MT6070iE | MT8070iE  | MT8100iE | MT8121XE | MT8150XE |
| PCB Coating | •        |          | •         | •        | •        | •        |
| IP65 \ CE   | •        | •        | •         | •        | •        | •        |



- High speed of communication improves the efficiency of database operations.
- Fast change a window which contains many complex objects.
- With 16.2M colors display, the HMI shows realistic graphics and operating objects that enable plant personnel can quickly control the on-site status.

|            |          | iE-Se    | XE-Series |          |          |          |
|------------|----------|----------|-----------|----------|----------|----------|
|            | MT8050iE | MT6070iE | MT8070iE  | MT8100iE | MT8121XE | MT8150XE |
| CPU 600MHz | •        | •        | •         | •        |          |          |
| CPU 1GHz   |          |          |           |          | •        | •        |

### EasyBuilder Pro

#### Powerful, Easy to Use

- Continually update and improve the user interface and functions based on diverse usage behaviors.
- Fully-compatible with EasyBuilder 8000, thus it reduces the software switching cost.
- Off-line simulation to preview the result without connecting an HMI and a PLC.
- All the graphics are embedded when uploading/downloading the project file.

#### **1** Function Bar

• Grouped by different functions and shown in simple icons to facilitate the usage.

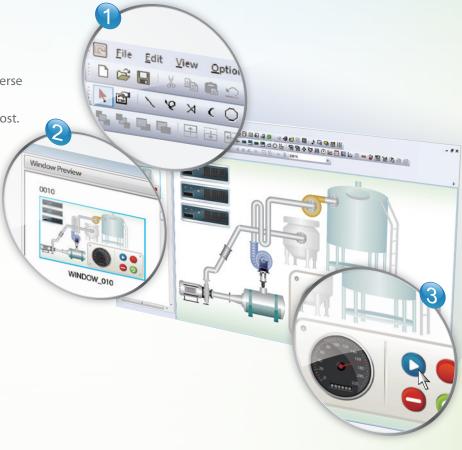
#### **Window Bar**

- Show the number of windows and their names.
- Show all the object names and addresses that a window contains.
- Window Preview can preview all the display of windows.

#### **6** Main Window

• Easy to create any functional objects and design the user interface.





#### **Extensive Graphic Libraries**

- Built-in sufficient high-quality graphics to fulfill your need.
- Support to import different graphic types included gif, bmp, jpg, png, and svg.

|                           |          | iE-Se    | XE-Series |          |          |          |
|---------------------------|----------|----------|-----------|----------|----------|----------|
|                           | MT8050iE | MT6070iE | MT8070iE  | MT8100iE | MT8121XE | MT8150XE |
| EasyBuilder Pro           | •        | •        | •         | •        | •        | •        |
| Extensive Graphic Library | •        | •        | •         | •        | •        | •        |



#### Support more than 250 Communication **Drivers**

The HMIs are not only equipped with RS-232/RS-485(2W and 4W) and the Ethernet(10/100M Base-T), but also support more than 250 communication drivers to connect to most of PLC, Servo, Inverter, temperature controller, barcode scanner, etc. on the market. Those features are well-suited for industrial environments and can be a perfect solution to monitor and control your system.

#### **Built-in various Communication Interfaces**

- USB Host Port
- Download a project to the HMI or Upload it from USB drive to PC.
- Save historical data and event log to your USB drive.
- Connect to a mouse, printer, barcode scanner, etc.
- USB Client Port
- Download a project to the HMI or Upload it to your PC.
- Upload the historical record.
- Upload/Download recipe data.
- SD Card Slot
- Download a project to the HMI or Upload it from SD card to PC.
- Save historical data and event log.









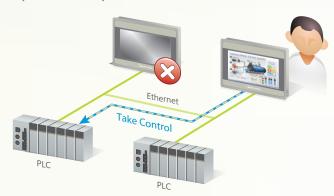
Barcode Scanner

- Upload the historical record
- Upload/Download project file
- Upload/Download recipe data
- Save historical data and event log
- Upload/Download project file

|  | iE-Series |          |          |          | XE-Series |          |
|--|-----------|----------|----------|----------|-----------|----------|
|  | MT8050iE  | MT6070iE | MT8070iE | MT8100iE | MT8121XE  | MT8150XE |
| Offer more than 250 Drivers                | •         | •        | •        | •        | •         | •        |
| Upload/Download project file via USB cable |           | •        |          |          | •         | •        |
| USB Host Port                              | •         | •        | •        | •        | •         | •        |
| USB Client Port                            |           | •        |          |          | •         | •        |
| SD Card Slot                               |           |          |          |          | •         | •        |

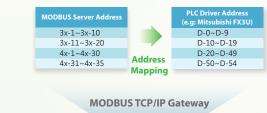
#### Redundant Network

 When multiple HMIs connect to corresponding PLCs, if one of HMIs is out of service, the PLC will be controlled by the other HMI instantly. Thus, this feature greatly improves the availability and the reliability of HMIs.



#### Modbus TCP/IP Gateway

- Since the MODBUS is the most widely used protocol in industrial control, most SCADA software supports the Ethernet Modbus TCP/IP.
- After mapping the address of MODBUS TCP/IP and PLC in EasyBuilder Pro, the SCADA software can directly read or modify PLC data via MODBUS TCP/IP protocol.





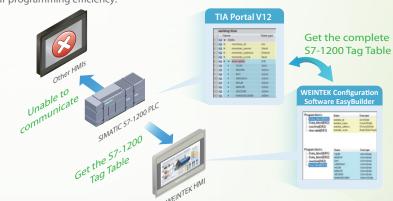
#### **Pass-Through Communication**

- Do HMI programming by connecting your computer.
- Do project on-line simulation by connecting the HMI to the PLC.
- Program the PLC without disconnecting the PLC from the HMI.
- Download the revised PLC program through the HMI to the PLC.
- Implement in either COM Port or Ethernet mode.
- Supported PLCs included: DELTA DVP, FATEK FB Series, LS XEC/XGI CPU DIRECT, Mitsubishi FX0s/FX0n/FX1s/FX1n/FX2, Mitsubishi FX3u/FX3G, Mitsubishi Q00U/Q01U/Q02U/QnUD/QnUDH, OMRON CJ/CS/CP, Panasonic FP, etc.



#### Get the complete PLC Tag Table

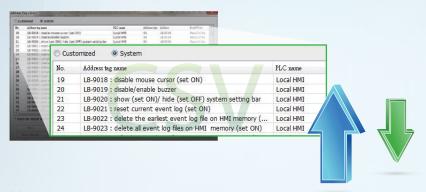
 Support the Tag-table of PLCs included SIMATIC S7-1200, OMRON NJ-Series, and Allen-Bradley. This feature greatly reduces the project development period and improves your programming efficiency.



|                       | iE-Series |          |          |          | XE-Series |          |  |
|-----------------------|-----------|----------|----------|----------|-----------|----------|--|
|                       | MT8050iE  | MT6070iE | MT8070iE | MT8100iE | MT8121XE  | MT8150XE |  |
| Redundant Network     | •         |          | •        | •        | •         | •        |  |
| Pass-Through          | •         | •        | •        | •        | •         | •        |  |
| Modbus TCP/IP Gateway | •         |          | •        | •        | •         | •        |  |
| Support PLC Tag Table | •         |          | •        | •        | •         | •        |  |

#### **Address Tag Library**

- Create a list of tag names assigned to corresponding PLC addresses in order to make those PLC addresses more readable.
- Tags can be easily imported and exported as CSV files.



#### Macros

- Similar to VB-Script, you can design a desired feature.
- Support the user-defined protocol to connect with other communication devices.
- Perform arithmetic operations, logical operations, and string manipulations.
- Execute regular or repeated commands to reduce program loading time.
- The user-defined function improves the flexibility of Macro Library.



#### **Label Tag Library**

- Enable a multi-language environment, included: Traditional Chinese, Simplified Chinese,
   Japanese, Korean, German, French, Spanish, Portuguese, Italian, Arabic, etc.
- Support up to eight different languages at the same time.



#### **Recipe Database**

- A Recipe is a collection of data of the same attributes records that are stored in a non-volatile memory
- Provide sufficient and secure recipe data storage to ensure that those data are intact and secure under any circumstances.
- Provided visual objects enable you to transfer recipe data by pressing buttons intuitively.
- Recipe Database can be created, edited, and deleted by Macros.
- All the recipe records can be on-line updated and monitored to ensure the accuracy and consistency of data.



Visual objects make data transfer more intuitive

Automatically assign PLC register addresses to recipe data

|                     |          | iE-S     | XE-Series |          |          |          |
|---------------------|----------|----------|-----------|----------|----------|----------|
|                     | MT8050iE | MT6070iE | MT8070iE  | MT8100iE | MT8121XE | MT8150XE |
| Address Tag Library | •        | •        | •         | •        | •        | •        |
| Label Tag Library   | •        | •        | •         | •        | •        | •        |
| Macro               | •        | •        | •         | •        | •        | •        |
| Recipe Database     | •        | •        | •         | •        | •        | •        |

#### **Enhanced Account Management**

- Up to 127 user accounts can be added. The user passwords must be alphanumeric.
- Each object or function can be set a security class (Class A to Class L) and each user can be assigned one or more security classes to control the object. Administrator has privileges to operate all objects and functions.
- The features of adding temporary account, setting the account priority, and importing user accounts from SD card or USB greatly improve the flexibility of account management.



#### **USB Security Key**

- Automatically log in the HMI after inserting your USB which is stored a default account and its password.
- The default password will expire in a specified number of days.



#### **Project Security**

- Decompiling Limitation: Either prevent decompiling of a project, or set a password when compiling your project to prevent unauthorized decompiling.
- Project Password : Secure your project and prevent it from being modified without the correct password.
- Project Key: The project is restricted to run on a specific HMI. It is identified by the project unique password (Project Key) and its HMI matching password (HMI Key).



#### **Operation Log**

- Each operation will be logged in operator historical records and saved in CSV files in order to track changes.
- Save to a CSV file and help the review and investigation of important events.
- Print to hard copy for the signed agreement.



|                             | iE-Series |          |          |          | XE-Series |          |
|-----------------------------|-----------|----------|----------|----------|-----------|----------|
|                             | MT8050iE  | MT6070iE | MT8070iE | MT8100iE | MT8121XE  | MT8150XE |
| Enhanced Account Management | •         | •        | •        | •        | •         | •        |
| Project Security            | •         | •        | •        | •        | •         | •        |
| USB Security Key            | •         | •        | •        | •        | •         | •        |
| Operation Log               |           |          |          |          | •         | •        |









| Chacification |                        |   |   |  |  |
|---------------|------------------------|---|---|--|--|
| Specification | Model                  | MT8050iE                                    | MT6070iE                                    | MT8070iE                                   | MT8100iE                                   |
|               | Display                | 4.3" TFT                                    | 7" TFT                                      | 7" TFT                                     | 10.1" TFT                                  |
| Resolution    |                        | 480 x 272                                   | 800 x 480                                   | 800 x 480                                  | 800 x 480                                  |
|               | Brightness (cd/m²)     | 500   | 350   | 350  | 300  |
| Display       | Contrast Ratio         | 500:1                                       | 500:1                                       | 500:1                                      | 500:1                                      |
|               | Backlight Type         | LED   | LED   | LED  | LED  |
|               | Backlight Life Time    | >30,000 hrs.                                | >30,000 hrs.                                | >30,000 hrs.                               | >30,000 hrs.                               |
|               | Colors                 | 16M   | 16M   | 16M  | 262K                                       |
|               | Туре                   | 4-wire Resistive Type                       | 4-wire Resistive Type                       | 4-wire Resistive Type                      | 4-wire Resistive Type                      |
| Touch Panel   | Accuracy               | Active Area Length(X)±2%, Width(Y)±2%       | Active Area Length(X)±2%, Width(Y)±2%       | Active Area Length(X)±2%, Width(Y)±2%      | Active Area Length(X)±2%, Width(Y)±2%      |
| Momony        | Storage (MB)           | 128 MB                                      | 128 MB                                      | 128 MB                                     | 128 MB                                     |
| Memory        | RAM (MB)               | 128 MB                                      | 128 MB                                      | 128 MB                                     | 128 MB                                     |
| Processor     |                        | 32 bits RISC Cortex-A8 600MHz               | 32 bits RISC Cortex-A8 600MHz               | 32 bits RISC Cortex-A8 600MHz              | 32 bits RISC Cortex-A8 600MHz              |
|               | USB Host               | USB 2.0 x 1                                 | USB 2.0 x 1                                 | USB 2.0 x 1                                | USB 2.0 x 1                                |
|               | USB Client             | N/A   | USB 2.0 x 1                                 | N/A  | N/A  |
| I/O Port      | Ethernet               | 1 RJ45 port (10/100 Base-T)                 | N/A   | 1 RJ45 port (10/100 Base-T)                | 1 RJ45 port (10/100 Base-T)                |
|               | COM Port               | Com1:RS-232/RS-485 2W/4W,<br>Com3:RS-485 2W | Com1:RS-232/RS-485 2W/4W,<br>Com3:RS-485 2W | Com1:RS-232/RS-485 2W/4W<br>Com3:RS-485 2W | Com1:RS-232/RS-485 2W/4W<br>Com3:RS-485 2W |
| RTC           |                        | Built-in                                    | Built-in                                    | Built-in                                   | Built-in                                   |
| KIO           | Input Power            | 24±20%VDC                                   | 24±20%VDC                                   | 24±20%VDC                                  | 24±20%VDC                                  |
|               | Power Consumption      | 300mA@24VDC                                 | 350mA@24VDC                                 | 350mA@24VDC                                | 400mA@24VDC                                |
| _             | Voltage Resistance     | 500VAC (1 min)                              | 500VAC (1 min)                              | 500VAC (1 min)                             | 500VAC (1 min)                             |
| Power         | Isolation Resistance   | Exceed 50MΩ at 500VDC                       | Exceed 50MΩ at 500VDC                       | Exceed 50MΩ at 500VDC                      | Exceed 50MΩ at 500VDC                      |
|               | 1001011011110010101100 | 10 to 25Hz                                  | 10 to 25Hz                                  | 10 to 25Hz                                 | 10 to 25Hz                                 |
|               | Vibration Endurance    | (X, Y, Z direction 2G 30 minutes)           | (X, Y, Z direction 2G 30 minutes)           | (X, Y, Z direction 2G 30 minutes)          | (X, Y, Z direction 2G 30 minutes)          |
|               | Enclosure              | Plastic                                     | Plastic                                     | Plastic                                    | Plastic                                    |
|               | Dimensions WxHxD       | 128 x 102 x 32mm                            | 200.3 x 146.3 x 34mm                        | 200.3 x 146.3 x 34mm                       | 271 x 213 x 40mm                           |
| Specification | Panel Cutout (mm)      | 119 x 93 mm                                 | 192 x 138mm                                 | 192 x 138mm                                | 260 x 202mm                                |
|               | Weight (kg)            | Approx. 0.25 kg                             | Approx. 0.6 kg                              | Approx. 0.6 kg                             | Approx. 1.3 kg                             |
|               | Protection Structure   | NEMA4 / IP65                                | NEMA4 / IP65                                | NEMA4 / UL Type 4X (Indoor) / IP65         | NEMA4 / UL Type 4X (Indoor) / IP65         |
| Environment   | Storage Temperature    | -20°~60°C (-4° ~ 140°F)                     | -20°~60°C (-4° ~ 140°F)                     | -20°~60°C (-4° ~ 140°F)                    | -20°~60°C (-4° ~ 140°F)                    |
|               | Operating Temperature  | 0° ~ 50°C (32° ~ 122°F)                     | 0° ~ 50°C (32° ~ 122°F)                     | 0° ~ 50°C (32° ~ 122°F)                    | 0° ~ 50°C (32° ~ 122°F)                    |
|               | Relative Humidity      | 10% ~ 90% @ 40°C (non-condensing)           | 10% ~ 90% @ 40°C (non-condensing)           | ` '  | 10% ~ 90% @ 40°C (non-condensing)          |
|               | C€                     | CE marked                                   | CE marked                                   | CE marked                                  | CE marked                                  |
| Certificate   | (UL)                   | Pending                                     | N/A   | cULus Listed                               | cULus Listed                               |
| Software      |                        | EasyBuilder Pro                             | EasyBuilder Pro                             | EasyBuilder Pro                            | EasyBuilder Pro                            |

<sup>\*</sup> Specifications subject to change without notice.

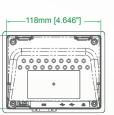


# MT8050iE . 128mm [5.039"]

Front View

102mm [4.016"]

92mm [3.622"]



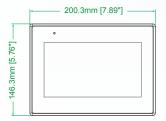
Rear View



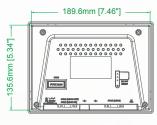


**Cutout Dimensions** 

#### MT6070iE

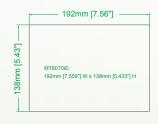


Front View



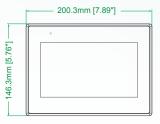
Rear View



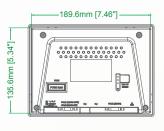


**Cutout Dimensions** 

#### MT8070iE



Front View



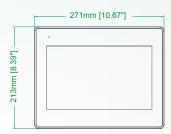
Rear View



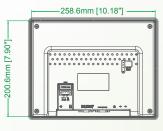


**Cutout Dimensions** 

#### MT8100iE



Front View



Rear View





**Cutout Dimensions** 

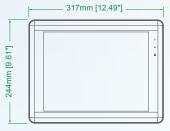




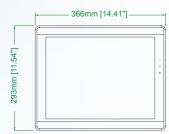
| Specification | Model                 | MT8121XE                              | MT8150XE                                 |  |
|---------------|-----------------------|---------------------------------------|--|--|
|               | Display               | 12.1" TFT                             | 15" TFT                                  |  |
|               | Resolution            | 1024 x 768                            | 1024 x 768                               |  |
|               | Brightness (cd/m²)    | 500                                   | 400                                      |  |
| Display       | Contrast Ratio        | 700:1                                 | 700:1                                    |  |
|               | Backlight Type        | LED                                   | LED                                      |  |
|               | Backlight Life Time   | >50,000 hrs.                          | >50,000 hrs.                             |  |
|               | Colors                | 16.2M                                 | 16.2M                                    |  |
|               | Туре                  | 4-wire Resistive Type                 | 4-wire Resistive Type                    |  |
| Touch Panel   | Accuracy              | Active Area Length(X)±2%, Width(Y)±2% | Active Area Length(X)±2%,<br>Width(Y)±2% |  |
|               | Storage (MB)          | 256 MB                                | 256 MB                                   |  |
| Memory        | RAM (MB)              | 256 MB                                | 256 MB                                   |  |
| Processor     | ,                     | 32 bits RISC Cortex-A8 1GHz           | 32 bits RISC Cortex-A8 1GHz              |  |
|               | SD Card Slot          | SD/SDHC                               | SD/SDHC                                  |  |
|               | USB Host              | USB 2.0 x 1                           | USB 2.0 x 1                              |  |
| I/O Port      | USB Client            | USB 2.0 x 1                           | USB 2.0 x 1                              |  |
|               | Ethernet              | 1 RJ45 port (10/100 Base-T)           | 1 RJ45 port (10/100 Base-T)              |  |
|               |                       | Com1:RS-232/RS-485 2W/4W              | Com1:RS-232/RS-485 2W/4W                 |  |
|               | COM Port              | Com3:RS-485 2W                        | Com3:RS-485 2W                           |  |
| RTC           |                       | Built-in                              | Built-in                                 |  |
|               | Input Power           | 24±20%VDC                             | 24±20%VDC                                |  |
|               | Power Consumption     | 800mA@24VDC                           | 1000mA@24VDC                             |  |
| Power         | Voltage Resistance    | 500VAC (1 min)                        | 500VAC (1 min)                           |  |
| Power         | Isolation Resistance  | Exceed 50MΩ at 500VDC                 | Exceed 50MΩ at 500VDC                    |  |
|               | VC C = 1              | 10 to 25Hz                            | 10 to 25Hz                               |  |
|               | Vibration Endurance   | (X, Y, Z direction 2G 30 minutes)     | (X, Y, Z direction 2G 30 minutes)        |  |
|               | Enclosure             | Aluminum                              | Aluminum                                 |  |
| 0             | Dimensions WxHxD      | 317 x 244 x 46mm                      | 366 x 293 x 57mm                         |  |
| Specification | Panel Cutout (mm)     | 305 x 231mm                           | 352 x 279mm                              |  |
|               | Weight (kg)           | Approx. 2.1 kg                        | Approx. 2.75 kg                          |  |
|               | Protection Structure  | NEMA4 / IP66                          | NEMA4 / IP65                             |  |
|               | Storage Temperature   | -20° ~ 60°C (-4° ~ 140°F)             | -20° ~ 60°C (-4° ~ 140°F)                |  |
| Environment   | Operating Temperature | 0° ~ 50°C (32° ~ 122°F)               | 0° ~ 50°C (32° ~ 122°F)                  |  |
|               | Relative Humidity     | 10% ~ 90% @ 40°C (non-condensing)     | 10% ~ 90% @ 40°C (non-condensing         |  |
| 0.455.4       | CE                    | CE marked                             | CE marked                                |  |
| Certificate   | (UL)                  | N/A                                   | N/A                                      |  |
| Software      |                       | EasyBuilder Pro                       | EasyBuilder Pro                          |  |
|               |                       |                                       |  |  |

<sup>\*</sup> Specifications subject to change without notice.

#### MT8121XE

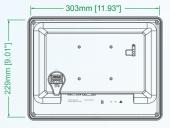


Front View

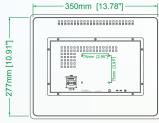


MT8150XE

Front View



Rear View



Rear View







**Cutout Dimensions** 



**Cutout Dimensions** 

