WEINTEK

HMI

Professional In Human Machine Interface

Perfectly Designed
Extremely Easy

Professional in Human Machine Interface

Series

- The combination of fast 400 MHz RISC CPU and powerful EasyBuilder8000 configuration software, i Series can fulfill all you need in a HMI.

- The quality widescreen of i Series offers users more screen space to handle dynamic graphics, and the LED backlights ensure no turning yellow phenomenon on the screen after long-time use.

- The 7" 800x480 widescreen models can satisfy the need in display of high quality.

- A 10" 800x480 widescreen LCD offers 25% more pixel coverage than a 10.4" 640x480 LCD.

- Built-in power isolation technology makes i Series more reliable in noisy environment.

- The direct connection of HMI USB 2.0 client and PC USB interfaces offers high-speed transmission in project and data.

- Usage of USB Flash Drivers or SD memory cards is available for most of the i Series models to make data storing, project download, recipe upload/download, etc. more easily.

- The large 128MB Flash capacity enables users to make their program size up to 16MB and storage space for Event Log, Data Samples, etc. up to 48MB.

Weintek HMI is proven to be in top class by a wide scope of application and numerous assessments, for 15-year experience in research and development, software and hardware included. Being the globally leading HMI supplier, Weintek brings you the whole series of HMI with compact profile, fan-less design, high brightness LCD display, and quick response touch screen. Complying with ISO-9000, our entire research, development, production and shipment are all implemented under rigorous quality control standards. Not only that Weintek products have UL and CE certificates, we go further to meet the requirements of European Union RoHS for the greenness of our beautiful planet.

Weintek HMI is your best choice in the field of industrial control and machinery automation in terms of supervisory control and data processing, and is even suitable for the modern Intelligent Building Automation.
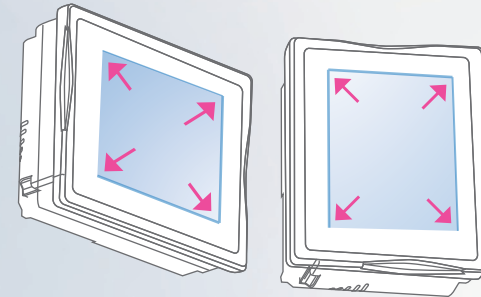
4.3"～10.4" LCD of Complete Production Line
Weintek brings you HMIs with various sized LCD 4.3"~10.4" and rich functionalities to fit in diverse industrial and automation environments.

Landscape and Portrait Screen Display
Freely switch to landscape or portrait display mode for a satisfying fit.

Waterproof / IP65 Rating

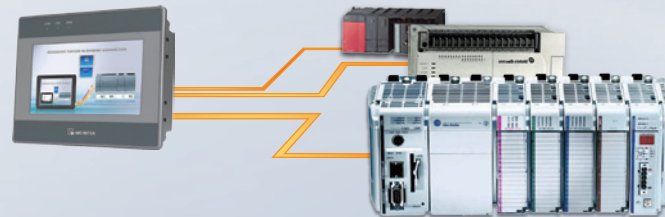All models satisfy NEMA 4/IP65 rating and operate under 0~50°C.

Multiple Communication Interfaces

A variety of interfaces: RS-232/485(2W or 4W), Ethernet and USB port.

ETHERNET

SD CARD

USB STORAGE

USB CABLE

PLC Connection

Compatible with the 150 most common PLC drivers on the market to fulfill the needs for factory automation.

USB Host Interface

USB interface not only supports uploading and downloading projects or data storing, but also allows directly connecting with printers, barcode scanners, mouse, and PLC.

1 2 3 4

SD Card for Data Processing

Support recipe data which is more efficient and provide storage for other data. Compared with USB it saves more storage space being an interface for project uploading and downloading.

Siemens MPI (n-n)

Siemens PPI

Siemens S7-1200
Ethernet (Free Tag)

BACnet / IP

Mitsubishi QnU USB

EtherNet / IP (Free Tag)
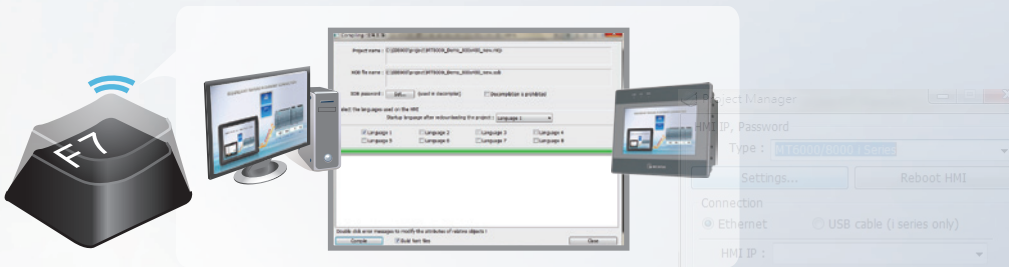
Free Port Protocol

YAMAHA ERCD

| Software

Swiftly Switch HMI Model (Resize to Fit HMIs)

When you would like to use the same project on different sizes of HMIs, you can easily change the screen resolution settings and select the objects or windows to resize in order to fit in the position and size of your HMI model.

10.4"   10"

Convenient Shortcut Keys
Complete downloading with a simple key press.
(Shortcut Key F7)

After saving your project, press key F7 on the keyboard, the project compiling and downloading will automatically be done which greatly shortens the original 3 steps of downloading operation and simplifies your project designing process.

User Friendly Tools Make Screen Editing Easier and Faster. (Screen Editor and Tool Bars)

- Group a number of objects for moving, copying, aligning, making to same size and changing font & size.
- Window Settings to set different background colors, frames and window sizes
- Underlay Window function allows overlapping objects of different windows without influencing objects on main window for easy editing.
- Object Toolbar, Edit Toolbar and Shortcut Toolbar can be placed by user base on actual usage.
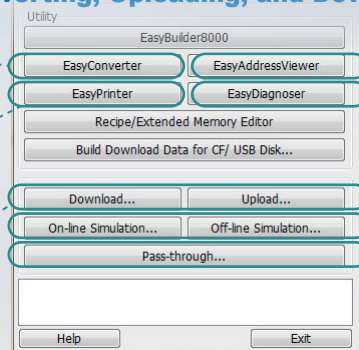
Software

Multiple Tools for Converting, Uploading, and Downloading (Project Manager)

Open EasyConverter or Recipe/Extended Memory Editor to convert History Data or Recipe Data into Excel for editing.

Open EasyPrinter to print, save screen, and backup History Data or Recipe Data.

Directly Download/Upload projects to HMI.

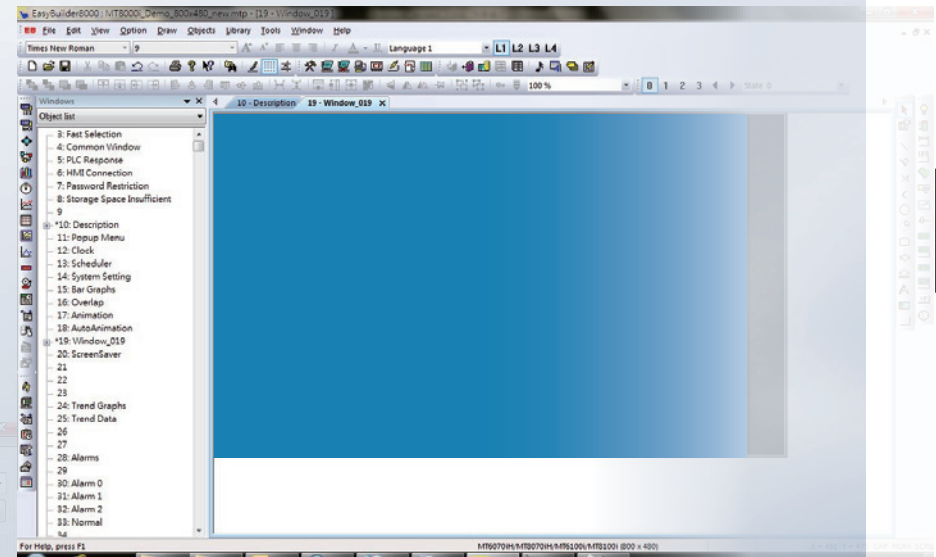Open EasyAddressViewer to view all the supported PLC addresses and range.

Open EasyDiagnoser to monitor communication between HMI and PLC.

On-line/Off-line simulation of project operation.

Pass-through function allows editing, uploading, or downloading PLC Program on PC using PLC software.

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Industrial PC to you

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Smart Window Management
(Window Tree)
● Display the numbers of windows and window names.
● Directly select window to open, view, and edit.
● Display all the object names and addresses on window.
● Window Preview shows the appearance of the windows in thumbnails.
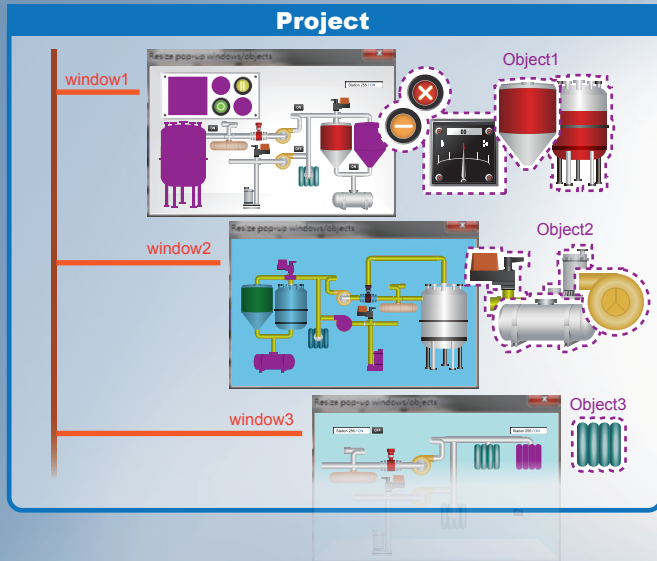
Diverse Theme Picture Libraries Enrich Your Project
## (Picture Libraries and Shape Libraries)
● Different types of industrial graphics are ready for use.
● Thousands of designs are provided to choose from and apply to.
● Various formats are supported for a more flexible application.
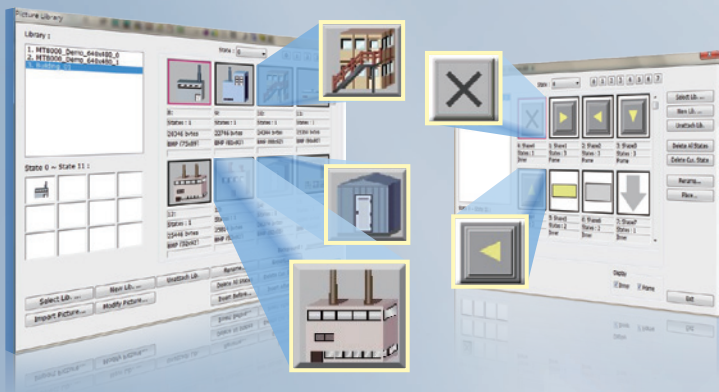
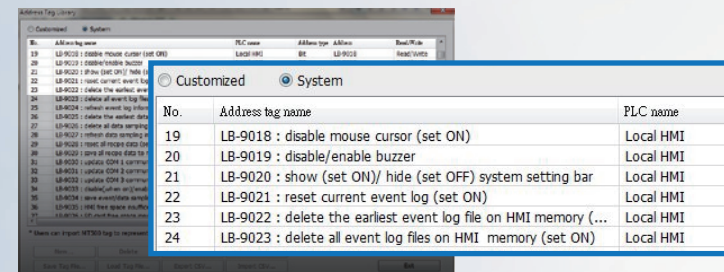

Layered Security Control
Different access levels can be authorized for objects or features to enhance security control.
● Set different classes and passwords for each user and classify the objects so that the settings of important objects can't be arbitrarily revised.
● Objects can be hidden to prevent being mistakenly touched.
● Warning messages will be shown to alert users to unauthorized operation.
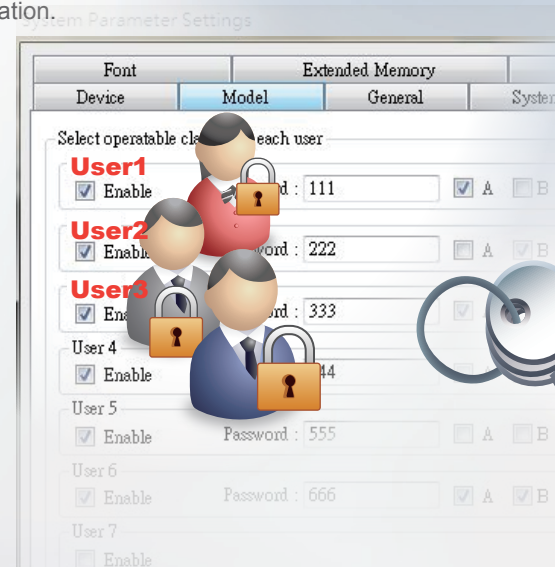
No Need to Input Addresses Repeatedly and Hasten Project Designing.
(Address Tag Library)
● Easy Address Tag setting for the designers to specify Tags that are more readable for different addresses
● Directly add and edit Tag in Address Tag Library, or export to Excel for designing then import back to the Library.

| No.	Address tag name	PLC name
19	LB-9018 : disable mouse cursor (set ON)	Local HMI
20	LB-9019 : disable/enable buzzer	Local HMI
21	LB-9020 : show (set ON)/ hide (set OFF) system setting bar	Local HMI
22	LB-9021 : reset current event log (set ON)	Local HMI
23	LB-9022 : delete the earliest event log file on HMI memory (...	Local HMI
24	LB-9023 : delete all event log files on HMI memory (set ON)	Local HMI

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Different Sounds to Identify Different Operation Status and Alarm (Sound Libraries)

- Using different sounds to confirm current object operation.
- Different sounds including continuous sound can be set for the alarm triggering.
- Continuous sound stops only when the alarm is cleared.

Freely Establish the Desired Label Tag for Displaying Multiple Languages. (Label Tag Library)

Label Tag Library provides multiple columns for inputting different languages to apply in project. Edit the language contents in Excel then import to Label Table or export Label Tag to Excel for editing.

臺灣
Deutschland United States Magyarország
日本 United Kingdom 대한민국 España
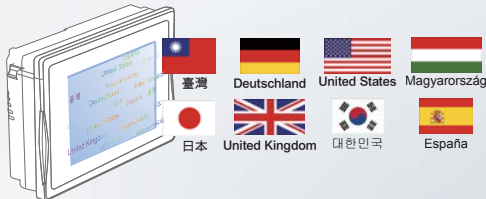
Protect Your Project from being Copied and Revised. (Project Protection)

- Project files, global macros can be protected by different passwords.
- Set the same password for HMI and project and only enable operation when the passwords of both sides match.
- Select [Decompilation prohibited] to prevent others from revising your project.

Project   HMI

Powerful Macro Editor and Commands (Macro)

- Macro applied in the same way as VB-Script-like, users can use Macro to design the desired additional features.
- Powerful Macro supports free protocol and other communication devices.
- Sophisticated features are designed for complex expression and string processing, also for the communication between users and projects.
- Enlarging Macro editing window with tool bar makes Macro designing extremely easy.

## Configure and Display Data with Real-time or History Files (Data Sampling)

- Define multiple Data Sampling and display them by using Trend Display or in the form of table.
- Save data to HMI memory, SD card or USB memory stick.
- Use Printer Server, Backup Object or Project Manager to upload data to PC or USB memory stick.

Application Features

Device Connection Structure

Weintek R & D Group brings you the well-designed Human Machine Interface that is able to connect different devices simultaneously and also to exchange and save data easily with diverse applications and management.
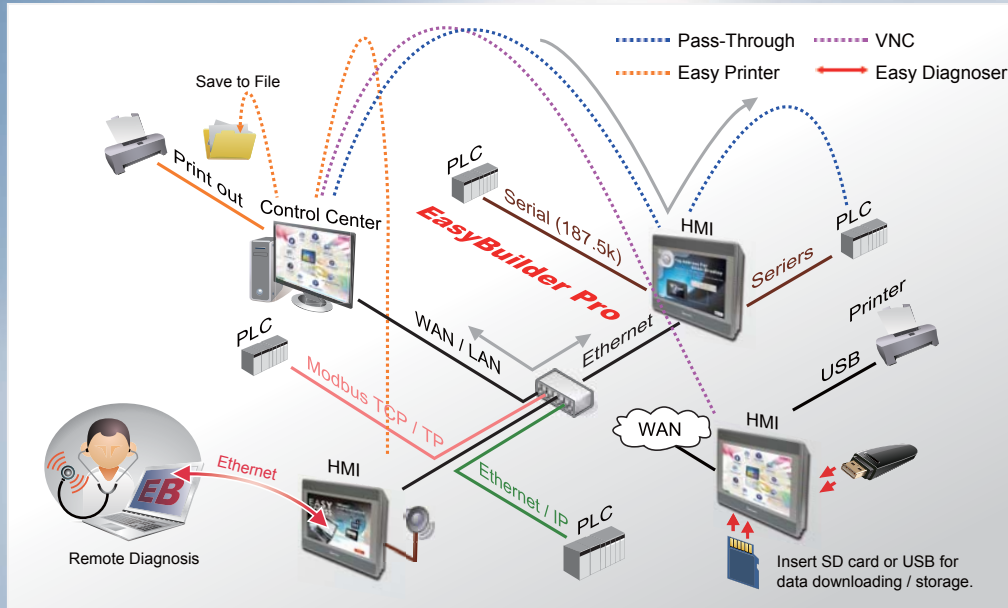
- ● Support different types of external connection devices
- ● Via Internet, data can be exchanged and saved between HMIs.
- ● Via connection management, users can do remote control and diagnosis.

- ● A maximum of 64 devices can be connected simultaneously.
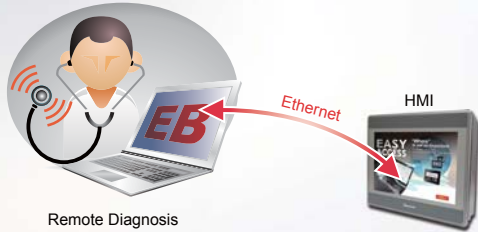- ● Via Internet, users can operate HMI from another connected HMI.

Ethernet Communication

Support MODBUS TCP/IP communication protocol, and other types of PLC network communication module (Allen-Bradley, Siemens S7-200/300/400/1200 etc.)
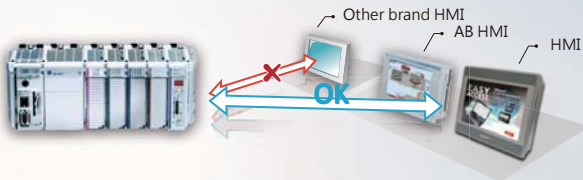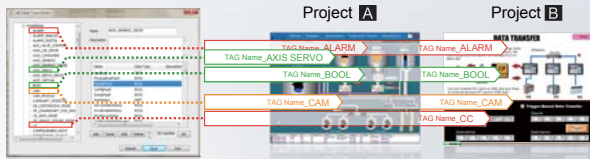

www.ipc2u.ru
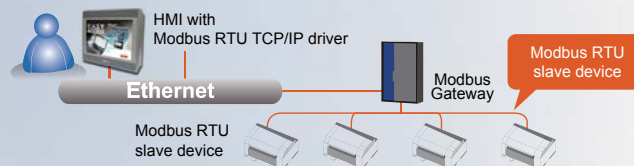
EasyDiagnoser

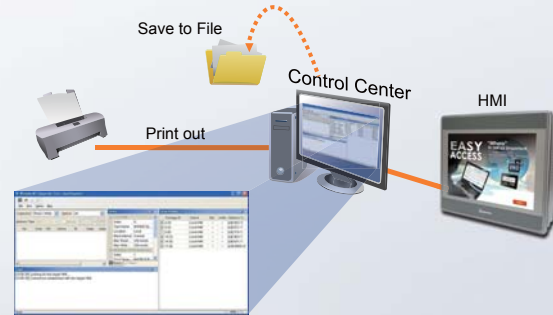EasyDiagnoser is for analyzing and detecting connection between HMI and PLC.

Remote Diagnosis

Ethernet

HMI

EasyPrinter

Easy Printer Server for saving hardcopy or data backup is individually downloadable even without downloading the entire EasyBuilder application.


Save to File

Control Center

HMI

Print out

Allen-Bradley Data Type Editor

Support AB TAG mechanism and improve the flexibility of an object in read/write.

Project A   Project B

TAG Name_ALARM   TAG Name_ALARM
TAG Name_AXIS SERVO
TAG Name_BOOL   TAG Name_BOOL
TAG Name_CAM   TAG Name_CAM
                       TAG Name_CC

Other brand HMI
AB HMI
HMI

OK

EasySimulator

Upon completion of project programming, you can execute Online Simulation on PC by directly connect with PLC (10 min limit)or Offline Simulation on PC without connecting PLC.

● Offline Simulator

● Online Simulator

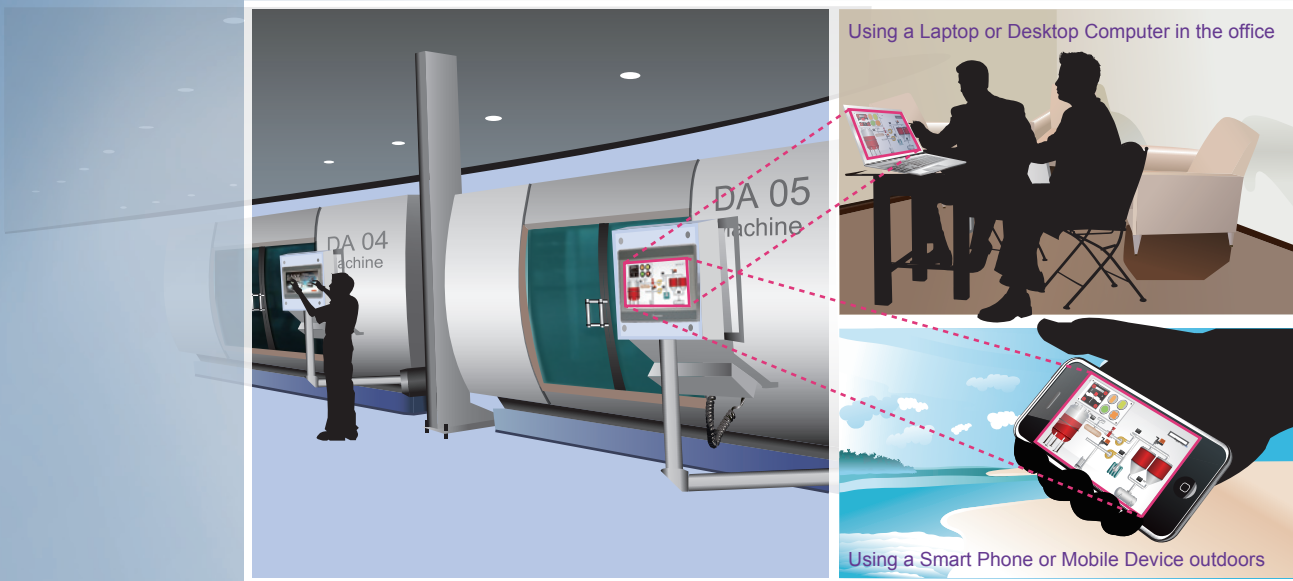Desktop

Ethernet / Com port

PLC Device
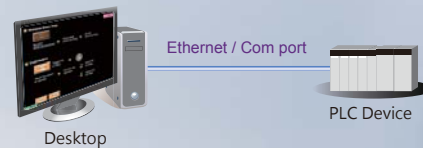
Pass Through

MT8000 Pass Through function allows PC to directly execute PLC applications to control PLC through HMI.
HMI plays a role as a converter of RS232 to RS 485.

PC Application

PLC

COM2

Ethernet

Weintek Virtual
Serial Port (COM7)

VNC

MT8000 HMI built-in VNC server allows you to operate HMI anytime and anywhere under network environment once your PC or cell phone is equipped with VNC Client.

Using a Laptop or Desktop Computer in the office

DA 05
Machine

DA 04
Machine

Using a Smart Phone or Mobile Device outdoors

Easy Access

Remote Monitor Software

No matter in your office or a coffee shop, once your PC is online you can operate and display the screens of the production fields whenever you like. Real time data management and monitoring can be done without creating another new project. Don't worry!! Remote project maintenance is perfectly safe.

Asynchronous

Synchronous

User A
Adminstrator

User B
View Only

User C
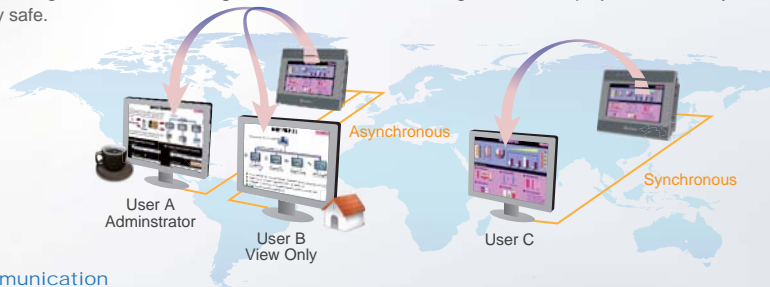
More Efficient Communication

Compared to VNC remote control or web server technology, Easy Access is faster and more stable. No need to wait for the graphic images to be transmitted via Internet dramatically reduces the bandwidth requirement which makes it extremely efficient.

HMI

Computer

Graphics transmission
VNC or Web server

Computer

Easy Access

HMI

Data transmission
001010010001010010

Don't worry where HMI is!

Feel annoyed by memorizing HMI address? By breakthrough technology, Easy Access uses predefined name to instinctively find your remote HMI devices. Even for floating IP, you can still freely connect, manage, and control it in real time.

Internet

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Weintek values highly on Product Quality Assurance. The targets are to improve product reliability, to shorten the time of development, and to meet the demand of customers

Weintek is not only proficient in Software/ Hardware Research and Development, but also possesses strong abilities of product manufacturing and quality control. For quality control, Weintek strictly enforces ISO9000 standards. From bringing raw materials into factory to manufacturing and production, a variety of testing equipments and software are applied, such as: vibration testing, low/high temperature testing, touch testing, performance testing, and communication testing…This guarantees that all products from Weintek to your hand are subject to strict quality checking system.

In addition to the rigorous standard testing process, Weintek professional testing engineers provide dedicated testing processes for the special features of different types of HMI. By accumulating professional testing experience, when facing a specific product, the problem can be identified and solved faster and more accurately.

International Authentication

Our HMI products not only pursue the highest standard of research and development, design, and production. While designing the products, the standard and testing process of materials, parts, tools, and equipments are all carefully managed to comply with the international safety standards also for environmental protection: CE/UL/RoHS

All Member Quality Management
• High Quality Leadership
• High Quality Personnel
• High Quality Culture

Product and Service Quality
• High Quality Products
• High Quality Service
• High Quality Job

System and Quality
• High Quality System
• High Quality Procedure

In addition to the above, Weintek provides great customer service by establishing 2 major systems: CRM system and Service Request for feedback. Weintek not only meets the standard of quality completely, it goes beyond the customers' standards toward the product reliability.

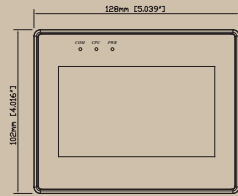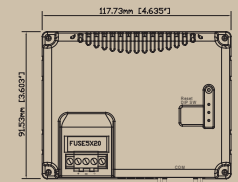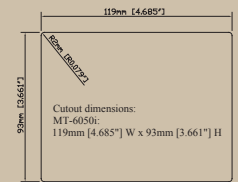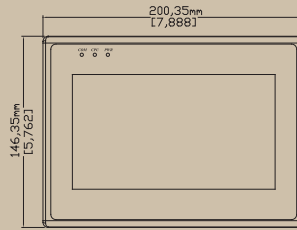|		MT6050i	MT6070iH	MT6100i
Display	Model	MT6050i	MT6070iH	MT6100i
	Display	4.3" TFT	7" TFT	10" TFT
	Resolution	480x272	800x480	800x480
	Brightness (cd/m^2)	500	500	300
	Contrast Ratio	500:1	500:1	500:1
	Backlight Type	LED	LED	LED
	Backlight Life Time	30,000 hr	30,000 hr	30,000 hr
Touch Panel	Type	4-wire Resistive Type		
Enclosure		Plastic		
Memory	Storage (MB)	128	128	128
	RAM (MB)	64	64	64
Processor		RISC 400MHz	RISC 400MHz	RISC 400MHz
I/O Port	SD Card Slot	N/A	N/A	Yes
	USB Host	N/A	USB 1.1 x 1	USB 1.1 x 1
	USB Client	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	N/A	N/A	N/A
	COM Port	COM1 (RS232,RS485 2W/4W) COM3 (RS485 2W)	COM1 (RS232 / RS485 2W/4W), COM2 (RS232),COM3 (RS232 / RS485 2W)	
	Audio	N/A	N/A	N/A
RTC		N/A	Yes	Yes
Power	Input Power	24±20% VDC	24±20% VDC	24±20% VDC
	Power Consumption	250mA@24V	250mA@24V	300mA@24V
Specification	Panel Cutout (mm)	119x93	192x138	259x201
	Weight (kg)	0.3	0.85	1.4
Operation	Protection Structure	IP65 front panel(O ring seal)	IP65 front panel (O ring seal)	IP65 front panel (O ring seal)
	Storage Temperature	-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)

MT6050i

128mm [5.039"]

102mm [4.016"]

COM CPU PWR

Front View

117.73mm [4.635"]

91.53mm [3.603"]

FUSES5X20

COM

Rear View

38.25mm [1.506"]

Bottom View

119mm [4.685"]

93mm [3.661"]

82mm [3.232"]

Cutout dimensions:
MT-6050i:
119mm [4.685"] W x 93mm [3.661"] H

Panel Cutout

MT6070iH

200,35mm [7,888]

146,35mm [5,762]

COM CPU PWR

Front View

189,9mm [7,476]

135,9mm [5,350]

FUSES5X20

COM1 [RS485 24V]
COM1 [RS232]   COM3 [RS485]
COM3 [RS232]   COM1 [RS232]

Rear View

42,55mm [1,675]

Bottom View

192mm [7,559]

138mm [5,433]

Cutout dimensions:
MT-6070iH:
192mm [7.559"] W x 138mm [5.433"] H

Panel Cutout

MT6100i

270.97mm [10.67"]

212.97mm [8.38"]

Front View

257mm [10.12"]

199mm [7.83"]

COM3 [RS485/RS232]
COM1 [RS232]   COM1 [RS232]

Rear View

49.78mm [1.96"]

Bottom View

259mm [10.20"]

201mm [7.91"]

R2mm [R0.08"]

Cutout dimensions:
MT-6100i:
259mm [10.20"] W x 201mm [7.91"] H

Panel Cutout

widescreen　widescreen　widescreen

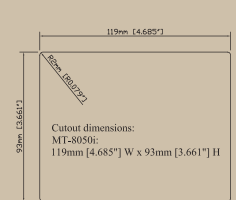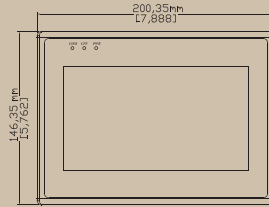|		MT8050i	MT8070iH	MT8100i	MT8104iH
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	Brightness (cd/m^2)	500	500	300	300
	Contrast Ratio	500:1	500:1	500:1	500:1
	Backlight Type	LED	LED	LED	LED
	Backlight Life Time	30,000 hr	30,000 hr	30,000 hr	30,000 hr
Touch Panel	Type	4-wire Resistive Type			
Enclosure		Plastic			
Memory	Storage (MB)	128	128	128	128
	RAM (MB)	64	64	64	64
Processor		RISC 400MHz	RISC 400MHz	RISC 400MHz	RISC 400MHz
I/O Port	SD Card Slot	N/A	Yes	Yes	Yes
	USB Host	N/A	USB 1.1 x 1	USB 1.1 x 1	USB 1.1 x 1
	USB Client	N/A	USB 2.0 x 1	USB 2.0 x 1	USB 2.0 x 1
	Ethernet	10/100 Base-T	10/100 Base-T	10/100 Base-T	10/100 Base-T
	COM Port	COM1 (RS232,RS485 2W/4W) COM3 (RS485 2W)	COM1 (RS232 / RS485 2W/4W), COM2 (RS232), COM3 (RS232 / RS485 2W)		
	Audio	N/A	Yes	Yes	Yes
RTC		N/A	Yes	Yes	Yes
Power	Input Power	24±20% VDC	24±20% VDC	24±20% VDC	24±20% VDC
	Power Consumption	250mA@24V	250mA@24V	300mA@24V	400mA@24V
Specification	Panel Cutout (mm)	119x93	192x138	259x201	259x201
	Weight (kg)	0.3	0.85	1.4	1.6
Operation	Protection Structure	IP65 front panel (O ring seal)	IP65 front panel (O ring seal)	IP65 front panel (O ring seal)	IP65 front panel (O ring seal)
	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)

MT8050i

128mm [5.039"]

102mm [4.016"]

COM CPU PWR

Front View

117.73mm [4.635"]

91.53mm [3.603"]

FUSE5X20

Rear View

38.25mm [1.506"]

Bottom View

119mm [4.685"]

93mm [3.661"]

62mm [80.024"]

Cutout dimensions:
MT-8050i:
119mm [4.685"] W x 93mm [3.661"] H

Panel Cutout

MT8070iH

200,35mm [7,888]

146,35 mm [5,762]

COM CPU PWR

Front View

189,9 mm [7,476]

135,9 mm [5,350]

FUSE5X20

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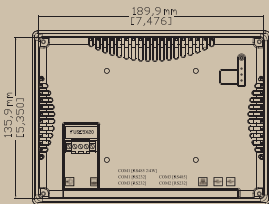
Bottom View
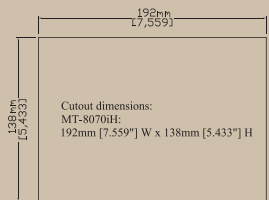
192mm [7,559]

138mm [5,433]

Cutout dimensions:
MT-8070iH:
192mm [7.559"] W x 138mm [5.433"] H

Panel Cutout

MT8100i

270.97mm [10.67"]

212.97mm [8.38"]

Front View

257mm [10.12"]

199mm [7.83"]

Rear View

49.78mm [1.96"]

Bottom View

259mm [10.20"]

201mm [7.91"]

R2mm [R0.08"]
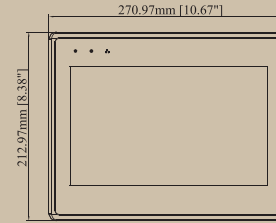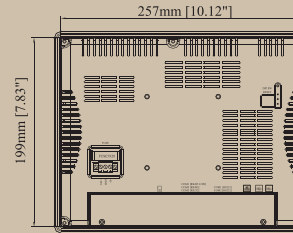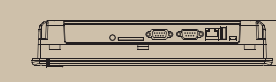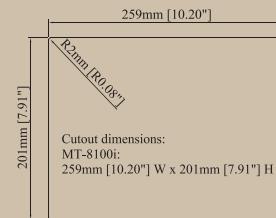
Cutout dimensions:
MT-8100i:
259mm [10.20"] W x 201mm [7.91"] H

Panel Cutout

MT8104iH

286.2mm [11.27"]

212.8mm [8.38"]

Front View

257mm [10.12"]

199mm [7.83"]

Rear View

50mm [1.97"]

Bottom View

259mm [10.20"]

201mm [7.91"]

R2mm [R0.08"]
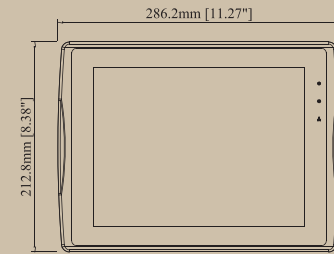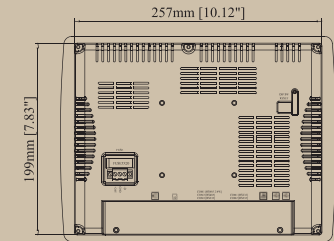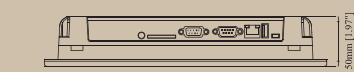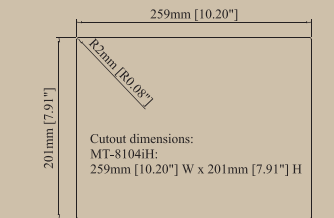
Cutout dimensions:
MT-8104iH:
259mm [10.20"] W x 201mm [7.91"] H

Panel Cutout

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The company's missions are to provide its customers with quality products and superior service as well as to share the fruits of its good teamwork with all of its employees, by which we are able to achieve the goals of establishing a reputation as a leading brand in the industry and ensuring sustainability of the operation and development of enterprise.