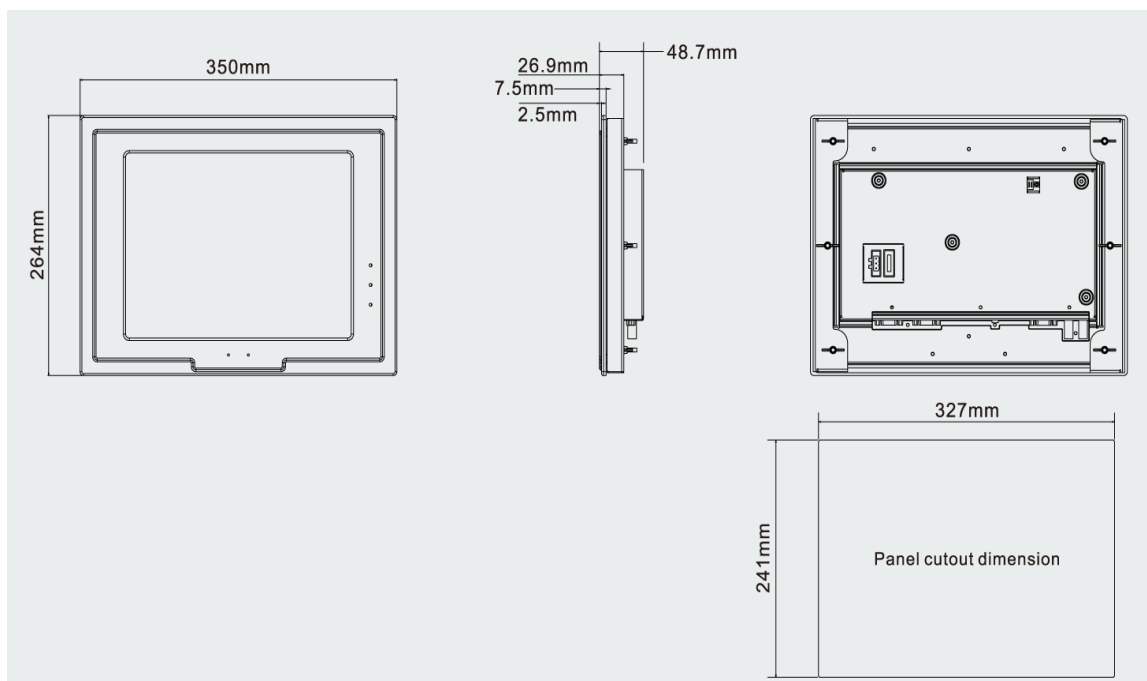# Kinco

**FEATURES**

- *12.1" TFT Display*
- *65536 True Color TFT LCD*
- *32 Bit, 520 MHz RISC CPU*
- *16 MB FLASH + 32 MB SDRAM*
- *512 KB Recipe Memory, Record Date Easily*
- *Real-Time Clock, Reserve Time for More than 2 Years at Power Off State*
- *3 COM Ports, Supports Simultaneous Communications;RS232/RS422/RS485*
- *Input Voltage Range 21~28VDC*

**DESCRIPTION**

The MT5000 Series is a very powerful HMI product that will make your application soar. This HMI line come with a 65536 color display mode that gives your touch screen rich color and incomparable resolution. With the application of a powerful 520 MHz 32-bit RISC processor, the MT5000 provides faster processing speeds. Each HMI supports simultaneous communications via its multiple serial ports, so that you may connect to different controllers at the same time. With the simple, convenient and powerful HMIware configuration software, the user can master its design method and create first-class programs efficiently.

**DIMENSIONS**

350mm

264mm

26.9mm
7.5mm
2.5mm
48.7mm

327mm

241mm

Panel cutout dimension

L011271

SPECIFICATIONS

| Performance Specification | |
|---|---|
| Display | 12.1" TFT |
| Resolution | 800 x 600 Pixels |
| Color | 65,536 Colors |
| Backlight | 2 CCFL |
| Brightness | 250 cd/m$^2$ |
| Backlight Life | 50,000 Hrs |
| Touch Panel | 4-Wire Precision Resistance Network |
| Processor | 32-bit RISC CPU 520 MHz |
| Memory | 16 MB FLASH, 32 MB SDRAM |
| Expandable Memory | 2 USB Hosts, 1 SD Card |
| Recipe Memory & RTC | 512 KB & RTC |
| Printer Port | USB/Serial Port |
| Ethernet | 10/100 Base-T |
| Audio Interface | 1 Audio Output Interface |
| Video Interface | 2 PAL Video Input, BNC Connector |
| Program Download | USB Slave/Serial Port/Ethernet Port |
| COM Port | COM0:RS232/RS485-2/RS485-4, COM1:RS232/RS485-2/RS485-4, COM0:RS232 |
| Expansion Port | MPI |
| **Electrical Specification** | |
| Rated Power | 15.6 W |
| Rated Voltage | 24 VDC |
| Input Range | 21~28 VDC |
| Power Down Allowed | < 3ms |
| Insulation Resistance | > 50M Ω @ 500 VDC |
| Dielectric Strength Test | 500 VAC 1 Minute |
| **Structure Specification** | |
| Shell Color | Black |
| Shell Material | Metal |
| Dimensions(mm) | 350 x 264 x 48.7 |
| Cutout Size(mm) | 327 x 241 |
| Weight | 4.3 Kg |
| **Environment Specification** | |
| Operating Temperature | -10°~60° C |
| Operating Humidity | 10~90% Non-Condensing |
| Storage Temperature | -20°~70° C |
| Storage Humidity | 10~90% Non-Condensing |
| Shockproof Test | 10~25Hz (X,Y,Z Direction, 2G, 30 Minutes) |
| Cooling Method | Natural Air Cooling |
| **Certification** | |
| Degree of Protection | IP65 (Front Panel) |
| CE Certification | Comply with EN61000-6-2:2005 and EN61000-6-4:2007 Standards |
| FCC Compatibility | Complies with FCC Class A |

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