



MT4000 Series MT5000 Series Text Display Series



Corporate Profile



Kinco Automation is a leading supplier of industrial automation products and solutions from China with full line of automation products including industrial human machine interfaces (HMI), AC servo systems, stepper systems, PLC, VFD and field bus products. Kinco aims to help you achieve a leading position in your market.

Reliable partner of your success

- ☐ Gain the competitive edge
- ☐ Support your business
- ☐ Serve your needs

High standard of quality management

- □ 100% function and reliability test before delivery
- ☐ Quality control and tracking go through the full product life cycle
- ☐ Certificated process control and quality management capability

Proven performance

☐ Customers in over 40 countries and in diverse markets and sectors

Perpetual innovation

- □ 8% of annual turnover invested in R&D
- ☐ Experienced international R&D teams
- □ Patent applications continue to rise every year
- ☐ Market-driven R&D: we organize our R&D activities around the voice from the customers



Provide Chinese Automation Solutions for Global Customers

MT4000 Series 03

System Description Hardware Description Technical Specification Dimensions

MT5000 Series 13

System Description Hardware Description Technical Specification Dimensions

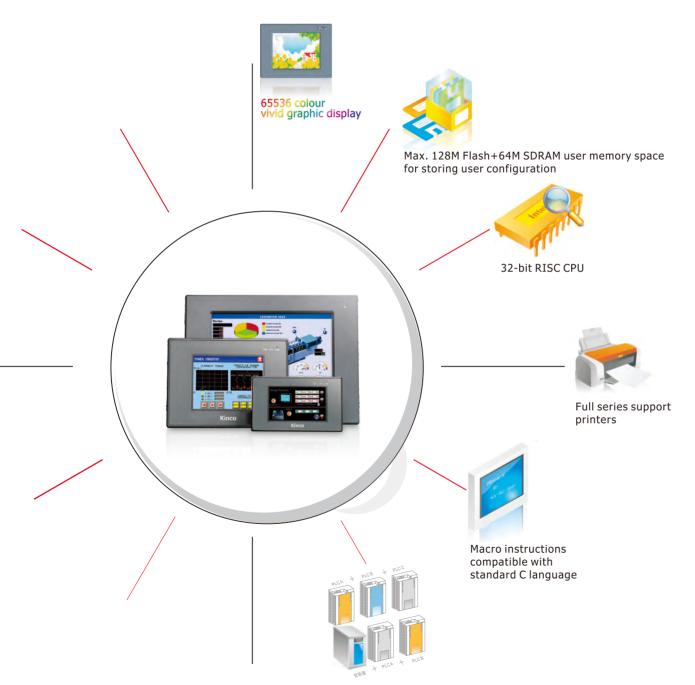
Text Display MD200/300 Series 25

Software Description 27

System Description

As the industrial competition is getting fiercer, more and more customers demand HMI products featuring more powerful functions, more convenient operation, quicker response speed, and lower cost. As an upgraded version, the MT4000 is designed to meet customer requirements. It derives from our consistent efforts to improve HMI touch screens and represents one of the many high-performance products for industrial applications.

Supporting almost all the mainstream functions for Middle-End applications with high performance, the MT4000 adopts the 32-bit RISC CPU, capable of calling complicated shapes and satisfying the requirements of most customers. It can communicate directly with many PLCs, while no special program is required for data transfer with these PLCs. In addition, it supports such functions as online simulation, super-large storage space for user configurations, and macros compatible with the standard C language. It can perform on-site data collection, processing, monitoring, and output in a quick, effective, and secure way.



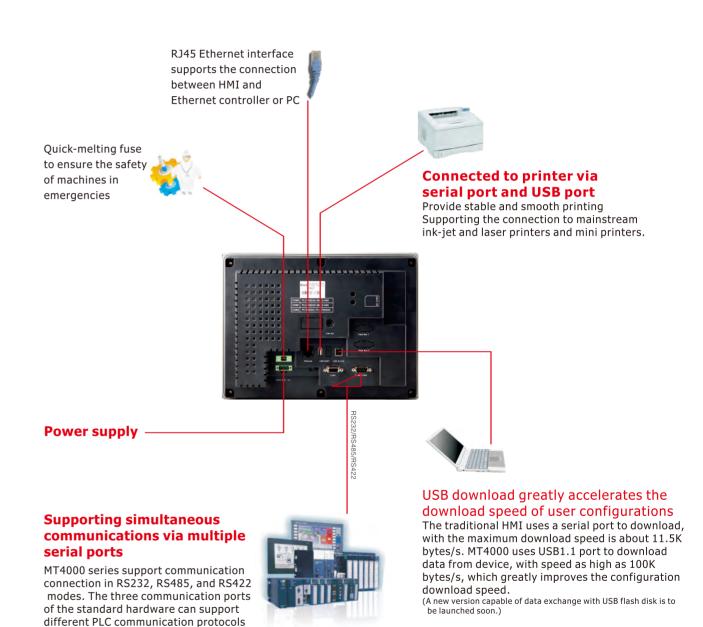
Three serial ports are simultaneously connected to such industrial control devices as PLC, inverter or servo driver

Hardware Description

at the same time and can be connected to different controllers. The three ports are completely independent. The PLC communication failure of one port will not affect the communication of the other port, featuring high reliability.

Standard configuration

Three high-speed serial ports One USB SLAVE port



MT4000 Series Features



- > 10M/100M Ethernet interface, supports Ethernet communication based on CS structure, could be used for the setting of system parameters and online simulation of project configuration, multiple HMIs could be linked via Ethernet, could communicate with PC and PLC via Ethernet interface, could exchange data with controller which supports Ethernet communication via OPC software (only applicable to MT4000E series);
- ➤ 65536 true color TFT LCD, supports the import multiple windows image formats, such as BMP, JPG, GIF; supports all fonts of windows platform, supports 4 languages of interface display;
- > 32-bit, 400MHz, up to 800MHz RISC CPU;
- > 128M Max. FLASH ROM + 64M Max. SDRAM/DDR, larger storage space;
- Compatible with major PLCs and controllers, could provide customer-made communication drive program rapidly;
- Max. 512KB recipe memory, could record data easily, convenient for user to inquire;
- > Supports the timing of a minimum of 100ms, configured with multiple functions such as timing data transfer, value accumulation, decrease and macro instruction;
- > Real-time clock, could reserve time for more than 2 years at power-off state;
- > 3 COM ports, supports simultaneous communications with controllers of 3 different protocols, supports RS232/RS422/RS485 mode;
- > 1 USB SLAVE port, greatly accelerates the download speed of user configuration;
- Connect to printer via serial port and USB port;
- ➤ Powerful configuration software-Kinco HMIware supports macro commands and provides rich drawing library.

MT4000 Series

Technical Specifications





MT4210T

MT4220TE

Model	MT4210T	MT4220TE				
Performance specification						
Display	4.3" TF	- T				
Resolution	480×272 pixels					
Color	65536 cc	olors				
Backlight	LED					
Brightness	300cd/	m²				
Backlight life	50000	hr.				
Touch Panel	4-wire precision resi	stance network				
Processor	32-bit RISC CPU 400MHz	32-bit RISC CPU 800MHz				
Memory	128M FLASH + 6	54M SDRAM				
Expandable memory	None	1 USB host, 1 SD card				
Recipe memory & RTC	512KB +	RTC				
Printer port	Serial port	Serial port/USB port				
Ethernet	None	Support				
Program download	USB SLAVE/Serial port	USB SLAVE/Serial port/Ethernet port				
COM port	COM0:RS232/RS485-2/RS485-4, COM2:RS232					
Electrical specification						
Rated power	4.8 W					
Rated voltage	DC24V					
Input range	12~28VDC					
Power down allowed	<5ms	5				
Insulation resistance	Greater than 50M Ω @ 500V DC					
Dielectric strength test	500VAC 1 r	ninute				
Structure specification						
Shell color	Black	(
Shell material	ABS					
Dimensions(mm)	154×89	×60				
Cutout size(mm)	145×8	31				
Weight	0.34k	g				
Environment specification						
Operating temperature	-20~55	${}^{\circ}\mathbb{C}$				
Operating humidity	10~90% non-c	ondensing				
Storage temperature	-25~60					
Storage humidity	10~90% non-c	-				
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					
FCC compatibility	Complies with F	CC Class A				
UL certification	Comply with UL 508	None				

MT4000 Series

Technical Specifications



MT4300C/MT4300CE

Model	MT4300C	MT4300CE			
Performance specification					
Display	5.6	" TFT			
Resolution	320×234 pixels				
Color	65530	6 colors			
Backlight	L	.ED			
Brightness	300	cd/m²			
Backlight life	500	00 hr.			
Touch Panel	4-wire precision	resistance network			
Processor	32-bit RISC CPU 400MHz	32-bit RISC CPU 800MHz			
Memory	128M Flash	+64M SDRAM			
Expandable memory	N	one			
Recipe memory & RTC	512KI	B & RTC			
Printer port	Seri	al port			
Ethernet	None	Support			
Program download	USB SLAVE/ Serial port	USB SLAVE/Serial port/ Ethernet port			
COM port	COM0:RS232/RS485-2/RS485-4, COM1:RS232/RS485-2/RS485-4, COM2:RS232				
Electrical specification					
Rated power		ł W			
Rated voltage	DC	C24V			
Input range	12~	28VDC			
Power down allowed	<	5ms			
Insulation resistance	Greater than 5	50MΩ@ 500V DC			
Dielectric strength test	500V AC	1 minute			
Structure specification					
Shell color	В	lack			
Shell material	Д	ABS			
Dimensions(mm)	204×	150×52			
Cutout size(mm)	192	×138			
Weight	3.0	85kg			
Environment specification					
Operating temperature	0~	50℃			
Operating humidity	10~90% no	n-condensing			
Storage temperature	-104	~60℃			
Storage humidity	10~90% no	n-condensing			
Shockproof test	10~25Hz (X, Y, Z dire	ection, 2G, 30 minutes)			
Cooling method	Natural	air cooling			
Certification					
Degree of protection	IP65 (fr	ont panel)			
CE certification	Comply with EN61000-6-2:2005	and EN61000-6-4:2007standards			
FCC compatibility	Complies wi	th FCC Class A			

MT4000 Series

Technical Specifications





MT4404T/MT4424TE

MT4414T/MT4414TE MT4414TE-CAN

32-bit RISC C 128M Flash+64M DDR2 None	800 65 	' 16:9 TFT × 480 pixels 536 colors LED 800cd/m² 50000 hr. on resistance networ	rk 32-bit RISC CPU 800MHz 128M Flash+64M DDR2	
128M Flash+64M DDR2 None	800 65 	×480 pixels i536 colors LED 300cd/m² 50000 hr. on resistance networ	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	65 4-wire precisi PU 400MHz 128M FLA	536 colors LED 300cd/m² 50000 hr. on resistance networ	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	4-wire precisi PU 400MHz 128M FL/	LED 300cd/m² 50000 hr. on resistance networ ASH+64M SDRAM	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	4-wire precisi PU 400MHz 128M FLA	300cd/m² 50000 hr. on resistance networ ASH+64M SDRAM	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	4-wire precisi PU 400MHz 128M FLA	50000 hr. on resistance networ ASH+64M SDRAM	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	4-wire precisi PU 400MHz 128M FLA	on resistance networ	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	PU 400MHz 128M FLA	ASH+64M SDRAM	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	PU 400MHz 128M FLA	ASH+64M SDRAM	32-bit RISC CPU 800MHz	
128M Flash+64M DDR2 None	128M FL/		128M Flash+64M DDR2	
	51	1 USB host	1 USB host, 1 SD card	
Carial		2KB & RTC		
Senan			USB/Serial port	
		Support		
			/E/Serial port/Ethernet port	
COM0:RS232/RS485-2/ RS485-4, COM1:RS232/ RS485-2/RS485-4, COM2:RS232	COM0:RS232/RS485-2/ RS485-4, COM1:RS232/ RS485-2/RS485-4, COM2:RS232 COM2:RS232		COM0:RS232/RS485-2/	
8W		4W	8W	
DC24V		DC24V	DC24V	
21~28VDC, in-built isolated power	r supply. 1	2~28VDC	21~28VDC, in-built isolated power supply	
<5ms		<3ms	<5ms	
	Greater tha	in 50MΩ@ 500V DC		
	500V	AC 1 minute		
		Black		
		ABS		
206.8 × 124.2 × 45.1	204	4×150×37	206.8 × 124.2 × 45.1	
193.5 × 112.5	1	192×138	193.5 × 112.5	
0.8kg		0.75kg	0.8kg	
<u>_</u>			3	
		0~50℃		
	10~90%			
			nutes)	
	· · · ·			
	11000			
	IP65	(front nanel)		
		, mai i ce ciass A	Comply with UL 508	
	None USB SLAVE/S COM0:RS232/RS485-2/ RS485-4, COM1:RS232/ RS485-2/RS485-4, COM2:RS232 8W DC24V 21~28VDC, in-built isolated power <5ms 206.8 × 124.2 × 45.1 193.5 × 112.5 0.8kg Comply w	USB SLAVE/Serial port COM0:RS232/RS485-2/ RS485-4, COM1:RS232/ RS485-2/RS485-4, COM2:RS232 8W DC24V 21~28VDC, in-built isolated power supply. 1 <5ms Greater that 500V 206.8 × 124.2 × 45.1 20 193.5 × 112.5 30.8kg 10~90% 10~25Hz (X, Y, Z Natu	None None Support USB SLAVE/Serial port USB SLAVE COM0:RS232/RS485-2/ RS485-4, COM1:RS232/ RS485-2/RS485-4, COM2:RS232 COM0:RS232/RS485-2/RS485-4, COM2:RS232 8W 4W DC24V DC24V 21~28VDC, in-built isolated power supply. 12~28VDC < 5ms	

^{*} MT4414TE-CAN with CANopen interface, other specifications are same with MT4414TE.

MT4000 Series

Technical Specifications





MT4403T/MT4403TE

MT4512T/MT4512TE MT4522T/MT4522TE

Model	MT4403T	MT4403TE	MT4512T	MT4512TE	MT4522T	MT4522TE
Performance specification						
Display	8''	TFT	10.1" 1	6:9 TFT	10.1" 1	6:9 TFT
Resolution	800 × 60	00 pixels	800 × 48	30 pixels	800 × 480 pixels	
Color	65536	colors	65536	colors	65536	colors
Backlight	LI	ED	LE	ED	LE	ED
Brightness	2500	cd/m²	3200	cd/m²	3200	cd/m²
Backlight life			5000	00 hr.		
Touch Panel		4	-wire precision r	esistance networ	·k	
Processor	32-b	it RISC CPU 400	МНz	32-l	oit RISC CPU 800	MHz
Memory			128M FLASH	+64M SDRAM		
Expandable memory		None		1 USB host	1 USB Host	t, 1 SD Card
Recipe memory & RTC	256KB	& RTC	512KB	& RTC	512KB	& RTC
Printer port	Seria	l port	Serial port		USB/Serial port	
Ethernet	None	Support	None	Support	None	Support
Program download	USB SLAVE/ Serial port	USB SLAVE/ Serial port/ Ethernet port	USB SLAVE/ Serial port	USB SLAVE/ Serial port/ Ethernet port	USB SLAVE/ Serial port	USB SLAVE/ Serial port/ Ethernet port
COM port	COMO: DC222 /DC40F 2 /DC40F 4		COM0:RS232/RS485-2/RS485-4, COM2:RS232		COM0:RS232/RS485-2/RS485-4, COM1:RS232/RS485-2/RS485-4, COM2:RS232	
Electrical specification						
Rated power	8	W	8W		5.5W	
Rated voltage	DC	24V	DC24V		DC24V	
Input range	12~28VDC, in-bu	ilt isolated power supply.	12~28VDC		21~2	8VDC
Power down allowed			<5	ms		
Insulation resistance			Greater than 50	MΩ@ 500V DC		
Dielectric strength test			500V AC	1 minute		
Structure specification						
Shell color	Bla	ack	Black		Black	
Shell material	A	BS	ABS		ABS	
Dimensions(mm)	235 × 1	.72 × 53	310 × 230 × 55		310×230×55	
Cutout size(mm)	224	× 161	298 × 218		298×218	
Weight	1.3	Bkg	21	(g	1.47kg	
Environment specification						
Operating temperature	-10^	,50℃	0~5	0℃	0~5	50℃
Operating humidity			10~90% non-condensing			
Storage temperature	-20^	,60 ℃	-10~60℃		-10∼	60℃
Storage humidity	10~90% non-condensing					
Shockproof test	10~25Hz (X, Y, Z direction, 2G, 30 minutes)					
Cooling method			Natural a	ir cooling		
Certification						
Degree of protection			IP65 (fro	nt panel)		
CE certification		Comply with EN6	51000-6-2:2005 a	and EN61000-6-4	1:2007standards	
FCC compatibility	Complies with FCC Class A					

MT4000 Series

Technical Specifications



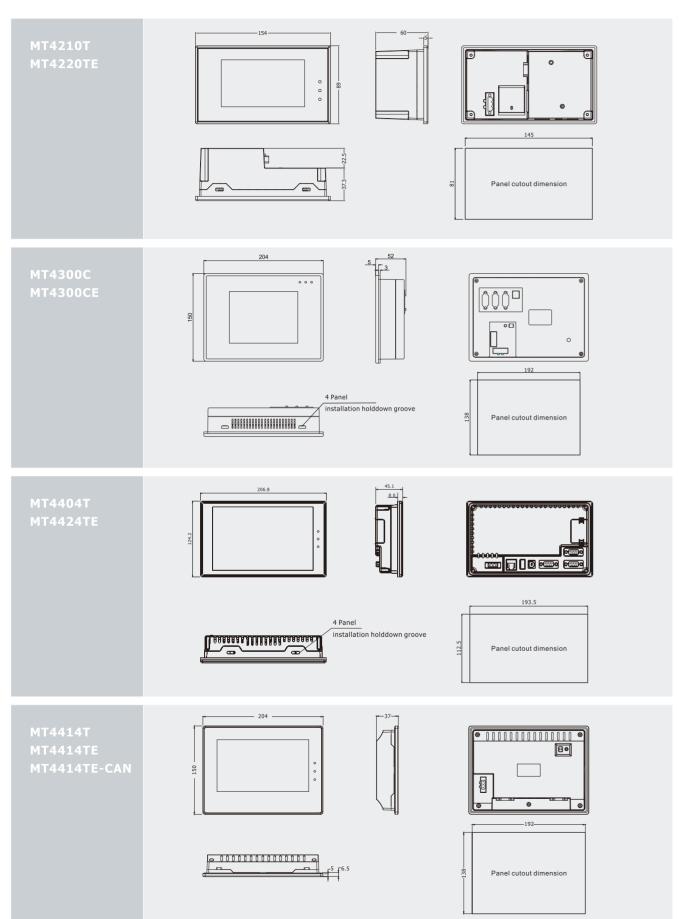


MT4523T/MT4523TE

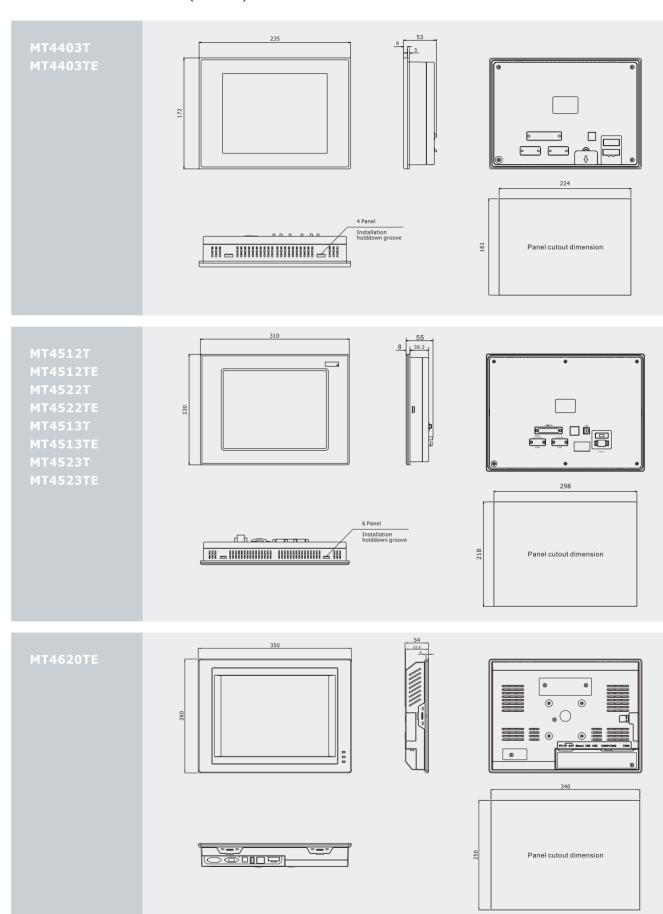
MT4620TE

Model	MT4513T	MT4513TE	MT4523T	MT4523TE	MT4620TE
Performance specification					
Display	10.4	" TFT	10.4	12.1" TFT	
Resolution	800 × 60	00 pixels	800 × 60	00 pixels	800 × 600 pixels
Color	65536	colors	65536	colors	65536 colors
Backlight	L	ED	LE	D	LED
Brightness	3000	cd/m²	3000	d/m²	450cd/m ²
Backlight life			50000 hr.		
Touch Panel		4-wire	precision resistance	network	
Processor	400MHz RISC	800MHz RISC	520MH	z RISC	800MHz RISC
Memory	128M FLASH	I+64M DDR2	128M FLASH	+64M SDRAM	128M FLASH+ 64M DDR
Expandable memory	None	1 USB HOST	1 SD Card, 1	USB HOST	1 SD Card, 1 USB HOST
Recipe memory & RTC	512KB	& RTC		& RTC	128KB & RTC
Printer port	Serial port	USB SLAVE/ Serial port	USB SLAVE	/Serial port	USB SLAVE/Serial port/ Ethernet port
Ethernet	None	Support	None	Support	Support
Program download	USB SLAVE/ Serial port	USB SLAVE/ Serial port/ Ethernet port	USB SLAVE/ Serial port	USB SLAVE/ Serial port/ Ethernet port	USB SLAVE/ Serial port/ Ethernet port
COM port	COM0:RS232/RS485-2	/RS485-4, COM2:RS232	COM0:RS232/RS485-2/RS485-4, COM1:RS232/RS485-2/RS485-4, CO		
Electrical specification					
Rated power	8	W	12	10 W	
Rated voltage	DC	24V	DC24V		DC24V
Input range	10~2	28VDC	21~28VDC	ower supply.	
Power down allowed		<5	ms		<3ms
Insulation resistance		Great	ter than $50M\Omega@500$	OV DC	
Dielectric strength test			500V AC 1 minute		
Structure specification					
Shell color	Dark	gray	Bla	Cold gray	
Shell material	PC+	-ABS	Al	PC	
Dimensions(mm)	310×2	230×55	310×230×55		350×260×54
Cutout size(mm)	298	×218	298>	<218	340×250
Weight	2	kg	2kg		2kg
Environment specification					
Operating temperature	0~	50℃	0~50℃		-10~55℃
Operating humidity		10	0~90% non-condensing		
Storage temperature	-10~60℃		-10~60℃		-20~60℃
Storage humidity	10~90% non-condensing			ing	
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	Co	mply with EN61000-	6-2:2005 and EN610	000-6-4:2007standa	ards
FCC compatibility		Co	mplies with FCC Clas	ss A	

Dimensions (Unit:mm)



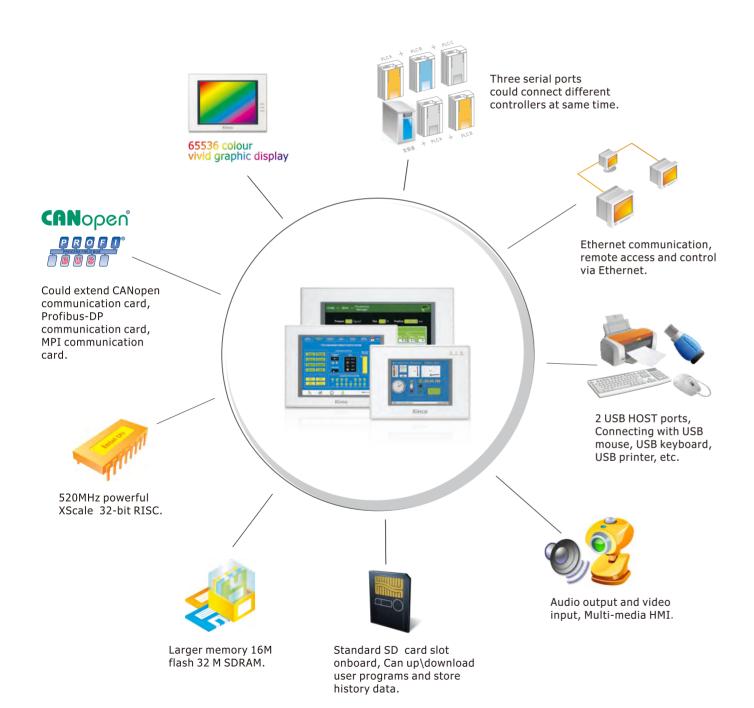
Dimensions (Unit:mm)



lacksquare 12

System Description

MT5000 series HMI use INTEL 520MHz RISC CPU and LINUX operating system, have the easy learning configuration software, maintain the classic HMI design. It supports USB HOST function and SD card, and could manage data and preserve parameters online, you can quickly up/download user programs, and integrate the audio output; MT5000 series HMI integrate industry Ethernet and Fieldbus interface, could be linked with other screens in eView protocol, could communicate with other controllers via Ethernet interface in MODBUS TCP/IP protocol, could exchange data with controller via OPC software, could extend CANopen communication card and Profibus-DP communication card, connecting to the field bus network.



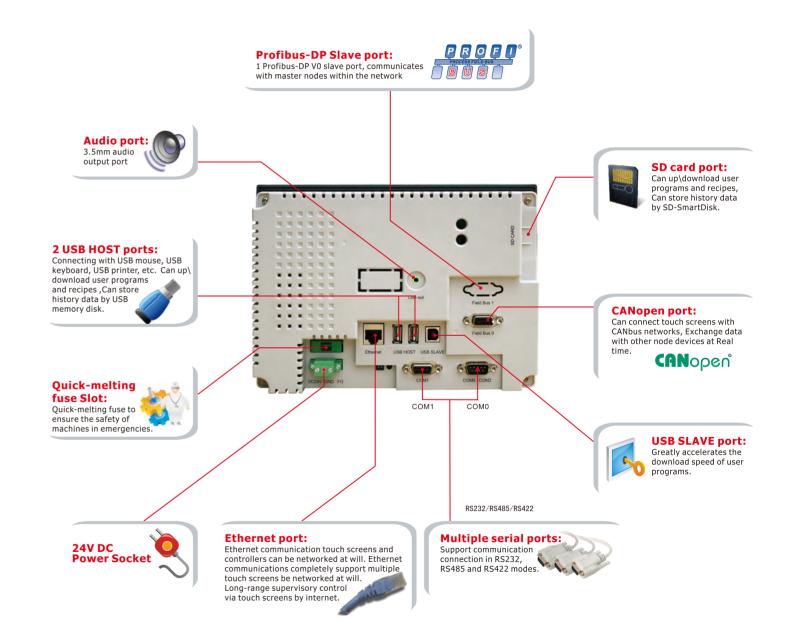
Hardware Description

Standard Configuration:

Three RS-232/485/422 ports Two USB-HOST ports One USB SLAVE port One Ethernet Interface One Audio Output Interface Two Video input interface One SD Card

Expandable Configuration:

Profibus-DP Communication Card CANopen Communication Card MPI Communication Card



MT5000 Series Features



- ➤ Higher performance and efficiency thanks to the 520MHz powerful XScale® 32-bit RISC processor;
- Larger and expansible memory for more complicated user application and data storage;
- Dual USB host ports compatible with peripherals like mouse, keyboard, printer and USB disk. Users can upload/download application and recipes data from/to the panel by using USB disk. Historical data can also be stored in the USB disk;
- ➤ Standard SD® card slot onboard

 Just like the USB disk, SD® card can be used for uploading/downloading application and recipes data from/to the panel. Also, historical data can be stored in the card;
- 3.5mm audio output port for external speaker;
- > 10.4 above models support two-channel PAL video input interface, they can be used real-time monitoring on industrial fields;
- ➤ RJ45 Ethernet interface through which the panel can communicate with controllers and other panels, users can remotely get access to the panel via the internet also, Via Kinco OPC software, user can realize factory automation network monitoring;
- Optional CANopen interface makes it possible for using the panel as a CAN node. With proper drivers, the panel can be used as a host or client. With MT5020, you CAN;
- > The panel can exchange data with Profibus-DP node with the optional Profibus interface;
- ➤ With optional MPI interface, the panel can communicate with Siemens S7-300/400 without any costly adapters;
- > 1 USB slave port for downloading application data from the PC faster than via serial port;
- ➤ 65536 color TFT LCD ensures vivid graphic display, supports the import multiple windows image formats, such as BMP, JPG, GIF; supports all fonts of windows platform, supports 4 languages of interdace display;
- > 3 COM ports, supports simutaneous communications with controllers of 3 different protocols, supports RS232/RS422/RS485 modes, supports exchange serial ports by software.

MT5000 Series

Technical Specifications





Model	MT5320C	MT5320C -DP	MT5320C -CAN	MT5320C -MPI	MT5323T	MT5323T -DP	MT5323T -CAN	MT5323 -MPI
Performance specific	ation					•	•	
Display		5.6'	'TFT		5.7" TFT			
Resolution		320 × 234 pixels				640 × 48	80 pixels	
Color		65536	colors			65536	colors	
Backlight		LI	ED			LI	ED	
Brightness		3000	cd/m²			7000	cd/m²	
Backlight life		5000	00 hr.			5000	00 hr.	
Touch Panel	4-w	ire precision r	esistance net	work	4-w	ire precision r	esistance net	work
Processor		32-bit RISC	CPU 520MHz			32-bit RISC	CPU 520MHz	
Memory		8M FLASH+	16M SDRAM			16M FLASH-	+32M SDRAM	
Recipe memory & RTC		512KB	& RTC			512KE	8 & RTC	
Expandable memory	1 S	D Card (≤2G	B), 2 USB H	OST	1 S	D Card (≤2G	B), 2 USB H	OST
Printer port			rial port			USB/Se	rial port	
Ethernet			Base-T				Base-T	
Audio interface		No	ne			No	one	
Vedio interface		No	ne			No	one	
Program download	1 USB S	SLAVE port/Se	rial port/Ether	net port	1 USB S	SLAVE port/Se	rial port/Ether	net port
COM port			5485-2/RS485		COM0:RS232/RS485-2/RS485-4,			
•	COM1:RS232/RS485-2/RS485-4, COM2:RS232			COM1:RS232/RS485-2/RS485-4, COM2:RS232				
Expansion port	None	Profibus-DP		MPI	None	Profibus-DP		MPI
Electrical specification	on							•
Rated power		7.2 W				10) W	
Rated voltage		DC	24V		DC24V			
Input range		21~2	8VDC		12~28VDC			
Momentary power-off		<3	Bms		<3ms			
Insulation resistance	G	reater than 50	OMΩ@ 500V [DC .	Greater than 50MΩ@ 500V DC			
Dielectric strength test		500V AC	1 minute			500V AC	1 minute	
Structure specification	on							
Shell color		Light	-gray			Light	t-gray	
Shell material		Α	BS		ABS			
Dimensions(mm)		204 × 1!	50 × 56.7		204 × 150 × 56.7			
Cutout size(mm)		192	× 138		192 × 138			
Weight		0.9	6kg		0.96kg			
Environment specific	ation							
Operating temperature		0~4	45 ℃			-20^	√70℃	
Operating humidity		10~90% no	n-condensing		10~90% non-condensing			
Storage temperature		-30~80℃			-30~80℃			
Storage humidity		10~90% no	n-condensing			10~90% no	n-condensing	
Shockproof test	10~25H		ction, 2G, 30 i	minutes)	10~25Hz (X, Y, Z direction, 2G, 30 minutes)			minutes)
Cooling method			ir cooling	-			air cooling	,
Certification			-					
Degree of protection		IP65 (fro	nt panel)		IP65 (front panel)			
CE certification	Co		61000-6-2:20				05	
			4:2007standa		and EN61000-6-4:2007standards			
FCC compatibility			h FCC Class A				h FCC Class A	

MT5000 Series

Technical Specifications





Model	MT5423T	MT5423T -DP	MT5423T -CAN	MT5423T -MPI	MT5520T	MT5520T -DP	MT5520T -CAN	MT5520T -MPI	
Performance specific	ation								
Display		8''	TFT		10.4" TFT				
Resolution		800 × 60	00 pixels		640 × 480 pixels				
Color		65	536		65536				
Backlight		LI	ED			2 (CCFL		
Brightness		3000	cd/m²			400	cd/m²		
Backlight life		5000	00 hr.			500	00 hr.		
Touch Panel	4-w	ire precision r	esistance net	work	4-w	ire precision i	resistance net	work	
Processor		32-bit RISC	CPU 520MHz			32-bit RISC	CPU 520MHz		
Memory		16M FLASH-	-32M SDRAM			16M FLASH-	+32M SDRAM		
Recipe memory & RTC		512KB	& RTC			512KE	3 & RTC		
Expandable memory	1 S	D Card (≤2G		OST	1 S	D Card (≤20	GB), 2 USB H	OST	
Printer port		USB/Se	rial port			USB/Se	erial port		
Ethernet			Base-T) Base-T		
Audio interface		1 Audio out	put interface			1 Audio out	put interface		
Vedio interface			one				one		
Program download		SLAVE port/Se					rial port/Ether		
COM port	l	DM0:RS232/R			COM0:RS232/RS485-2/RS485-4,				
	COM1:RS	232/RS485-2		M2:RS232	COM1:RS232/RS485-2/RS485-4, COM2:RS23				
Expansion port	None					Profibus-DP	CANopen	MPI	
Electrical specification	on								
Rated power			W		12 W				
Rated voltage			24V		DC24V				
Input range		12~2	8VDC		21~28VDC				
Momentary power-off			Bms		<3ms				
Insulation resistance	G	reater than 50		OC .	Greater than 50MΩ@ 500V DC				
Dielectric strength test		500V AC	1 minute		500V AC 1 minute				
Structure specification	on								
Shell color		Light	-gray		Light-gray				
Shell material			BS		ABS				
Dimensions(mm)			72 × 57.9		310.6 × 230.6 × 55.7				
Cutout size(mm)			× 161				× 218		
Weight		1.2	7kg			2	kg		
Environment specific	ation								
Operating temperature			45℃				45℃		
Operating humidity			n-condensing				n-condensing		
Storage temperature									
Storage humidity			n-condensing						
Shockproof test	10~25H	Iz (X, Y, Z dire		minutes)	10~25Hz (X, Y, Z direction, 2G, 30 minutes)				
Cooling method		Natural a	ir cooling			Natural a	air cooling		
Certification									
Degree of protection			nt panel)		IP65 (front panel)				
CE certification		omply with EN			Comply with EN61000-6-2:2005				
	an	d EN61000-6-			and EN61000-6-4:2007standards				
FCC compatibility	atibility Complies with FCC Class A Complies with FCC Class A								



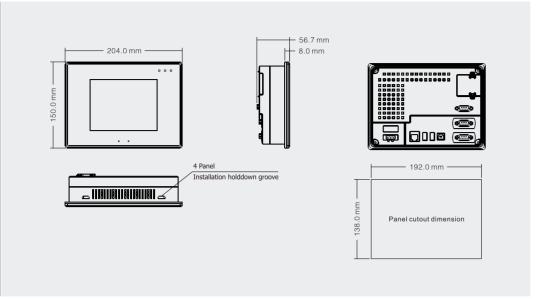


Model	MT5620T	MT5620T -DP	MT5620T -CAN	MT5620T -MPI	MT5720T	MT5720T -DP	MT5720T -CAN	MT5720T -MPI
Performance specific	ation							
Display		12.1	" TFT		15" TFT			
Resolution		800 × 60	00 pixels		1024 × 768 pixels			
Color		65	536			65	536	
Backlight		2 C	CFL			2 C	CFL	
Brightness		2500	cd/m²			2500	cd/m²	
Backlight life		5000	00 hr.			5000	00 hr.	
Touch Panel	4-w	ire precision r	esistance net	work	4-w	rire precision r	esistance net	work
Processor		32-bit RISC	CPU 520MHz			32-bit RISC	CPU 520MHz	
Memory		16M FLASH-	-32M SDRAM			16M FLASH-	+32M SDRAM	
Recipe memory & RTC		512KB	& RTC			512KE	& RTC	
Expandable memory	1 S	D Card (≤2G	B), 2 USB H	OST	1 S	D Card (≤2G	B), 2 USB H	OST
Printer port		USB/Se	rial port			USB/Se	rial port	
Ethernet		10/100	Base-T			10/100	Base-T	
Audio interface		1 Audio out	put interface			1 Audio out	put interface	
Vedio interface	2 PAL sign	al video input	interface,BN0	Connector	2 PAL sign	al video input		connector
Program download	1 USB S	SLAVE port/Se	rial port/Ethei	net port	1 USB S	SLAVE port/Se	rial port/Ether	net port
COM port		COM0:RS232/RS485-2/RS485-4,			COM0:RS232/RS485-2/RS485-4,			
·	COM1:RS232/RS485-2/RS485-4, COM2:RS232		COM1:RS232/RS485-2/RS485-4, COM2:RS232					
Expansion port	None	Profibus-DP		MPI	None	Profibus-DP		MPI
Electrical specification	on	·		<u>'</u>				
Rated power		15.	6 W		16.8 W			
Rated voltage		DC	24V		DC24V			
Input range		21~2	.8VDC		21~28VDC			
Momentary power-off		<3	Bms		<3ms			
Insulation resistance	G	reater than 50	OMΩ@ 500V [OC .	Greater than 50MΩ@ 500V DC			
Dielectric strength test		500V AC	1 minute			500V AC	1 minute	
Structure specification	on							
Shell color		Bla	ack			BI	ack	
Shell material		Me	etal		Metal			
Dimensions(mm)		350 × 26	54 × 48.7		406. 5 × 313. 5 × 48.3			
Cutout size(mm)		327	× 241		387.5 × 294.5			
Weight		4.3	3kg			5.	1kg	
Environment specific	ation				'			
Operating temperature		-10^	,60 ℃			0~.	50℃	
Operating humidity		10~90% noi	n-condensing		10~90% non-condensing			
Storage temperature			,70℃				-60℃	
Storage humidity		10~90% non-condensing		10~90% non-condensing				
Shockproof test	10~25H	Iz (X, Y, Z dire		minutes)	10~25⊦	Iz (X, Y, Z dire		minutes)
Cooling method		Natural air cooling				ir cooling	,	
Certification								
Degree of protection		IP65 (fro	nt panel)		IP65 (front panel)			
CE certification	Co	omply with EN		005	Co	omply with EN		05
		d EN61000-6-			and EN61000-6-4:2007standards			
FCC compatibility								

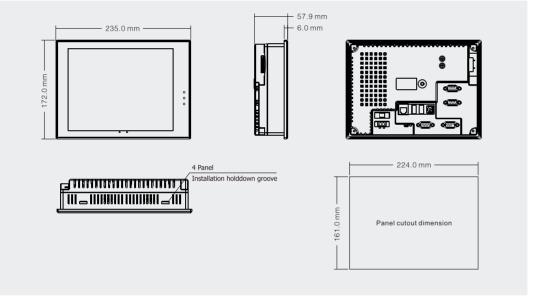
Dimensions (Unit:mm)

MT5320C MT5320C-DP MT5320C-CAN MT5320C-MPI

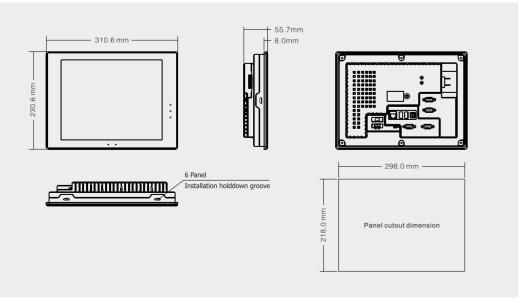
MT5323T MT5323T-DP MT5323T-CAN MT5323T-MP3



MT5423T MT5423T-DP MT5423T-CAN MT5423T-MPI

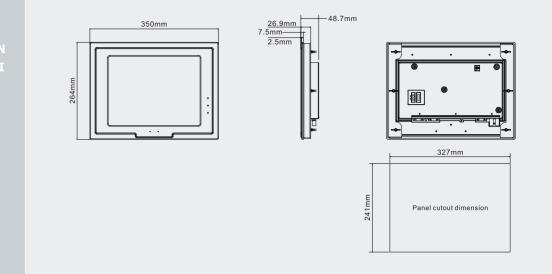


MT5520T MT5520T-DP MT5520T-CAN MT5520T-MPI

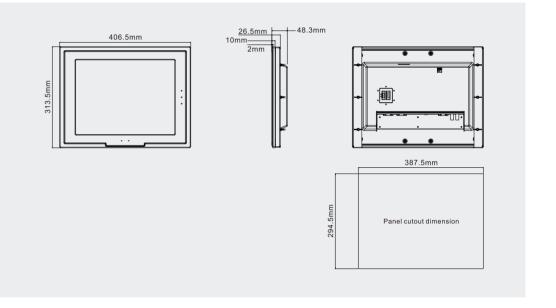


Dimensions (Unit:mm)

MT5620T MT5620T-DP MT5620T-CAN MT5620T-MP



MT5720T MT5720T-DP MT5720T-CAN MT5720T-MPI

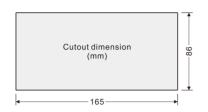


Text Display MD200/300 Series

MD204L







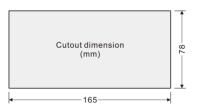
	### A M M M M M M M M M M M M M M M M M
Shell color	Grey
Display	4.3" STN
Resolution	192×64 Pixel (Supporting display of 4lines 12 Chinese characters)
Color	Monochromatic
Brightness	60cd/m ²
Contrast	Adjustable by Potentiometer
Backlight	Long Service life Yellow/Green LED
LCM life time	Greater than 50,000 Hours at 25±2°C, 65±10%RH
Panel	Non-touch screen
CPU	8-bit processor
Memory	64KB Flash ROM
Recipe memory	None
RTC	None
Function key	20 keys, customizable (Including 10 Numeric Input Keys)
COM port	COM0:PC RS232&PLC RS485/422&PLC RS232
CE	EN61000-6-2:2005, EN61000-6-4:2007

	Power supply	21~28VDC
	Current	MAX 150mA@24V DC
	Interference immunity test	Voltage 1500Vp-p, Pulse cycle 1µs, duration 1µs
	Dielectric strength	500V AC (1min)
	Isolation resistance	Exceed $10M\Omega$ at $500V$ DC
	Vibration endurance	10~25Hz (X, Y, Z Direction, 2G, 30 minutes)
	Protection class	IP65 Front Panel
	Operating temperature	0~50°C
	Storage temperature	-20~70°C
	Operating humidity	20~90%RH (non-condensing)
	Shell material	Engineering plastic ABS+PC
	$Dimensions(W \times H \times D)$	172×95×30 mm
	Display size(W×H)	101×36 mm
	Panel cutout dimension	165×86 mm
	Cooling method	Natural air cooling
	Weight	0.3 kg

MD214L







Shell color	Silver white
Display	4.3" FSTN
Resolution	192×64 Pixel (Supporting display of 4lines 12 Chinese characters)
Color	Monochromatic
Brightness	97cd/m ²
Contrast	Adjustable by Potentiometer
Backlight	White LED
LCM life time	Greater than 50,000 Hours at 25±2°C, 65±10%RH
Panel	Non-touch screen
CPU	8-bit processor
Memory	64KB Flash ROM
Recipe memory	None
RTC	None
Function key	19 keys, customizable (Including 10 Numeric Input Keys)
COM port	COM0:PC RS232&PLC RS485/422&PLC RS232
CE	EN61000-6-2:2005, EN61000-6-4:2007

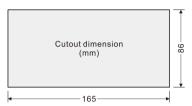
Power supply	21~28VDC
Current	MAX 150mA@24V DC
Interference immunity test	Voltage 1500Vp-p, Pulse cycle 1μs, duration 1μs
Dielectric strength	500V AC (1min)
Isolation resistance	Exceed $10M\Omega$ at $500V$ DC
Vibration endurance	10~25Hz (X, Y, Z Direction, 2G, 30 minutes)
Protection class	IP65 Front Panel
Operating temperature	0~50°C
Storage temperature	-20~70°C
Operating humidity	20~90%RH (non-condensing)
Shell material	Engineering plastic ABS+PC
$Dimensions(W{\times}H{\times}D)$	175×90×26 mm
Display size(W×H)	101×36 mm
Panel cutout dimension	165×78 mm
Cooling method	Natural air cooling
Weight	0.3 kg

Text Display MD200/300 Series

MD224L







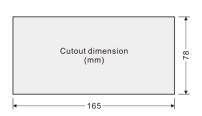
Shell color	Silver white
Display	4.3" STN
Resolution	192×64 Pixel (Supporting display of 4lines 12 Chinese characters)
Color	Monochromatic
Brightness	60cd/m ²
Contrast	Adjustable by Potentiometer
Backlight	Long Service life Yellow/Green LED
LCM life time	Greater than 50,000 Hours at $25\pm2^{\circ}\text{C}$, $65\pm10\%\text{RH}$
Panel	Non-touch screen
CPU	8-bit processor
Memory	64KB Flash ROM
Recipe memory	None
RTC	None
Function key	20 keys, customizable (Including 10 Numeric Input Keys)
COM port	COM0:PC RS232&PLC RS485/422&PLC RS232
CE	EN61000-6-2:2005, EN61000-6-4:2007

Power supply	21~28VDC
Current	MAX 150mA@24V DC
Interference immunity test	Voltage 1500Vp-p, Pulse cycle 1μs, duration 1μs
Dielectric strength	500V AC (1min)
Isolation resistance	Exceed $10M\Omega$ at $500V$ DC
Vibration endurance	10~25Hz (X, Y, Z Direction, 2G, 30 minutes)
Protection class	IP65 Front Panel
Operating temperature	0~50°C
Storage temperature	-20~70°C
Operating humidity	20~90%RH (non-condensing)
Shell material	Engineering plastic ABS+PC
Dimensions(W×H×D)	172×95×30 mm
Display size(W×H)	101×36 mm
Panel cutout dimension	165×86 mm
Cooling method	Natural air cooling
Weight	0.3 kg

MD304L







Shell color	Silver white
Display	4.3" FSTN
Resolution	192×64 Pixel (Supporting display of 4lines 12 Chinese characters)
Color	Monochromatic
Brightness	97cd/m²
Contrast	Adjustable by Potentiometer
Backlight	White LED
LCM life time	Greater than 50,000 Hours at 25±2°C, 65±10%RH
Panel	Non-touch screen
CPU	8-bit processor
Memory	64KB Flash ROM
Recipe memory	2KB EEPROM
RTC	Accuracy 30PPM
Function key	19 keys, customizable (Including 10 Numeric Input Keys)
COM port	COM0:PC RS232&PLC RS485/422&PLC RS232
CE	EN61000-6-2:2005, EN61000-6-4:2007

Power supply	21~28VDC
Current	MAX 150mA@24V DC
Interference immunity test	Voltage 1500Vp-p, Pulse cycle 1μs, duration 1μs
Dielectric strength	500V AC (1min)
Isolation resistance	Exceed $10M\Omega$ at $500V$ DC
Vibration endurance	10~25Hz (X, Y, Z Direction, 2G, 30 minutes)
Protection class	IP65 Front Panel
Operating temperature	0~50°C
Storage temperature	-20~70°C
Operating humidity	20~90%RH (non-condensing)
Shell material	Engineering plastic ABS+PC
$Dimensions(W{\times}H{\times}D)$	175×90×26 mm
Display size(W×H)	101×36 mm
Panel cutout dimension	165×78 mm
Cooling method	Natural air cooling
Weight	0.3 kg

Software Description

Kinco HMIware is suitable for MT4000/MT5000 series HMIs.

Operation window:

A simple and practical platformfor project design and editing

- ·Completing all functions from editing components library and simulation compilation, to download:
- ·Browse various project information and make better adjustment in time.

Project file window

Facilitate in modifying components library

- · Click an image library file, and the user can browse and edit the file:
- · Visual understanding of the HMI quantity used.



All windows can be dragged freely, and a user can create individualized operation interfaces according to his/her own habits.

Menu bar:

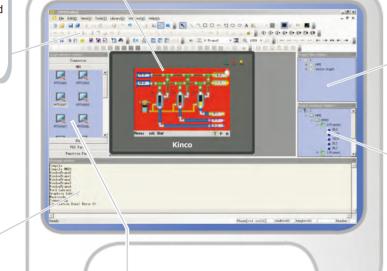
True color icon, visual and convenient navigation

- · Familiar icon style for most users, easy to use;
- · Simple and visual function

Compilation information window

Display compilation progress After compilation display,

the user can download files



Project structure window

Master the conditions of the entire project

Master the HMI, HMI components and PLC type used for the entire project.



Components library window

Five components libraries, meeting design requirements



Communication

ATTEMENT PRODUCT

Touch screen





PLC

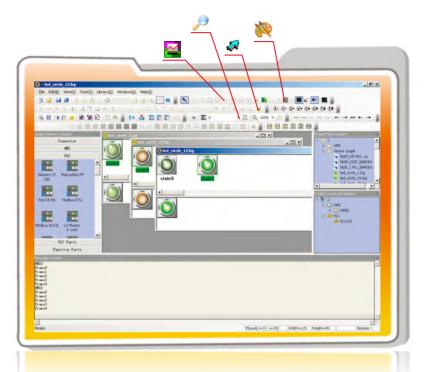






PLC components Functional components

Software Description



Completely support contrast and brightness adjustment

The contrast and brightness of the LCD can be adjusted online through setting special register without the need to adjust them by means of jumper switch or potentiometer.

Rich components library resources Facilitate in making beautiful configuration interfaces

The original components libraries of the HMIware can meet design requirements in most cases. If a customer has special requirement, he can build own graph library with the drawing tools of HMIware software. HMIware has a huge number of 3D effect components which facilitate in making mobile 3D graphics and animation.

Digital photos/Corporate logo import

The HMIware supports the import of multiple Windows image formats, such as JPEG, GIF and BMP. The user can import their own logo or other images as initial screen.

Supporting all fonts of the Windows platform

In graphic mode, static text can be displayed in any fonts supported by the windows system on the configuration interface. The user has more choice for fonts now.

Recipe editing function

Providing Max.256K Words recipe memory, without any loss upon power failure, facilitating the setting and modification of initial values of the equipment, capable of providing multiple different recipes for the controller.

Perfect event log function

It can store records of events occurred during production, without any loss upon power failure, facilitating invocation anytime; if necessary, this function can be used to learn the operational history of the equipment and improve the design of the process flow.

Powerful vector graphic function, supporting drawing of arcs, sectors, scales and pointers at any angle

Eight line width options



Supporting drawing of various vector-based image

Wer-defined color filling in multiple modes

Password protection

16 different authority levels, authorized operators can execute necessary setting and operations according to their authority level. The security performance of the system is greatly enhanced.

Multi-language application environment

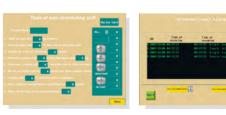
Any language supported by Windows can be displayed on the panel. The user can use up to 4 languages within a project, which makes it possible for global users to share their wisdom with their clients worldwide.



Bitmap image

Vector graph





Software Description



Learn compiling macro commands in ten minutes

Macro codes compatible with standard C language can be triggered in multiple methods, featuring powerful function and flexible use.

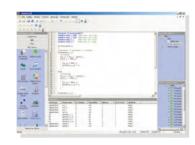
In the past

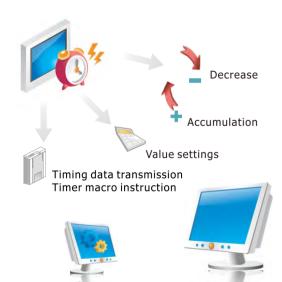
Most HMIs in the market use respectively defined script languages, lack of versatility, which are hard to learn since there is no sufficient reference resources, and furthermore they cannot be implanted into other HMI panels.

Present

The HMIware provides unique macro instruction compilation fully compatible with the standard C language. If you are familiar with the C language, you can learn how to code macro instructions in ten minutes. The rich reference documents, powerful function, and easy portability greatly enhance the macro command function of the HMIware.

Other configuration





HMIware configuration

software

Powerful online networking and synchronous communication function and rapid processing speed have simplified the complicated process flow design.

Powerful timer function

- The timer of MT4000/MT5000 can implement the timing of a minimum of 100 ms, featuring accurate timing;
- Configured with multiple functions such as timed data transfer, value settings, accumulation, decrease, and timed macro instruction;
- Multiple trigger modes such as register trigger and initialization trigger, to facilitate users in implementing flexible configuration programming.

Customizable startup LOGO window

Different from other HMIs which do not have any screen display upon startup, the MT4000/MT5000 can immediately display a user-defined LOGO upon power-on until the configuration window finishes startup, lasting about five seconds. The user can freely edit and modify the startup window.

Provide Chinese Automation Solutions for Global Customers





Kinco provide total CANopen solution in Corrugated paper slitting machine

System: Kinco MT5000 Series HMI+Kinco F1 PLC+Kinco FD Series Servo **Features:** -High efficiency,high accuracy

High efficiency, high accurates
 Easy programming
 Simple wiring, more stable.



Kinco provides servo system in Wood-Carving machine

System: Kinco CD Series Servo Features: -High efficiency, high accuracy.



Solution

Kinco provides CANopen servo system in Plasma cutting machine

System: Kinco JD Series Servo
Features: -High efficiency, high accuracy
-Simple wiring, more stable.

 $oxed{25}$