A comparison between the GREEN series and the MT4000 series

The first product of MT4000 series is listed in 2007. It has been over 10 years ago. More than a million products are sold to more than 40 countries and regions in the world. It serves many industries and has become a classic work based on the human machine interface of Linux platform. In the new era, we inherit the development experience of the more than 10 year professional human machine products and absorb the latest technological achievements of the semiconductor industry. Then we continue to innovate and launch a new generation of industrial human-machine interface - GREEN series.

The Green series is based on open Linux operating system and uses the CPU platform with over 10 years life cycle. After 1 recent year of market inspection at the user side, the products become more reliable, stable and have excellent performance, which is an ideal choice for seeking long-term stable and high quality human machine interface.

GH150E		Note
GHISUE	MT4720TE	The 15° green series HMIs, which is the enhanced series, has more serial ports. Its installment size is different but hole dimension is same.
GH104E	MT4523TE	Same Hole size
GH070E	MT4424TE	Same Hole size
GH070	MT4404T	Same Hole size
GH043	MT4210T	Same Hole size
GH043E	MT4220TE	Same Hole size
G070	MT4414T	Same Hole size
G070E	MT4414TE	Same Hole size
G070E-CAN	MT4414TE-CAN	Same Hole size
GL150E		15'' Economic type
GL104E	MT4513TE	Same Hole size
GL100E	MT4532TE	Same Hole size
GL100	MT4532T	Same Hole size
GL070E	MT4434TE	Same Hole size
GL070	MT4434T	Same Hole size
GL043E	MT4230TE	Same Hole size
GI043	MT4230T	Same Hole size

Tips

- 1. For new projects, Kinco strongly suggest our customers to choose the Green series products and don't suggest to choose the MT4000 series.
- 2.The old projects in MT4000 series products can be opened directly in DTools. After simulation, they can downloaded to corresponding new type HMIs





○ Kinco HMI Catalog

- GREEN Series
- Customized Series



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GREEN Series Desription

Concentrate on making good products and strive to create high quality human-machine interface.

The GREEN series is a new generation of industrial human machine interface. It adopts new architecture design, rigorous craft support, which makes it become paradigm in high-quality human machine interface. The GREEN series adopts mainstream processor in the market. Not only does it ensure the product's life time, but also greatly improves the performance of the product.



Powerful hardware and software . More comprehensive upgrades



New structure & exquisite body Material Science

Higher hardness and intensity; Higher temperature resistance remains unchanged.

Kernel

Color

Kernel, version upgrades, more stable performance CPU

Memory

CPU, The memory
Freescale industrial DDR3 is upgraded
class 792MHZ to 128M

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^{*} remarks: It is estimated that they will listing on the fourth quarter of 2018. Coming soon.

Enhanced Type

KINCO new generation of industrial Human Machine interface

GREEN Series

The GREEN series products use the most advantageous ARM Cortex-A7 architecture industrial-grade processors, which ensure that HMIs efficiently work.

KINCO's smart factory, provides reliable guarantee for high-quality production in long-term.

GREEN Series Contains three sub series:



- Up to 4 serial ports (excluding 4.3") Ethernet,
 - standard USB master port, slave port
 - built-in isolation power, serial port isolation (Ethernet model)
 - coating in mainboard



- t, 3 serial port, Ethernet - standard USB main port, slave port
- built-in isolation power supply



- 2 serial port
- Ethernet standard USB master
port, slave port
(excluding 4.3)

Configuration Software:





The GREEN series cooperates with new generation free configuration software: Kinco DTools. It supports four languages versions of Chinese, English, Korean and Russian. The configuration design content supports all fonts installed in computer system.

VNC achieves interoperation between HMI and HMI, HMI and PC, mobile phones (or other terminals), supports convenient components such as installment, PDF browsing and operating log records for designing guiding interface. It is the humanized design and easy to use.

GH Series

4.3"

GH043/GH043E

- Preferred models for subway, high-speed railway and other rail transit
- Main board Three-denfence treatment to effectively deal with complex environment
- · Built-in isolation power to enhance reliability
- · Classic shape, hidden serial port out of line

и		
	Kinco	

Classic snape, nidden serial	portoutorline		
Model	GH043*	GH043E*	Mechanical Dimensions (Unit: mm
Performance specification			
Display size	4.3	3"TFT	
Display area	95.04mm(W	/)x53.86mm(H)	
Resolution	480*2	72 pixels	
display color	1677 color		
Display angle of view	70/70/50/70(le	ft/right/up/down)	145.2
contrast ratio	5	00:1	
Backlight		LED	154
brightness	300	0cd/m2	154
Backlight life	More than	30000 hours	GREEN SERVES
Touch panel	4 line precision resistance r	network (surface hardness 4H)	
CPU	ARM RISC	32Bit 792MHz	89
storage	128MB NAND Flash Mem	nory+128MB DDR3 Memory	10H O
RTC	Built-in re	eal time clock	Kinco
Extensible memory	USB Host	1 USB Host + 1 SD Card	
Print port	USB Host/serial port	USB Host/serial port	
Ethernet	None	10/100MHz self-adaption	59.8
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	6
Communication port	COM0:RS232/RS485/RS422;	COM0:RS232/RS485/RS422:	
,	COM2:RS232;	COM2:RS232;	
Serial port isolation	None	None	
Electrical specifications			
Input power supply	DC12V ~ DC28V,Built-ir	n isolation power supply	
Power waste	3.5W @	24V DC	
Allowable loss of power	<3	Bms	
Insulation resistance	Over 50MΩ	2@500V DC	
Hi-pot test	500 VAC	1 minute	
Structure specification			
Shell material	Engineer	ring plastic	
Shape size	154mm*8	9mm*60mm	
Installation hole size	146mr	n*81mm	
Weight	0.	4Kg	
Environmental specifications			│
Temperature of Working		-10 ~ 55°C	
environment			
Humidity of working	10 ~ 90 % R	H (non-condensing)	
environment			
Storage environment		-20 ~ 60°C	
temperature			146
Storage environment humidity	10 ~ 90 % R	H (non-condensing)	
Anti-seismic degree	10 ~ 500Hz (X , Y	'、Z direction 2G/30 minute)	
Cooling mode	Nat	tural air cooling	81 Cut-out size
Product certification			
Panel protection grade		65 certification(4208—93)	
CE authentication	EN6100-6-4:2007+	-A1:2011,EN61000-6-2:2005	
Software			
configuration software	Kinco DTools V3	3.2 and above version	

^{*} remarks: It is estimated that they will listing on the fourth quarter of 2018. Coming soon.

^{*} remarks: It is estimated that they will listing on the fourth quarter of 2018. Coming soon.

Enhanced Type

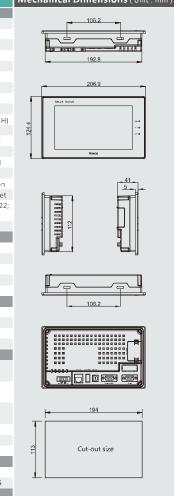
GH Series

GH070/GH070E

- Suitable for high reliability expected situations
- Three anti spraying + multiple isolation more reliable
- Up to four serial port +SD card expansion
- artistically ultra-narrow border



Model	GH070	GH070E	Mechanical D	Dimensions (Unit : mn
Performance specification				
Display size	7"	TFT		106.2
Display area	154.08mm(W	/)x85.92mm(H)	-	
Resolution	800*48	30 pixels		
display color	1677	color	CAN RESIDE	192.8
Display angle of view	70/70/50/70(lef	t/right/up/down)	-	192,0
contrast ratio	50	00:1		
Backlight	LED		-	206.9
Brightness	4000	cd/m2	GRALIN SLINES	
Backlight life	3000	00 hrs		
Touch panel	4 line precision resistance n	etwork (surface hardness 4H)		** 0
CPU		2Bit 792MHz	124.4	** 0 ₽* 0
Storage	128MB NAND Flash Mem	ory+128MB DDR3 Memory		
RTC		ilt-in		Kinco
Extensible memory	1 USB Host	1 USB Host + 1 SD Card		
Print port	USB Host/serial port	USB Host/serial port		
Ethernet	None	10/100MHz self-adaption		41.
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	f——	<u></u>
Communication port	COM0:RS232/RS485/RS422:	COM1:RS232/RS485/RS422;		
·		COM3:RS485;		ПШ
Serial port isolation	None	Built-in	2 2 2	االإ
Electrical specifications				4 1
Input power supply	DC12V~DC28V,Built-in	isolation power supply		
Power waste	5W @2	4V DC		В
Allowable loss of power	<31	ms		
insulation resistance	Over 50MΩ	@500V DC		
Hi-pot test	500 VAC	1 minute	77	7 7 7
Structure specification				106.2
Shell material	Engineeri	ng plastic	-	
Shape size	207mm*12!	5mm*46mm		
Installation hole size	194mm	*113mm	P	
Weight	0.6	iKg		######################################
Environmental specifications				0000000
Temperature of Working	-10 ~	55℃		
environment				
Humidity of working	10 ~ 90 % RH (ne	on-condensing)	(- 200 -10	
environment				
Storage environment	-20 ~	60℃	1-	194 1
temperature				
Storage environment humidity	10 ~ 90 % RH (ne	on-condensing)	†	
Anti-seismic degree	10 ~ 500Hz (X, Y, Z d	irection 2G/30 minute)		
Cooling mode	Natural a	ir cooling	113	Cut-out size
Product certification				
Panel protection grade	Conforming to IP6	5 certification(4208—93)		
CE authentication	EN6100-6-4:2007+	A1:2011,EN61000-6-2:2005		



GH Series GH104E

- Suitable for high reliability expected situations
- Three anti spraying + multiple isolation more reliable
- Up to four serial port +SD card expansion
- industrial size 4:3, display area is 20% higher than the widescreen

Model	GH104E*	Mechanical Dimensions	Unit : n
Performance specification			
Display size	10.4"TFT		
Display area	211.20mm(W)x158.40mm(H)	310	-56
Resolution	800*600 pixel		l le
display color	1677 color		
Display angle of view	70/70/60/70(left/right/up/down)		
contrast ratio	500:1	- 530 -	
Backlight	LED	Ÿ ·	ון וו
Brightness	350cd/m2		H
Backlight life	30000 hrs		ш
Touch panel	4 line precision resistance network (surface hardness 4H)		, =
CPU	ARM RISC 32Bit 792MHz		
Storage	128MB NAND Flash Memory+128MB DDR3 Memory		
RTC	Built-in		
Extensible memory	1 USB Host + 1 SD Card	<u> </u>	
Print port	USB Host/serial port	المراجع المالية	,
Ethernet			
	10/100MHz self-adaption		
Program download	USB Slave/U disk/Ethernet		
Communication port	COM0:RS232/RS485/RS422; COM1: RS232/RS485/RS422; COM2:RS232; COM3: RS485;		
Serial port isolation	Built-in		
Electrical specifications		 	
Input power supply	DC12V ~ DC28V,Built-in isolation power supply		
Power waste	TBD		
Allowable loss of power	<3ms		
insulation resistance	Over 50MΩ@500V DC		l
Hi-pot test	500 VAC 1 minute		
Structure specification			
Shell material	Engineering plastic		
Shape size	310mm*230mm*56mm		Т
Installation hole size	299mm*219mm		
Weight	TBD		
Environmental specifications	100	Cut-out size	219
Temperature of Working environment	-10 ~ 55°C		
Humidity of working	10 ~ 90 % RH (non-condensing)		1
environment		299	
Storage environment	-20 ~ 60°C		
temperature			
Storage environment humidity	10 ~ 90 % RH (non-condensing)		
Anti-seismic degree	10 ~ 500Hz (X, Y, Z direction 2G/30 minute)		
Cooling mode	Natural air cooling		
Product certification			
Panel protection grade	Conforming to IP65 certification(4208—93)		
CE authentication	EN6100-6-4:2007,EN61000-6-2:2005		
Software			
configuration software	Kinco DTools V3.2 and above version		

^{*} remarks: It is estimated that they will listing on the fourth quarter of 2018. Coming soon.

^{*} remark: GH070 can replace MT4404T; GH070E can replace MT4424TE. (Old version projects can be simulated in DTools and download to Green series's HMI)

Standard Type

GH Series

15"

GH150E

- •It is suitable for high reliability expected situations
- •Three anti spraying + multiple isolation more reliable
- •Up to four serial port +SD card expansion
- Fashion design, graceful and decent



Model	GH150E	Mechanical Dimensions (Unit : n
Performance specification		
Display size	15*TFT	269
Display area	304.13mm(W)x228.10mm(H)	
Resolution	1024*768 pixel	382
display color	65536 color	302
Display angle of view		
contrast ratio	80/80/80/80(left/right/up/down)	
	800:1	398
Backlight	LED	DAM SALE
Brightness	420cd/m2	
Backlight life	50000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	866
CPU	ARM RISC 32Bit 792MHz	ČÍ
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in real time clock	
Extensible memory	1 USB Host +1 SD card	Kinca
Print port	USB Host/serial port	
Ethernet	10/100MHz self-adaption	
Program download	USB Slave/U disk/Ethernet	47_
Communication port	COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422; COM2:RS232; COM3:RS485;	30 7 (Include sea
Serial port isolation	Built-in	
Electrical specifications		
Input power supply	DC21V ~ DC28V, Built-in isolation power supply	
Power waste	16W	88 1 88
Allowable loss of power	<3ms	
insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specification	000 7710 1 111111210	
Shell material	Engineering plastic	
Shape size	398mm*298mm*47mm	
Installation hole size	383mm*283mm	
Weight	3Kq	229
Environmental specifications	ang ang	
Temperature of Working	-10 ~ 55°C	
environment		383
Humidity of working environment	10 ~ 90 % RH (non-condensing)	
Storage environment temperature	-20 ~ 60 ℃	Cut-out size
Storage environment humidity	10 ~ 90 % RH (non-condensing)	34.54.54.5
Anti-seismic degree	10 ~ 500Hz (X, Y, Z direction 2G/30 minute)	
Cooling mode	Natural air cooling	
Product certification	Natural an cooning	
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN6100-6-4:2007.EN61000-6-2:2005	
Software	LINOTOU-U-4.2007,LINOTOUU-U-2.2003	
	Kinne DTI-V2 2 d -l	
configuration software	Kinco DTools V3.2 and above version	

* remark: GH150E can replace MT4720TE.(Old version projects can be simulated in DTools and download to Green series's HMI)



G070/G070E/G070E-CAN

- •Built-in isolation power to enhance reliability
- High brightness liquid crystal provide better display effect
- •CAN port is supported
- •Three series ports meet diverse needs

Model	G070*	G070E*	G070E-CAN*	Mechanical Dimensi	ons (Unit : r
Performance specification					
Display size		7"TFT		158.5	
Display area		154.08mm(W)x85.	92mm(H)		
Resolution		800*480 pix	. ,		
display color	1677 color		165		
Display angle of view	70/70/60/70(left/right/up/down) RDH10		189.72		
contrast ratio	500:1		204	 1	
Backlight	LED				
Brightness		400cd/m2			
Backlight life		More than 30000			
Touch panel	4 line pre	cision resistance networ			
CPU	· ····c p·c	ARM RISC 32Bit 7		150	≟
Storage	128MR	NAND Flash Memory+1			+
RTC	1201110	Built-in	DDNS MCIIIOTY		
Extensible memory		1 USB Hos	t		
Print port		USB Host/seria			34.2
Ethernet	None	10/100MHz self-adaption	10/100MHz self-adaption	4.5	25 6.5 (Include se
Bus interface	None	None	1*CANopen	0	
Program download	USB Slave	USB Slave	USB Slave		M
rrogram download	/U disk	/U disk/Ethernet	/U disk/Ethernet		
Communication port	COM0:RS232/RS485/RS422; COM1:RS485;COM2:RS232;		89.97	87	
Electrical specifications				<u> </u>	
Input power supply	DC12V ~ DC28V,Built-in isolation power supply			ll'II	
Power waste	TBD				
Allowable loss of power		<3ms		135	 1
insulation resistance		Over 50MΩ@500	V DC		
Hi-pot test		500 VAC 1 minu	ıte	<u> </u>	
Structure specification				5.	19 4
Shell material		Engineering plas	tic	"	
Shape size		204mm*150mm*34		•	•
Installation hole size		192mm*138mn			
Weight		0.5Kg			
Environmental specifications					
Temperature of Working		0 ~ 50℃		100 mm at	
environment					
Humidity of working		10 ~ 90%RH (non-cond	lensing)		
environment				192	
Storage environment		-20 ~ 60℃			
temperature		20 30 C			
Storage environment humidity		10 ~ 90%RH (non-cond	lensing)		
Anti-seismic degree		00Hz (X、Y、Z direction	3 .		
Cooling mode	10 - 3	Natural air cooli		연 Cut-out size	
Product certification		ivaturaran coom	'9		
Panel protection grade	Cor	nforming to IP65 certific	ation(4208—93)		
CE authentication		EN6100-6-4:2007,EN61			
Software		L140100-0-4.2007,EN01	000 0 2.2000		

configuration software Kinco DTools V3.2 and above version
* remarks: It is estimated that they will listing on the fourth quarter of 2018. Coming soon.

Economy Type



4.3"

GL043/GL043E

- Suitable for small space occasions
- •Beautiful appearance, ultra-thin body
- •High cost-effective



Model	GL043	GL043E
Performance specification		
Display size	4.3	"TFT
Display area	95.04mm(W)	x53.86mm(H)
Resolution		2 pixels
display color		color
Display angle of view	70/70/50/70(lef	t/right/up/down)
contrast ratio		0:1
Backlight		ED
Brightness	4500	:d/m2
Backlight life		00 hrs
Touch panel		etwork (surface hardness 4H)
CPU		2Bit 792MHz
Storage		ory+128MB DDR3 Memory
RTC		ıl time clock
Extensible memory		one
Print port		s port
Ethernet	None	10/100MHz self-adaption
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet
Communication port		/RS485/RS422;
communication port		:RS232;
Electrical specifications		
nput power supply	DC10V ~ DC28V	
Power waste	2W @24V DC	
Allowable loss of power	<3ms	
insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specification		
Shell material	Engineeri	ng plastic
Shape size	132mm*102	?mm*33mm
Installation hole size	119mm	*93mm
Weight	0.21	1Kg
Environmental specifications		
Temperature of Working	0 ~ 5	50°C
environment		
Humidity of working	10~90%RH (no	n-condensing)
environment		, , , , , , , , , , , , , , , , , , , ,
Storage environment	-20 ~	60°C
temperature		
Storage environment humidity	10~90%RH (no	n-condensing)
Anti-seismic degree	10 ~ 500Hz (X, Y, Z di	<u> </u>
Cooling mode	Natural ai	
Product certification	ivatarara.	in cooling
Panel protection grade	Conforming to IR6	5 certification(4208—93)
CE authentication	-	07,EN61000-6-2:2005
Software	LINO100-0-4.20	07,ENGIU00-0-2.200J
	Vines DTs -1-1/2	2 and above version
configuration software	KINCO DIOOIS V3.	z and above version

^{*} remark: GL043 can replace MT4230T; GL043E can replace MT4230TE. (Old version projects can be simulated in DTools and download to Green series's HMI)



GL070/GL070E

- Preferred model for general use
- A non-hollow mask is more effective against oil pollution
- Beautiful appearance, ultra-thin body
- High cost-effective



Model	GL070	GL070E
erformance specification		
Display size	7"Т	
Display area	154.08mm(W)	x85.92mm(H)
Resolution	800*48	0 pixel
Display color	1677	color
Display angle of view	70/70/50/70(left	/right/up/down)
Contrast ratio	500	0:1
Backlight	LE	D
brightness	250cd/m2	
Backlight life	3000	0 hrs
Touch panel	4 line precision resistance ne	twork (surface hardness 4H)
CPU	ARM RISC 32	Bit 792MHz
Storage	128MB NAND Flash Memo	ry+128MB DDR3 Memory
RTC	Buil	t-in
Extensible memory	1 USB	Host
Print port	USB Host/s	serial port
Ethernet		10/100MHz self-adaption
Program download		JSB Slave/U disk/Ethernet
Communication port	COM0:RS232/	
'	COM2:	
Electrical specifications		
nput power supply	DC10V~	DC28V
Power waste	3.6W @2	
Allowable loss of power	3.0w@2	
insulation resistance	Over 50MΩ@	
Hi-pot test	500 VAC 1	
Structure specification	300 VAC 1	minute
Shell material	Enginagrin	a plactic
Shape size	Engineering plastic 204mm*150mm*34mm	
Installation hole size	204IIIII 130I	
Veight	0.51	Kg
Environmental specifications		
Temperature of Working	0 ~ 5	0°℃
environment		
Humidity of working	10~90%RH (nor	n-condensing)
environment		
Storage environment	-20 ~ (60℃
temperature		
Storage environment humidity	10~90%RH (nor	n-condensing)
Anti-seismic degree	10 ~ 500 Hz (X, Y, Z dir	ection 2G/30 minute)
Cooling mode	Natural air	rcooling
Product certification		
Panel protection grade	Conforming to IP65	certification(4208—93)
CE authentication	EN6100-6-4:200	7,EN61000-6-2:2005
Software		
configuration software	Kinco DTools V3.2	and above version

^{*} remark: GL070 can replace MT4434T; GL070E can replace MT4434TE. (Old version projects can be simulated in DTools and download to Green series's HMI)

Economy Type

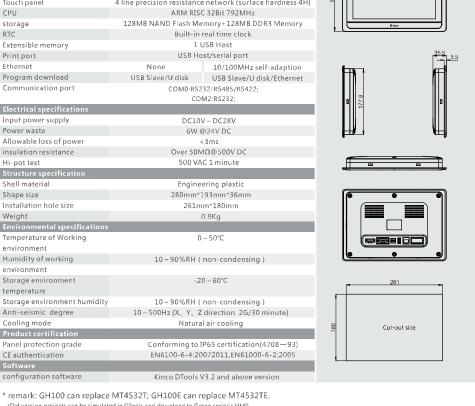


GL100/GL100E

- Preferred model for general use in 10 inch screen
- •A non-hollow mask is more effective against oil pollution
- •Beautiful appearance, ultra-thin body
- •High cost-effective



Model	GL100	GL100E	Mech
Performance specification			
Display size	10).1"TFT	
Display area	222.72mm(V	N)x125.28mm(H)	
Resolution	1024*	600 pixels	
Display color	167	77 color	
Display angle of view	70/70/60/70(le	eft/right/up/down)	
Contrast ratio	!	500:1	-
Backlight		LED	
Brightness	40	0cd/m2	
Backlight life	More tha	n 30000 hours	193.3
Touch panel	4 line precision resistance	network (surface hardness 4H)	- 6
CPU	ARM RISC	32Bit 792MHz	
storage	128MB NAND Flash Mer	mory+128MB DDR3 Memory	
RTC	Built-in r	eal time clock	'-
Extensible memory	1 U	SB Host	
Print port	USB Hos	st/serial port	
Ethernet	None	10/100MHz self-adaption	
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	
Communication port	COM0:RS23	32/RS485/RS422;	
	COM	/12:RS232;	
Electrical specifications			
Input power supply	DC10V	′ ~ DC28V	
Power waste	6W @24V DC		
Allowable loss of power	<	3ms	
insulation resistance	Over 50M	Ω@500V DC	
Hi-pot test	500 VAC	C 1 minute	
Structure specification			
Shell material	Enginee	ering plastic	
Shape size	280mm*1	93mm*36mm	
Installation hole size	261mr	m*180mm	
Weight	0).9Kg	
Environmental specifications			
Temperature of Working	0 -	~ 50°C	
environment			
Humidity of working	10~90%RH (r	non-condensing)	
environment			
Storage environment	-20)~60℃	
temperature			_
Storage environment humidity	10~90%RH (r	non-condensing)	1
Anti-seismic degree	10 ~ 500Hz (X, Y, Z	direction 2G/30 minute)	
Cooling mode	Natural	air cooling	180
Product certification			18
Panel protection grade	Conforming to IF	965 certification(4208—93)	
CE authentication	EN6100-6-4:200	072011,EN61000-6-2:2005	
Software			"
configuration software	Kinco DTools V	3.2 and above version	



⁽Old version projects can be simulated in DTools and download to Green series's HMI)



GL104E

- Built-in isolated power supply to enhance reliability
- Industrial size 4:3, possessing greatful visual coordination
- Firm structure
- High cost-effective

Model	GL104E*	Mechanical [) Dimensi
rformance specification			
splay size	10.4"TFT		
splay area	211.20mm(W)x158.40mm(H)		-310
solution	800*600 pixel		
splay color	1677 color		
splay angle of view	70/70/60/70(left/right/up/down)		
ontrast ratio	500:1	- 530 -	
cklight	LED		
rightness	350cd/m2		
icklight life	30000 hours		
ouch panel	4 line precision resistance network (surface hardness 4H)		
PU	ARM RISC 32Bit 792 MHz		
orage	128MB NAND Flash Memory+128MB DDR3 Memory		
rc .	Built-in real time clock		
tensible memory	1 USB Host		
,	USB Host/serial port	4.2 1	
rint port	10/100MHz self-adaption		
thernet			
rogram download	USB Slave/U disk/Ethernet		
ommunication port	COM0:RS232/RS485/RS422;	10	6
	COM2:RS232;		******
lectrical specifications			
put power supply	DC21V ~ DC28V, Built-in isolation power supply		
ower waste	TBD		<u></u>
llowable loss of power	<3ms		
nsulation resistance	Over 50MΩ@500V DC	_نسا_	
i-pot test	500 VAC 1 minute		
tructure specification			
hell material	Engineering plastic		
hape size	310mm*230mm*56mm		
stallation hole size	299mm*219mm		
eight	TBD		
vironmental specifications			
emperature of Working	0 ~ 50℃		Cut-ou
nvironment			
lumidity of working	10~90%RH (non-condensing)		
nvironment			
torage environment	-20 ~ 60°C	H	29
emperature			
torage environment humidity	10~90%RH (non-condensing)		
nti-seismic degree	10 ~ 500Hz (X, Y, Z direction 2G/30 minute)		
ooling mode	Natural air cooling		
roduct certification			
anel protection grade	Conforming to IP65 certification(4208 — 93)		
E authentication	EN6100-6-4:2007,EN61000-6-2:2005		
oftware			
nfiguration software	Kinco DTools V3.2 and above version		
3			

^{*} remarks: It is estimated that they will listing on the fourth quarter of 2018. Coming soon.

Customized Series

GL Series

GL150E

- Preferred model for general use in 15 inch screen
- Built-in isolated power supply to enhance reliability
- Industrial size 4:3, possessing greatful visual coordination
- Firm structure



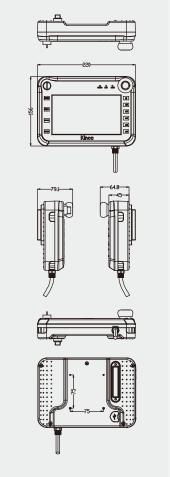
Model	GL150E	Mechanical Dimensions (Unit: mm
Performance specification		
Display size	15"TFT	269
Display area	304.13mm(W)x228.10mm(H)	***************************************
Resolution	1024*768 pixel	382
Display color	65536 color	
Display angle of view	80/80/80/80(left/right/up/down)	
Contrast ratio	800:1	398
Backlight	LED	
Brightness	420cd/m2	
Backlight life	50000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	ARM RISC 32Bit 792MHz	538
storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in real time clock	
Extensible memory	1 USB Host	
Print port	USB Host/serial port	
Ethernet	10/100MHz self-adaption	
Program download	USB Slave/U disk/Ethernet	47
Communication port	COM0:RS232/RS485/RS422;	7 (Include sealing in
	COM2:RS232;;	1
Electrical specifications		i min ind
Input power supply	DC21V ~ DC28V	╵ ╶┌╫ ╟ <u>╻</u> │
Power waste	16W@24V DC	
Allowable loss of power	<3ms	88 H 18
insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	<u> </u>
Structure specification		<u> </u>
Shell material	Engineering plastic	
Shape size	398mm*298mm*47mm	
Installation hole size	383mm*283mm	
Weight	3Ka	
Environmental specifications		229
Temperature of Working	-10 ~ 55°C	
environment		
Humidity of working	10~90%RH (non-condensing)	383
environment		
Storage environment	-20 ~ 60°C	
temperature		
Storage environment humidity	10~90%RH (non-condensing)	Cut-out size
Anti-seismic degree	10~500Hz (X, Y, Z direction 2G/30 minute)	Cut-out size
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN6100-6-4:2007,EN61000-6-2:2005	
Software		
configuration software	Kinco DTools V3.2 and above version	

SZ7 Series handheld terminal

- Series:SZ7(kinco HMIWare software),SZ7(WinCE)
- Remote control:with hand-held terminal, support 5m/10m/15m long distance operation.
 Easy for installation:support FDMI standard(75 * 75mm)bracket or rack installation.



Model	SZ7	SZ7S	SZ7E	SZ7ES	М
Performance specificat					
Display size	7"TFT				
Resolution	800*480 pixels	3			
Display color	65536 color				
Brightness	250cd/m2				
Backlight	LED				
Touch panel	4 line precisio	n resistance net	work (surface h	ardness 4H)	
Backlight life	50000 hours				
programable button	1		10		
programable LED	2		2		
Emergency button	1		1		
Selection Switch	1		1		
Dead-man switch	None	1	None	1	
processor	800MHz RISC				
Memory	128MB Flash +	64MB RAM			
Recipe memory&RTC	256KB + RTC				
Expandable memory	1 USB Host				
Series port	1*RS485-2,RS	232	Rs232		
Ethernet	None		1*10M/100M s	elf-adaptive	
Program download	RS232,USB Ho	st	RS232,USB Ho	st,Ethernet	
COM port	RS485-2,RS23	2	RS232,Etherne	t	
Electrical specification	s				
Power supply isolation	Built-in				
Rated power	8W				
Rated voltage	DC24V				
Input range	16 ~ 32V DC				
Power down allowed	<3ms				
Insulation resistance	Over 50MΩ@5	00V DC			
Dielectric strength test	500V AC 1 min	ute			
Cable length	5 m				
Structure specification					
Shell color	Black				
Shell material	Engineering p	lastic			
Dimensions	220*156*45 m	m			
Installation	Bracket mount	ting, suspension	mounting		
Environmental specific	ations				
Operating temperature	0 ~ 50°C				
Operating humidity	10~90%RH(non-condensing	g)		
Storage temperature	-10 ~ 60℃				
Storage humidity	10~90%RH(non-condensing	g)		
shockproof test	10 ~ 500Hz (X,	Y, Z direction	2G/30 minute)		
Cooling mode	Natural air cod				
Product certification					
Degree of protection	Front panel IP6	5, overall unit IP62	2		
CE authentication		07,EN61000-6-2:			
Software					
configuration software	Kinco HMIware	V2.5			



Customized Series

Kinco MT4000R series

Embedded HMI (no front and back shell)



- R series includes 5 types: MT4043R, MT4070R, MT4070ER, MT4100R, MT4100ER;
- R series's USB slave use MicroUSB port;
- ER are the products with Ethernet port, COM1 (RS485-2W) is terminal type;
- R series use rear mounting method, which can make HMI perfectly fix with device interface and integrate with device.
- Depend on requirements, customers can design mask, which make device looks more luxurious.



Model	MT4043R	MT4070R	MT4070ER	MT4100R	MT4100ER
Performance specifica	tion				
display size	4.3" TFT	7" TFT		10.1" TFT	
resolution	480*272 pixel	800*480 pixel		1024*600 pixel	
display color	65536color	65536color		65536color	
brightness	250cd/m ²	250cd/m ²		200cd/m ²	
Backlight	LED				
Touch panel	4 line precision resista	nce network (surface	hardness 4H)		
Backlight life	50000 hours				
processor	800MHz RISC				
Memory	128MB Flash +64MB D	DR2			
Recipe memory&RTC	256KB + RTC				
Expandable memory	1 USB Host(≤16G)	1 USB Host(≤16G)		1 USB Host(≤16G)	
· ·		1SD card(≤16G only	ER support)	1SD card(≤16G only	ER support)
Print port	USB Slave/Serial port	USB Slave/Serial por	t	USB Slave/Serial po	rt
Ethernet	None	None	10/100M self-adaptive	None	10/100M self-adaptive
Program download	USB/Serial port	USB/Serial port	USB/Serial port/Ethernet	USB/Serial port	USB/Serial port/Etherne
COM port	COM0:RS485-2W/4W,RS232; COM2:RS232;	COM0:RS485-2W/4W,RS2: COM1:RS485-2W (only EF COM2:RS232;	32:	COM0:RS485-2W/4W,RS COM1:RS485-2W (only COM2:RS232;	232; ER support) ;
Electrical specification		CONE.ROESE,		COMERCESE,	
Rated power	2.4W	5W		5.5W	
Rated voltage	DC24V	DC24V		DC24V	
Input range	12 ~ 28V DC	12~28V DC		12 ~ 28V DC	
Power down allowed	<3ms	<3ms		<3ms	
Insulation resistance	Over 50MΩ@500V DC	Over 50MΩ@500V D	C	Over 50MΩ@500V	DC
Dielectric strength test	500V AC 1 minute	500V AC 1 minute		500V AC 1 minute	
Structure specification					
Shell color	-	-		Grey	
Shell material	Mental	Mental		Mental	
Dimensions	128*75*27 mm	190.4*110*30 mm		275.6*163.6*32 mm)
Cutout size	107.2*68.9 mm	166*101 mm		238*148 mm	
Weight	0.2Kg	0.3Kg		0.9Kg	
Environmental specific	ations			-	
Operating temperature	0~50℃				
Operating humidity	10~90%RH (non-con	idensing)			
Storage temperature	-10 ~ 60℃				
Storage humidity	10~90%RH (non-con	idensing)			
shockproof test	10 ~ 500Hz (X, Y, Z di	rection 2G/30 minute	e)		
Cooling mode	Natural air cooling				
Product certification					
Degree of protection	IP65(420893)				
CE authentication	EN6100-6-4:2007,EN6	1000-6-2:2005			
FCC compatibility	Complies with FCC Cla				
Software					
	Kinco HMIware V2.5				

Kinco CZ6

Design for severe environment only

- Outer shell use high thermostability, high intensity, anti-uvioresistant material ensure the best performance when HMI working in the severe environment.
- With wide range temperature LCD, working temperature can be -20°C 60°C.

configuration software Kinco DTools V3.2 and above version

- Highly shockproof performance.
- Multiple serial ports, CAN port, support CANopen/CANJ1939/serials port/RS232/RS485.
- Whole body IP65 protection.



	_	4-896-5-800
Model	CZ6	Mechanical Dimensions Unit:mm
Performance specificati	on	
Display	5.7"TFT	
Resolution	640*480 pixels	
Color	65536 color	
Brightness	700cd/m2	60.9
Backlight	LED	180.3 36.5 34.2
Backlight life	50000 hrs	
Processor	RISC Cortex-A8 800MHz	
Memory	256MB Flash + 256MB DDR3	
Recipe memory&RTC	32KB + RTC	
Expandable memory	1 USB Host	
Print port	USB/serial port	
Ethernet	None	
Program download	1*USB 2.0/Serial port	Mounting hole for wall built-up 3-M5*8
COM port	COMO:RS485,COM2:RS232 1 CANport	
Extended interface	None	1827 - 2022
Electrical specifications		
Rated power	10W	
Rated voltage	DC 24V(Isolation)	
Input range	9V ~ 36V DC	
Power down allowed	<3ms	
insulation resistance	Over 50MΩ@500V DC	
Dielectric strength test	500V AC 1 minute	
Structure specification		
Shell color	Navy blue	
Shell material	Engineering plastic	**************************************
Dimensions	180.3*133.9*70.7 mm	THE T
Cutout size	171*125mm	
Weight	1Kg	
Environmental specifica	ations	4-R1.5
Operating temperature	-20 ~ 60°C	
Operating humidity	10~90%RH (non-condensing)	Cut-out size
Storage temperature	-30 ~ 80℃	
Storage humidity	10~90%RH (non-condensing)	
shockproof test	10 ~ 500 Hz (X、Y、Z direction 2G/30 minute)	
Cooling mode	Natural air cooling	171
Product certification		
Degree of protection	IP65(whole body)	
FCC compatibility	Complies with FCC Class A	
Software		

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Customized Series

Kinco CZ10

Customized HMI-for vehicle

- RISC Cortex-A8 800MHz professional CPU.
- Larger storage space, 256MB Flash + 256MB DDR3 With two serials port expandable, support RS232/RS485/RS422.
- With two video input
- Back-lighting keyboard, easy for night operation.
- With wide range temperature LCD, working temperature can be -20°C ~ 60°C, high brightness, full-view, sunlight Readable.
 With full tem metal outer shell, with best cooling and shockproof performance,

- With isolated power supply design, suppress interference to ensure the best working performance.



Model	CZ10	Mechanical Dimens
Performance specificat	ion	
Display	10.4"TFT	
Resolution	640*480 pixel	4 <u> </u>
Color	65536 color	/ 00000000000000000000000000000000000
Brightness	500cd/m2	700 000
Backlight	LED	
Backlight life	50000 hrs	300 —
Touch panel	None	T
Funtion keys	16 keys,programmable functions can be customized	0
Processor	RISC Cortex-A8 800MHz	
Memory	256MB Flash + 256MB RAM	
Recipe memory&RTC	32KB + RTC	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Expandable memory	1 USB Host (≤16G)	
Print port	USB Host/Slave/serial port	
Program download	1*USB 2.0/Serial port	Kinco
COM port	"2*CAN,1*RS232/RS485/RS422,1*RS232(isolation) "	
Video input	2*CVBS analog signal input (BNC connector), support PAL/	4
	NTSC interface	\ 8888888888888888
Electrical specifications	S	
Power supply isolation	Built-in	
Rated power	12W	[a
Rated voltage	DC 24V	
Input range	9V ~ 36V DC	<u>†</u>
Power down allowed	<3ms	
insulation resistance	Over 50MΩ@500V DC	_ 。
Dielectric strength test	500V AC 1 minute	⊕
Structure specification		
Shell color	Brown	<u> </u>
Shell material	Aluminum alloy	
Dimensions	300*226*70 mm	
Cutout size	281*207 mm	
Weight	3.3Kg	
Environmental specific	ations	
Operating temperature	-20 ~ 70°C	Cut-out si
Operating humidity	10~90%RH (non-condensing)	
Storage temperature	-30 ~ 80℃	
Storage humidity	10~90%RH (non-condensing)	
shockproof test	IEC 68-2-6	
Cooling mode	Natural air cooling	281
Product certification		
Degree of protection	IP65(4280-93)	
CE authentication	EN6100-6-4:2007+A1:2011,EN61000-6-2:2005	
FCC compatibility	Complies with FCC Class A	
Software	,	
configuration software	Kinco DTools V3.2 and above version	
,		



mensions Unit:mm 1801180080000 / out size

Kinco F7 / F10

Whole body IP65 water-proof HMI

- Full item with IP65 water-proof.
 Bracket mounting flexible installation.
 800MHz CPU.
- High resolution(F10 with 1280*800 pixels).

- Suspension of the found of the following season o



F7



Model	F7	F10
Performance specificati	on	
Display	7"TFT	10.1"TFT
Color	640*480 pixels	
Resolution	65536 color	1280*800 pixels
Brightness	300cd/M2	250cd/m2
Backlight	LED	
Backlight life	50000 hrs	
Touch panel	4 line precision resistan	ce network (surface hardness 4H)
Processor	800MHz RISC	,
Memory	128MB Flash + 64MB RA	M
Recipe memory&RTC	512KB + RTC	
Expandable memory	1 USB Host (≤16G)	
Print port	USB Host/serial port	
Ethernet	None	
Program download	USB HOST	
COM port		OM2:PC/PLC RS232(Isolation)
Electrical specifications		OWE TO TEC ROSES (ISOIATION)
Power supply isolation	Built-in	
Rated power	5W	8W
Rated power	DC 24V	OVV
Input range	DC 18V ~ 28V	
Power down allowed	<3ms	
insulation resistance	Over 50MΩ@500V DC	
	500 VAC 1 minute	
Dielectric strength test	500 VAC 1 minute	
Structure specification	Matalana	
Shell color	Metal gray	
Shell material	Engineering plastic	
Dimensions	182*116*30 mm	250*167*28.4 mm
Cutout size	Bracket mounting	
Weight	0.57Kg	0.91Kg
Environmental specifica		
Operating temperature	0 ~ 50℃	
Operating humidity	10~90%RH (non-cond	ensing)
Storage temperature	-10 ~ 60°C	
Storage humidity	10~90%RH (non-cond	ensing)
shockproof test	10 ~ 500 Hz (X, Y, Z dire	ection 2G/30 minute)
Cooling mode	Natural air cooling	
Product certification		
Degree of protection	IP65(4280-93)	
CE authentication	EN6100-6-4:2007+A1:2	011,EN61000-6-2:2005
FCC compatibility	Complies with FCC Clas	s A
Software		
configuration software	Kinco HMIware V2.5	