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.

GREEN Serie	MT4000 Serie	Note
GH150E	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



www.en.kinco.cn Email:sales@kinco.cn

Kinco



Kinco HMI Catalog

- GREEN Series
- Customized Series



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GREEN Series Desription

GREEN Series Desription

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Customized Series

- Handheld Terminal: SZ7
- 15 Embedded HMI (no front and back shell): MT4000 Series
- Construction Machinery: CZ6/CZ10 16
- Waterproof HMI 18

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

intensity; Higher temperature resistance

Color

16770000 (24 bits) true color *15 inches remains unchanged. Kernel, version upgrades, more stable performance

Kernel

CPU

The memory DDR3 is upgraded to 128M

Memory

01

CPU, Freescale industrial class 792MHZ

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

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.

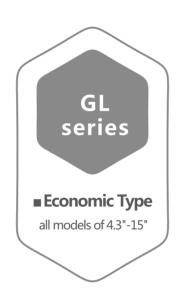
GREEN Series Contains three sub series:



- 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



- 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

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



Model	GH043*	GH043E*		
Performance specification				
Display size	4.3	3"TFT		
Display area	95.04mm(W)x53.86mm(H)			
Resolution	480*272 pixels			
display color	1677 color			
Display angle of view	70/70/50/70(le	ft/right/up/down)		
contrast ratio	5	00:1		
Backlight	I	LED		
brightness	300	cd/m2		
Backlight life	More than	30000 hours		
Touch panel	4 line precision resistance r	network (surface hardness 4H)		
CPU	ARM RISC :	32Bit 792MHz		
storage	128MB NAND Flash Mem	nory+128MB DDR3 Memory		
RTC	Built-in re	al time clock		
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		
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet		
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	ms		
Insulation resistance	Over 50MΩ	2@500V DC		
Hi-pot test	500 VAC	1 minute		
Structure specification				
Shell material	Engineer	ing plastic		
Shape size	154mm*89	9mm*60mm		
Installation hole size	146mn	n*81mm		
Weight	0.	4Kg		
Environmental specifications				
Temperature of Working		-10 ~ 55℃		
environment				
Humidity of working	10 ~ 90 % R	H (non-condensing)		
environment				
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		A1:2011,EN61000-6-2:2005		
Software				
configuration software	14: DT 1 1/2	2 and above version		

$\boldsymbol{Mechanical\ Dimensions\ (\ Unit: \ mm\)}$
37.3
154
GREEN SERIES THE C OF C O
59.8
81 Cut-out size

Kinco DTools V3.2 and above version

03

^{*} 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



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	N
Performance specification			
Display size	7'	TFT	
Display area	154.08mm(W)x85.92mm(H)		
Resolution	800*4	80 pixels	
display color	1677	7 color	
Display angle of view	70/70/50/70(let	ft/right/up/down)	
contrast ratio		00:1	
Backlight	L	.ED	
Brightness	400	cd/m2	
Backlight life	300	00 hrs	
Touch panel	4 line precision resistance n	network (surface hardness 4H)	
CPU		32Bit 792MHz	
Storage		ory+128MB DDR3 Memory	
RTC		ilt-in	
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	
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	
Communication port	,	COM1:RS232/RS485/RS422;	
communication por t		COM3:RS485;	
Serial port isolation	None	Built-in	
Electrical specifications	None	Built III	
Input power supply	DC12V~DC28V,Built-in isolation power supply		
Power waste	5W @24V DC		
Allowable loss of power	<3ms		
insulation resistance			
Hi-pot test	Over 50MΩ@500V DC 500 VAC 1 minute		
Structure specification	000 1/10	- Initiates	
Shell material	Fngineer	ing plastic	
Shape size	Engineering plastic 207mm*125mm*46mm		
Installation hole size	194mm*113mm		
Weight	0.6Kg		
Environmental specifications	0.0	okg	
Temperature of Working	10		
environment	-10 ~	- 33 C	
Humidity of working	10 00 % DII (n	an condensing)	
,	10 ~ 90 % RH (n	on-condensing)	
environment Storage environment	20	60%	
Storage environment	-20 ^	- 60℃	
temperature	10 000/ PH /		
Storage environment humidity		on-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+	A1:2011,EN61000-6-2:2005	
Software			
configuration software	Kinco DTools V3	.2 and above version	

	Mechanical Dimensions (Unit : mm)
	106.2 192.8
Ⅎ)	QUEEN SERIES ONEEN SERIES WHO WINCO
n et 2;	41_5
	106.2
	Cut-out size

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

GH Series 10.4''

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 : mm)
Performance specification		
Display size	10.4"TFT	
Display area	211.20mm(W)x158.40mm(H)	310
Resolution	800*600 pixel	
display color	1677 color	
Display angle of view	70/70/60/70(left/right/up/down)	
contrast ratio	500:1	- S30
Backlight	LED	
Brightness	350cd/m2	
Backlight life	30000 hrs	
Touch panel	4 line precision resistance network (surface hardness 4H)	<u> </u>
CPU	ARM RISC 32Bit 792MHz	
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in	
Extensible memory	1 USB Host + 1 SD Card	4 ~
Print port	USB Host/serial port	1.4.11
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		
Electrical specifications	Built-in	ŏ =
Input power supply	DC12V ~ DC28V,Built-in isolation power supply	
Power waste	TBD	
Allowable loss of power	<3ms	
insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specification	300 VAC I IIIII die	
Shell material	Engineering plastic	
Shape size	310mm*230mm*56mm	
Installation hole size	299mm*219mm	
Weight	79911111 219111111	
Environmental specifications	IBU	Cut-out size 6
Temperature of Working	10 55°C	
environment	-10 ~ 55 ℃	
Humidity of working	10 000/ DIL (non condensing)	
environment	10 ~ 90 % RH (non-condensing)	
Storage environment	-20 ~ 60°C	299
temperature	-20 ~ 60 C	
Storage environment humidity	10 ~ 90 % RH (non-condensing)	
Anti-seismic degree		
Cooling mode	10 ~ 500Hz (X、Y、Z direction 2G/30 minute) Natural air cooling	
	ivaturai air cooiing	
Product certification Panel protection grade	Conforming to IDCFtifiti(4200 02)	
CE authentication	Conforming to IP65 certification(4208—93)	
	EN6100-6-4:2007,EN61000-6-2:2005	
Software software	Vince DTeels V2 2 1	
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.

Standard Type

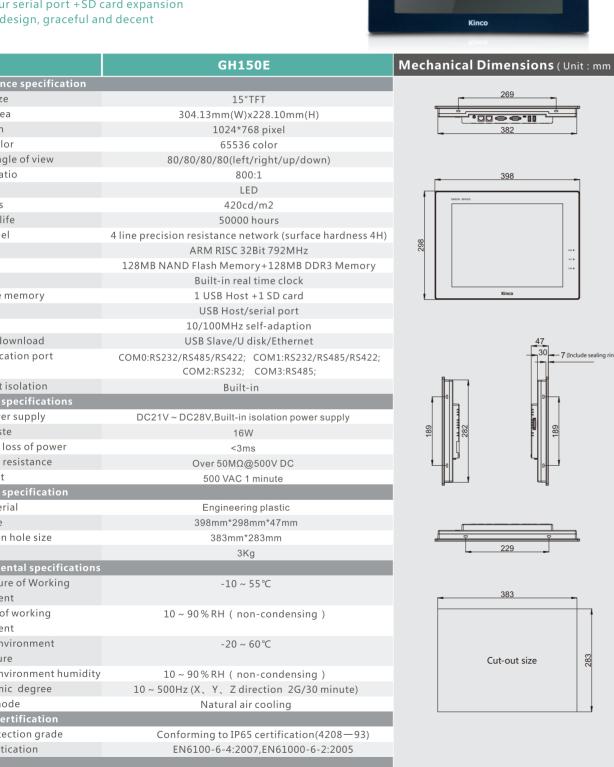


GH150E

- •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



	_	Kinco
Model	GH150E	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	GREEN SERVES
Backlight life	50000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	
CPU	ARM RISC 32Bit 792MHz	
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	n.
RTC	Built-in real time clock	
Extensible memory	1 USB Host +1 SD card	Kinco
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 sealing ri
Serial port isolation	Built-in	
Electrical specifications		
Input power supply	DC21V ~ DC28V,Built-in isolation power supply	
Power waste	16W	88
Allowable loss of power	<3ms	
insulation resistance	Over 50MΩ@500V DC	<u> </u>
Hi-pot test	500 VAC 1 minute	
Structure specification		
Shell material	Engineering plastic	
Shape size	398mm*298mm*47mm	
Installation hole size	383mm*283mm	
Weight	3Kg	229
Environmental specifications	- 3	
Temperature of Working	-10 ~ 55℃	
environment		383
Humidity of working	10 ~ 90 % RH (non-condensing)	
environment	10 30 % W (How condensing)	
Storage environment	-20 ~ 60°C	
temperature	20 00 0	Cut-out size
Storage environment humidity	10 ~ 90 % RH (non-condensing)	Cut-out size
Anti-seismic degree	10 ~ 500Hz (X, Y, Z direction 2G/30 minute)	
Cooling mode	Natural air cooling	
Product certification	Natural all Cooling	
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN6100-6-4:2007,EN61000-6-2:2005	
Software	E140100 0 1.2007,E1401000 0 2.2003	
configuration software	Vince 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)

Kinco DTools V3.2 and above version

G Series

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 Dimensions (Unit : mm)
Performance specification				
Display size	7″TFT			158.5
Display area	154.08mm(W)x85.92mm(H)			
Resolution	800*480 pixel		el	
display color		1677 coloi		165
Display angle of view	7	0/70/60/70(left/right/uj	o/down) RDH10	189.72
contrast ratio		500:1		204
Backlight	LED			
Brightness	400cd/m2			
Backlight life	More than 30000 hours			
Touch panel	4 line pre	cision resistance networ	k (surface hardness 4H)	
CPU		ARM RISC 32Bit 7		120
Storage	128MB	NAND Flash Memory+1	28MB DDR3 Memory	
RTC		Built-in	,	
Extensible memory		1 USB Hos	t	
Print port		USB Host/seria	l port	34.2
Ethernet	None	10/100MHz self-adaption	10/100MHz self-adaption	4.5 6.5(Include sealing ring
Bus interface	None	None	1*CANopen	
Program download	USB Slave	USB Slave	USB Slave	
3	/U disk	/U disk/Ethernet	/U disk/Ethernet	
Communication port		COM0:RS232/RS4	85/RS422:	
,		COM1:RS485;CON		135.72
Electrical specifications				
Input power supply	DC12	V ~ DC28V,Built-in isolat	ion nower supply	╵╶╫┚╠╨╌╵│ ┖╣╟╫╌╵
Power waste	TBD		ion power supply	
Allowable loss of power		<3ms		135
insulation resistance		Over 50MΩ@500	V DC	
Hi-pot test		500 VAC 1 minute		
Structure specification		300 VAC I IIIIII	110	-9-
Shell material		Engineering plas	tic	41
Shape size		204mm*150mm*34		
Installation hole size		192mm*138mm		
Weight		0.5Kg		
Environmental specifications		0.5Kg		
Temperature of Working		0 ~ 50℃		
environment		0 ~ 30 C		
Humidity of working		10 ~ 90%RH (non-cond	longing)	
environment		10 ~ 90%KH (non-cond	iensing)	192
Storage environment		20 (0%)		
temperature		-20 ~ 60°℃		
Storage environment humidity		10 000/ DIL /	I i \	
Anti-seismic degree		10 ~ 90% RH (non-cond	9	m
Cooling mode	10 ~ 500Hz (X、Y、Z direction 2G/30 minute)			Cut-out size
Product certification	Natural air cooling			
	C	nforming to IDCE acutific	ation(4209 _ 02)	
Panel protection grade CE authentication		nforming to IP65 certific		
		EN6100-6-4:2007,EN610	JUU-0-2:2UU5	
Software				

configuration software Kinco DTools V3.2 and above version

Economy Type



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	480*272	pixels	
display color	1677 c	olor	
Display angle of view	70/70/50/70(left/	right/up/down)	
contrast ratio	500:	:1	
Backlight	LEC		
Brightness	450cd,	/m2	
Backlight life	30000	hrs	
Touch panel	4 line precision resistance net	work (surface hardness 4H)	
CPU	ARM RISC 32E	Bit 792MHz	
Storage	128MB NAND Flash Memor	y+128MB DDR3 Memory	
RTC	Built-in real	time clock	
Extensible memory	Non	ne	
Print port	Series	port	
Ethernet	None	10/100MHz self-adaption	
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422;		
	COM2:R		
Electrical specifications			
Input 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 r	minute	
Structure specification			
Shell material	Engineering plastic		
Shape size	132mm*102m	nm*33mm	
Installation hole size	119mm*9	93mm	
Weight	0.21K	(g	
Environmental specifications			
Temperature of Working	0 ~ 50	°C	
environment			
Humidity of working	10~90%RH (non-	-condensing)	
environment			
Storage environment	-20 ~ 6	0°C	
temperature			
Storage environment humidity	10~90%RH (non-	-condensing)	
Anti-seismic degree	10 ~ 500Hz (X、Y、Z dire		
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	

	Mechanical Dimensions (Unit : mm)
	117.5
	132
H)	CO CREEN SERIES Kinco
on	5.7(Include sealing ring)
	51.6
	S S S S S S S S S S S S S S S S S S S
	119
	පි Cut-out size

* 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



			Kinco
Model	GL070	GL070E	Mechanical Dimensions (U
Performance specification			
Display size	7"	TFT	
Display area	154.08mm(W		
Resolution	800*480 pixel		165
Display color	1677	7 color	189.72
Display angle of view	70/70/50/70(lef	ft/right/up/down)	204
Contrast ratio		00:1	
Backlight	L	ED	GREEN SERIES
brightness	250	cd/m2	
Backlight life	300	00 hrs	
Touch panel	4 line precision resistance n	etwork (surface hardness 4H)	120
CPU	ARM RISC 3	32Bit 792MHz	
Storage	128MB NAND Flash Mem	ory+128MB DDR3 Memory	
RTC	Bu	ilt-in	Kinco
Extensible memory	1 US	B Host	
Print port	USB Host	/serial port	34.2
Ethernet	None	10/100MHz self-adaption	6.5(Inc
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	
Communication port		?/RS485/RS422; 2:RS232;	
Electrical specifications			89.97
Input power supply	DC10V ~		
Power waste	3.6W @		
Allowable loss of power	<3		
insulation resistance	Over 50MΩ@500V DC		u u
Hi-pot test	500 VAC 1 minute		
Structure specification			
Shell material	Engineeri	ing plastic	
Shape size	204mm*150mm*34mm		
Installation hole size	192mm	*138mm	
Weight		5Kg	
Environmental specifications			
Temperature of Working	0 ~	50℃	
environment			COMMODES 1989 1998 Shemat COSMICINI LIRESOUT
Humidity of working	10~90%RH (no	on-condensing)	
environment			
Storage environment temperature	-20 ~	- 60℃	192
Storage environment humidity	10~90%RH (no	on-condensing)	
Anti-seismic degree	10 ~ 500Hz (X、Y、Z di	irection 2G/30 minute)	
Cooling mode	Natural a	ir cooling	∞ Cut-out size
Product certification			201 301 312
Panel protection grade	Conforming to IP6	55 certification(4208—93)	
CE authentication	EN6100-6-4:20	007,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)

GL Series

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	Mechanical Dimensions
Performance specification			
Display size	10	.1"TFT	0 0
Display area	222.72mm(V	V)x125.28mm(H)	
Resolution	1024*	600 pixels	258.9
Display color	167	77 color	
Display angle of view	70/70/60/70(le	eft/right/up/down)	280.3
Contrast ratio	5	500:1	
Backlight		LED	GREEN SERIES
Brightness	400	Ocd/m2	
Backlight life	More than	n 30000 hours	193.3
Touch panel	4 line precision resistance	network (surface hardness 4H)	100
CPU	ARM RISC	32Bit 792MHz	
storage	128MB NAND Flash Mer	nory+128MB DDR3 Memory	Kinco
RTC	Built-in re	eal time clock	
Extensible memory	1 U	SB Host	
Print port	USB Hos	t/serial port	
Ethernet	None	10/100MHz self-adaption	
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	I
Communication port	COM0:RS23	2/RS485/RS422;	
		12:RS232;	6.
Electrical specifications			177
Input power supply	DC10V	~ DC28V	
Power waste	6W @		
Allowable loss of power	<3ms		•
insulation resistance	Over 50MΩ@500V DC		
Hi-pot test	500 VAC 1 minute		
Structure specification			4
Shell material	Enginee	ring plastic	
Shape size	280mm*19	93mm*36mm	6 0
Installation hole size	261mn	n*180mm	
Weight	0	.9Kg	
Environmental specifications			
Temperature of Working	0 ~	50℃	
environment			
Humidity of working	10~90%RH(r	ion-condensing)	
environment		_	
Storage environment	-20	~ 60°C	261
temperature			
Storage environment humidity	10~90%RH (r	ion-condensing)	†
Anti-seismic degree	10 ~ 500Hz (X、Y、Z o	direction 2G/30 minute)	
Cooling mode	Natural	air cooling	Cut-out size
Product certification			Cut-out size
Panel protection grade	Conforming to IP	65 certification(4208—93)	
CE authentication	EN6100-6-4:200	72011,EN61000-6-2:2005	
Software			
configuration software	Kinco DTools V	3.2 and above version	

	Mechanical Dimensions (Unit:mm)
	258.9
	280.3
1H) /	(5) (6) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9
t	35.5 5.5
	261
	€ Cut-out size

* remark: GH100 can replace MT4532T; GH100E can replace MT4532TE.
(Old version projects can be simulated in DTools and download to Green series's HMI)

GL Series

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 Dimensions (Unit : mm
Performance specification		
Display size	10.4"TFT	
Display area	211.20mm(W)x158.40mm(H)	310
Resolution	800*600 pixel	
Display color	1677 color	
Display angle of view	70/70/60/70(left/right/up/down)	
Contrast ratio	500:1	
Backlight	LED	
Brightness	350cd/m2	
Backlight life	30000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	, c
CPU	ARM RISC 32Bit 792 MHz	
storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in real time clock	
Extensible memory	1 USB Host	4 2
Print port	USB Host/serial port	1 4 11 2
Ethernet	10/100MHz self-adaption	
Program download	USB Slave/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422;	
	COM2:RS232;	[P000000000000000000000000000000000000
Electrical specifications		0
Input power supply	DC21V ~ DC28V,Built-in isolation power supply	
Power waste	TBD	
Allowable loss of power	<3ms	
insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specification		
Shell material	Engineering plastic	
Shape size	310mm*230mm*56mm	
Installation hole size	299mm*219mm	
Weight	TBD	
Environmental specifications		
Temperature of Working	0 ~ 50°C	Cut-out size $\frac{6}{2}$
environment		
Humidity of working	10~90%RH (non-condensing)	
environment		
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.



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
Performance specification	
Display size	15"TFT
Display area	304.13mm(W)x228.10mm(H)
Resolution	1024*768 pixel
Display color	65536 color
Display angle of view	80/80/80/80(left/right/up/down)
Contrast ratio	800:1
Backlight	LED
Brightness	420cd/m2
Backlight life	50000 hours
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 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
Communication port	COM0:RS232/RS485/RS422; COM2:RS232;;
Electrical specifications	
input power supply	DC21V ~ DC28V
Power waste	16W@24V DC
Allowable loss of power	<3ms
insulation resistance	Over 50MΩ@500V DC
Hi-pot test	500 VAC 1 minute
Structure specification	
Shell material	Engineering plastic
Shape size	398mm*298mm*47mm
Installation hole size	383mm*283mm
Weight	3Kg
Environmental specifications	
Temperature of Working environment	-10 ~ 55°C
Humidity of working environment	10~90%RH (non-condensing)
Storage environment temperature	-20 ~ 60°C
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
John garacion Jortware	Kilico Diodis v 3.2 alia above version

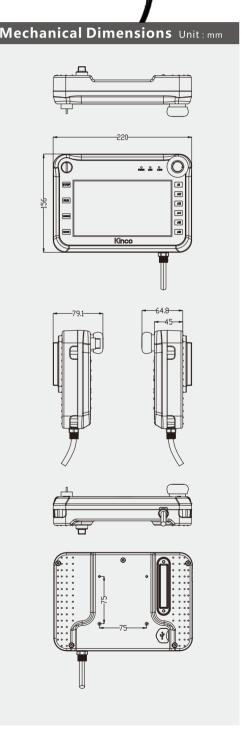
nical Dimensions (Unit : mm) Cut-out size

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.



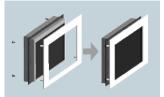
Model	SZ7	SZ7S	SZ7E	SZ7ES
Performance specifica	tion			
Display size	7"TFT			
Resolution	800*480 pixel	s		
Display color	65536 color	3		
Brightness	250cd/m2			
Backlight	LED			
Touch panel		n resistance ne	twork (surface	hardness 4H)
Backlight life	50000 hours	in resistance ne	twork (surface	, maraness 4m
programable button	1		10	
programable LED	2		2	
. •	1		1	
Emergency button Selection Switch	1		1	
		1	_	1
Dead-man switch	None	1	None	1
processor	800MHz RISC 128MB Flash -	CAMP DAM		
Memory		+64IMB KAIM		
Recipe memory&RTC	256KB + RTC			
Expandable memory	1 USB Host			
Series port	1*RS485-2,RS	232	Rs232	
Ethernet	None			M self-adaptive
Program download	RS232,USB Ho			Host,Ethernet
COM port	RS485-2,RS23	32	RS232,Ethei	rnet
Electrical specification				
Power supply isolation	Built-in			
Rated power	8W			
Rated voltage	DC24V			
Input range	16 ~ 32V DC			
Power down allowed	<3ms			
Insulation resistance	Over 50MΩ@	500V DC		
Dielectric strength test	500V AC 1 mir	nute		
Cable length	5 m			
Structure specification				
Shell color	Black			
Shell material	Engineering p	lastic		
Dimensions	220*156*45 m	nm		
Installation	Bracket moun	ting, suspensio	n mounting	
Environmental specific	cations			
Operating temperature	0 ~ 50℃			
Operating humidity	10~90%RH(non-condensin	ıg)	
Storage temperature	-10 ~ 60℃			
Storage humidity	10~90%RH(non-condensin	ig)	
shockproof test		, Y, Z direction		te)
Cooling mode	Natural air co			
Product certification				
Degree of protection	Front panel IP6	5,overall unit IP6	2	
CE authentication		007,EN61000-6-2		
Software		,22.000 0 2		
configuration software	Kinco HMIware	V2 5		
coiigaration sortware				



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/m²	250cd/m ²		200cd/m ²	
Backlight	LED		1		
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		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;	
Electrical specification		COIVIZ.NG252,	_	COIVIZ.RS252,	_
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 [)C	Over 50MΩ@500V	DC
Dielectric strength test		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	1
Cutout size	107.2*68.9 mm	166*101 mm		238*148 mm	
Weight	0.2Kg	0.3Kg		0.9Kg	
Environmental specific					
Operating temperature					
Operating humidity	10~90%RH (non-cor	ndensina)			
Storage temperature	-10 ~ 60°C	,			
Storage humidity	10 ~ 90%RH (non-cor	ndensing)			
shockproof test	10~500Hz (X, Y, Z d	J .	2)		
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					
configuration software	Kinco HMIware V2 5				
- I garation software					

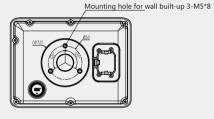
Kinco CZ6

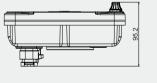
Design for severe environment only

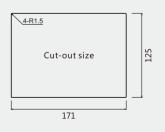
- $\hbox{-} Outer shell use high thermostability, high intensity, anti-uvior esist ant material \\$ ensure the best performance when HMI working in the severe environment.
- With wide range temperature LCD, working temperature can be -20℃ 60℃.
- Highly shockproof performance.
- Multiple serial ports, CAN port, support CANopen/CANJ1939/serials port/RS232/RS485.
- Whole body IP65 protection.



Model	CZ6	N
Performance specificat	ion	
Display	5.7"TFT	
Resolution	640*480 pixels	
Color	65536 color	
Brightness	700cd/m2	
Backlight	LED	
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	
COM port	COMO:RS485,COM2:RS232 1 CANport	
Extended interface	None	
Electrical specifications	5	
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	
Cutout size	171*125mm	
Weight	1Kg	
Environmental specific	ations	
Operating temperature	-20 ~ 60℃	
Operating humidity	10~90%RH (non-condensing)	
Storage temperature	-30 ~ 80℃	
Storage humidity	10~90%RH (non-condensing)	
shockproof test	10 ~ 500Hz (X、Y、Z direction 2G/30 minute)	
Cooling mode	Natural air cooling	
Product certification		
Degree of protection	IP65(whole body)	
FCC compatibility	Complies with FCC Class A	
Software		
configuration software	Kinco DTools V3.2 and above version	







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 item metal outer shell with best cooling and shockproof performance.
- With full item 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 Dimensions U
Performance specificat	ion	
Display	10.4"TFT	
Resolution	640*480 pixel	
Color	65536 color	
Brightness	500cd/m2	
Backlight	LED	
Backlight life	50000 hrs	300
Touch panel	None	
Funtion keys	16 keys, programmable functions can be customized	F
Processor	RISC Cortex-A8 800MHz	226 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Memory	256MB Flash + 256MB RAM	
Recipe memory&RTC	32KB + RTC	226 - 226 - 8
Expandable memory	1 USB Host (≤16G)	F5 F5
Print port	USB Host/Slave/serial port	(B)
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/	
	NTSC interface	
Electrical specifications	;	
Power supply isolation	Built-in	
Rated power	12W	[6
Rated voltage	DC 24V	
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	Brown	
Shell material	Aluminum alloy	
Dimensions	300*226*70 mm	
Cutout size	281*207 mm	
Weight	3.3Kg	
Environmental specification	ations	
Operating temperature	-20 ~ 70℃	Cut-out size
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	

70.3

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).
 Use pen-drive to up/download program easy to use.
- With isolated power supply, suppress interference to ensure the best working performance.





Kinco	Kinco	
NICO	Kinco	
F7	F10	
	Machanical Dimonsions	

Model	F7	F10	Med
Performance specificati		110	- Wed
Display	7"TFT	10.1"TFT	•
Color	640*480 pixels	10.1 111	
Resolution	65536 color	1280*800 pixels	
Brightness	300cd/M2	250cd/m2	Г
Backlight	LED	23000/1112	H
Backlight life	50000 hrs		
Touch panel		ce network (surface hardness 4H)	111
Processor	800MHz RISC	ce network (surface naturess 411)	
Memory	128MB Flash + 64MB RA	\M	
Recipe memory&RTC	512KB + RTC	NIVI	
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			1
Power supply isolation	Built-in		
Rated power	5W	8W	
Rated voltage	DC 24V		
Input range	DC 18V ~ 28V		
Power down allowed	<3ms		
insulation resistance	Over $50M\Omega@500V$ DC		
Dielectric strength test	500 VAC 1 minute		28.4
Structure specification			
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	Шν
Environmental specifica			
Operating temperature	0 ~ 50℃		
Operating humidity	10~90%RH (non-cond	lensing)	
Storage temperature	-10 ~ 60°C		
Storage humidity	10~90%RH (non-cond	lensing)	
shockproof test	10 ~ 500Hz (X, Y, Z dir	•	
Cooling mode	Natural air cooling	ection 2d/30 minute/	
Product certification	Natural all cooling		
Degree of protection	IP65(4280-93)		
CE authentication	, ,	011 EN61000 6 2:200E	
	EN6100-6-4:2007+A1:2	,	
FCC compatibility	Complies with FCC Class	3 A	
Software software	Kinco HMIware V2.5		
configuration software	KIIICO HIVIIWare V2.5		