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 cutout size
GH070E	MT4424TE	Same cutout size
GH070	MT4404T	Same cutout size
GH043	MT4210T	Same cutout size
GH043E	MT4220TE	Same cutout size
G070	MT4414T	Same cutout size
G070E	MT4414TE	Same cutout size
G070E-CAN	MT4414TE-CAN	Same cutout size
GL150E		15" Economic type
GL104E	MT4513TE	Same cutout size
GL100E	MT4532TE	Same cutout size
GL100	MT4532T	Same cutout size
GL070E	MT4434TE	Same cutout size
GL070	MT4434T	Same cutout size
GL043E	MT4230TE	Same cutout size
GI043	MT4230T	Same cutout 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

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Kinco



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

intensity; Higher temperature resistance 16.7M (24 bits) true color *15 inches remains unchanged

Color

Kernel

Kernel, version upgrades, more stable performance CPU

CPU Freescale industrial class 792MHZ

J Memory

The memory DDR3 is upgraded to 128M

01

^{*} 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	"TFT	
Display area	95.04mm(W)x53.86mm(H)		
Resolution	480*272 pixels		
Display color	16.71	M color	
Display angle of view	70/70/50/70(lef	ft/right/up/down)	
Contrast ratio	50	00:1	
Backlight	L	ED	
rightness	300	cd/m²	
Backlight life	More than	30000 hours	
ouch panel	4 line precision resistance n	etwork (surface hardness 4H)	
CPU	ARM RISC 3	32Bit 792MHz	
Storage		ory+128MB DDR3 Memory	
RTC		ilt-in	
Extensible memory	USB Host	1 USB Host + 1 SD Card	
Print port	USB Host/serial port	USB Host/serial port	
thernet	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;	
communication port	COM2:RS232	COM0.R3232/R3463/R3422,	
Serial port isolation	None	None	
lectrical specifications			
nput power supply	DC12V ~ DC28V,Built-in	isolation power supply	
ated power	3.5W @	24V DC	
Illowable loss of power	<3	ms	
nsulation resistance	Over 50MΩ	@500V DC	
li-pot test	500 VAC 1 minute		
tructure specifications			
Shell material	Engineer	ing plastic	
hape size	154mm*89	mm*60mm	
Cutout size	146mm	n*81mm	
Veight	0.4	1Kg	
invironmental specifications			
emperature of working		-10 ~ 55℃	
environment			
Humidity of working	10 ~ 90 % RI	H (non-condensing)	
environment		3 ,	
Storage environment		-20 ~ 60 ℃	
emperature			
torage environment humidity	10 ~ 90 % RI	H (non-condensing)	
ine vibration test		n/s², X, Y, Z direction/hour	
Cooling mode		ural air cooling	
Product certification	ivati		
Panel protection grade	Conforming to IP6	55 certification(4208—93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005		
oftware		, , , , , , , , , , , , , , , , , , , ,	
Configuration software	Kinco DTools V3	.2 and above version	
Jingaration Joitware	Killed D10013 V3	.2 4114 450 (6 (6131011	

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

^{*} 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



GH070	GH070E	M	
7	"TFT		
154.08mm(V	V)x85.92mm(H)		
800*4	80 pixels		
16.7	M color		
70/70/50/70(le	ft/right/up/down)		
	LED		
400	Ocd/m²		
	·		
	·		
None	Built-In		
DC12V DC28V Built in	visalation nower supply		
	1 11 /		
	O .		
500 VAC	i minute		
Fraince	in a plantin		
	6Kg		
-10	~ 55℃		
10 ~ 90 % RH (r	ion-condensing)		
-20	~ 60℃		
10 ~ 500Hz, 30m/s ² ,	X, Y, Z direction/hour		
Natural	air cooling		
Conforming to IP	65 certification(4208—93)		
3			
EN61000-6-4:2007+	+A1:2011, EN61000-6-2:2005		
EN61000-6-4:2007+	+A1:2011, EN61000-6-2:2005		
	7 154.08mm(v 800*4 16.7 70/70/50/70(le 5 400 More than 4 line precision resistance of ARM RISC 128MB NAND Flash Mem But 1 USB Host USB Host/serial port None USB Slave/U disk COM0:RS232/RS485/RS422 COM2:RS232 None DC12V~DC28V,Built-in 5W @ <3 Over 50Mg 500 VAC Engineer 207mm*12 194mm 0 -10 10 ~ 90 % RH (r	7°TFT 154.08mm(W)x85.92mm(H) 800*480 pixels 16.7M color 70/70/50/70(left/right/up/down) 500:1 LED 400cd/m² More than 30000 hours 4 line precision resistance network (surface hardness 4H) ARM RISC 32Bit 792MHz 128MB NAND Flash Memory+128MB DDR3 Memory Built-in 1 USB Host 1 USB Host 1 USB Host + 1 SD Card USB Host/serial port None USB Slave/U disk COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422; COM2:RS232; COM3:RS485 None Built-in DC12V~DC28V,Built-in isolation power supply 5W @24V DC <3ms Over 50MΩ@500V DC 500 VAC 1 minute Engineering plastic 207mm*125mm*41mm 194mm*113mm 0.6Kg -10 ~ 55°C 10 ~ 90 % RH (non-condensing) -20 ~ 60°C 10 ~ 90 % RH (non-condensing) 10 ~ 500Hz, 30m/s², X, Y, Z direction/hour Natural air cooling	

	Mechanical Dimensions (Unit : mm)
	106.2 192.8
	206.9
H)	Kinco
n et	5-1-
2;	
	106.2
	194
5	Cut-out size

* Remarks: 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 : r
Performance specification		
Display size	10.4"TFT	
Display area	211.20mm(W)x158.40mm(H)	310
Resolution	800*600 pixel	
Display color	16.7M color	
Display angle of view	70/70/60/70(left/right/up/down)	
Contrast ratio	500:1	
Backlight	LED	
Brightness	350cd/m ²	
Backlight life	More than 30000 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	(**************************************
Extensible memory	1 USB Host + 1 SD Card	42
Print port	USB Host/serial port	1 9 11 5
Ethernet	10/100MHz self-adaption	
Program download	USB Slave/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422; COM1: RS232/RS485/RS422;	
communication port	COM1: RS232/RS463/RS422, COM1: RS232/RS463/RS422,	
Serial port isolation	Built-in	
Electrical specifications	Built-III	o —
nput power supply	DC12V ~ DC28V,Built-in isolation power supply	
Rated power	8W	
Allowable loss of power	<3ms	
Insulation resistance	Ver 50MΩ@500V DC	
	500 VAC 1 minute	
Hi-pot test	300 VAC 1 minute	
Structure specifications		
Shell material	Engineering plastic	
Shape size	310mm*230mm*56mm	
Cutout size	299mm*219mm	
Weight	1.715Kg	Cut-out size □ □
Environmental specifications		Cut-out size $^{\circ}_{\sim}$
Temperature of working	-10 ~ 55 ℃	
environment		
Humidity of working	10 ~ 90 % RH (non-condensing)	
environment		299
Storage environment	-20 ~ 60°C	
temperature		
Storage environment humidity	10 ~ 90 % RH (non-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s ² , X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN61000-6-4:2007+A1:2011, 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.



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 :
Performance specification		
Display size	15"TFT	269
Display area	304.13mm(W)x228.10mm(H)	
Resolution	1024*768 pixel	382
Display color	65536 colors	
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)	ω
CPU	ARM RISC 32Bit 792MHz	75
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in	
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 se
Serial port isolation	Built-in	
Electrical specifications		
Input power supply	DC21V ~ DC28V,Built-in isolation power supply	
Rated power	16W	189
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	<u> </u>
Hi-pot test	500 VAC 1 minute	
Structure specifications		
Shell material	Engineering plastic	
Shape size	398mm*298mm*47mm	
Cutout size	383mm*283mm	
Weight	3Kg	229
Environmental specifications		
Temperature of working	-10 ~ 55°C	
environment		383
Humidity of working	10 ~ 90 % RH (non-condensing)	
environment		
Storage environment	-20 ~ 60°C	
temperature		Cut-out size
Storage environment humidity	10 ~ 90 % RH (non-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s ² , X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		
C (:	10' DT 1 100 0 1 1 1 1 1	

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)x85.9	92mm(H)	
Resolution		800*480 pix	` ,	
Display color		16.7M colo		165
Display angle of view	7	0/70/60/70(left/right/uj		189.72
Contrast ratio		500:1	,	204
Backlight		LED		
Brightness		400cd/m ²		
Backlight life		More than 30000		
Touch panel	4 line nre	cision resistance networ		
CPU	i iiiie pre	ARM RISC 32Bit 7		150
Storage	128MR	NAND Flash Memory+1		
RTC	IZOIVID	Built-in	ZOWID DDRS WEITIOTY	
Extensible memory		1 USB Hos		
Print port				34.2
Ethernet	None	USB Host/seria		4.5 6.5(Include sealing ring
Bus interface	None	10/100MHz self-adaption	10/100MHz self-adaption	
	None	None	1*CANopen	
Program download	USB Slave /U disk	USB Slave /U disk/Ethernet	USB Slave /U disk/Ethernet	
Communication port		COM0:RS232/RS48	85/RS422;	135.72
		COM1:RS485;CON	И2:RS232	
Electrical specifications				▋ <u>┊</u> ╫╖║╢┆╎┈┈╢╟╖╫┷
Input power supply	DC12	V ~ DC28V,Built-in isolat	ion power supply	
Rated power		3.8W		405
Allowable loss of power		<3ms		135
Insulation resistance		Over 50MΩ@500	V DC	
Hi-pot test		500 VAC 1 minu	ıte	
Structure specifications				5
Shell material		Engineering plas	tic	
Shape size		204mm*150mm*34	·mm	 ●
Cutout size		192mm*138mm	1	
Weight		0.5Kg		
Environmental specifications				
Temperature of working		0 ~ 50℃		
environment				COMMONS NOT AND MANA COMMON LINEOF
Humidity of working		10 ~ 90%RH (non-cond	lensina)	
environment		20 3070111 (11011 00110	iensing /	192
Storage environment		-20 ~ 60℃		
temperature		20 * 00 C		1
Storage environment humidity		10 ~ 90%RH (non-cond	loncing)	
Sine vibration test		500Hz, 30m/s ² , X, Y, Z d		80
Cooling mode	10 ~	Natural air coolii		Cut-out size
Product certification		ivatural air coolli	19	
Panel protection grade	Car	oforming to IDSE cortific	ation(4208 = 02)	
CE authentication	Conforming to IP65 certification(4208—93) EN61000-6-4:2007+A1:2011, EN61000-6-2:2005		,	
Software	EIND1(JUU-0-4.2UU/+A1:2U11,	EINOTOOO-0-2:2005	
STOTELWASTICE				

Configuration software

Kinco DTools V3.2 and above version

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

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

Economy Type



GL043/GL043E

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



Model	GL043	GL043E	М
Performance specification			
Display size	4.3	"TFT	
Display area	95.04mm(W)x53.86mm(H)	
Resolution	480*2	72 pixels	
Display color	16.71	M color	
Display angle of view	70/70/50/70(le	ft/right/up/down)	
Contrast ratio	5	00:1	
Backlight	l	.ED	
Brightness	450	cd/m²	
Backlight life	More than	30000 hours	
Touch panel	4 line precision resistance r	etwork (surface hardness 4H)	
CPU	ARM RISC 3	32Bit 792MHz	
Storage	128MB NAND Flash Mem	ory+128MB DDR3 Memory	
RTC	Bu	ilt-in	
Extensible memory	N	one	
Print port	Seri	al port	
Ethernet	None	10/100MHz self-adaption	
Program download	USB Slave/Serial port	USB Slave/Serial port/Ethernet	
Communication port	COM0:RS232	2/RS485/RS422;	
	COM	2:RS232	
Electrical specifications			
Input power supply	DC10V	DC28V	
Rated power	2W @ 2	24V DC	
Allowable loss of power	<3	ms	
Insulation resistance	Over 50MΩ	@500V DC	
Hi-pot test	500 VAC	1 minute	
Structure specifications			
Shell material	Engineer	ing plastic	
Shape size	132mm*10	2mm*33mm	
Cutout size	119mn	n*93mm	
Weight	0.2	1Kg	
Environmental specifications			
Temperature of working	0 ~	50℃	
environment			
Humidity of working	10~90%RH (no	on-condensing)	
environment			
Storage environment	-20 -	~ 60℃	
temperature			
Storage environment humidity	10~90%RH (no	on-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s ² ,	X, Y, Z direction/hour	
Cooling mode	Natural a	ir cooling	
Product certification			
Panel protection grade	5	55 certification(4208—93)	
CE authentication	EN61000-6-4:2007+	A1:2011, EN61000-6-2:2005	
Software			
Configuration software	Kinco DTools V3	.2 and above version	

	Mechanical Dimensions (Unit : mm)
	117.5
	1
	132
	GREN SERIES
1)	102
	Kinco
	22
	5.7(Include sealing ring)
et	
	16 216
	(e
	dadadada
	00000000
	© Tritty → AB COMMICCOME
	119
	1
	Cut-out size

GL043E	Mechanical Dimensions (Unit : mm)
86mm(H) kels or	117.5
ht/up/down) 2 0 hours ork (surface hardness 4H) 792MHz 128MB DDR3 Memory	GREEN SERVES Klinco
rt /100MHz self-adaption Slave/Serial port/Ethernet 85/RS422; 32 8V C	5.7(Include sealing ring
OV DC nute	
*33mm nm	
ondensing)	© COMMONS
ondensing) Z direction/hour poling rtification(4208—93) D11, EN61000-6-2:2005	S Cut-out size

GL070/GL070E

GL Series

- 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 (Unit
Performance specification			
Display size	7"7	ΓFT	
Display area	154.08mm(W)		
Resolution		30 pixel	165
Display color		l color	189.72
Display angle of view	70/70/50/70(left	204	
Contrast ratio		0:1	
Backlight	LE	D	GREEN SERIES
Brightness	250c	d/m²	
Backlight life	More than 3		
Touch panel	4 line precision resistance ne	etwork (surface hardness 4H)	120
CPU	•	2Bit 792MHz	
Storage	128MB NAND Flash Memo	ory+128MB DDR3 Memory	
RTC		lt-in	Kinco
Extensible memory		3 Host	
Print port	USB Host/	serial port	34.2
Ethernet		10/100MHz self-adaption	6.5(Include s
Program download		USB Slave/U disk/Ethernet	
Communication port		/RS485/RS422;	
		:RS232	
Electrical specifications			89.97
Input power supply	DC10V ~	DC28V	
Rated power	3.6W @2	24V DC	
Allowable loss of power	<3m	ns	
nsulation resistance	Over 50MΩ(@500V DC	u u
Hi-pot test	500 VAC 1 minute		
Structure specifications			
Shell material	Engineerir	ng plastic	
Shape size	204mm*150	mm*34mm	
Cutout size	192mm*	138mm	
Veight	0.5	Kg	
Environmental specifications			
Temperature of working	0 ~ 5	0℃	
environment			DOSH GAD PA USB USB Blamet OCENDAR LINEOUT
Humidity of working	10~90%RH (no	n-condensing)	
environment			
Storage environment	-20 ~	60℃	192
emperature			
Storage environment humidity	10~90%RH (no	n-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s², X		
Cooling mode	Natural ai	r cooling	은 Cut-out size
Product certification			, l
Panel protection grade	_	5 certification(4208—93)	
CE authentication	EN61000-6-4:2007+A	A1:2011, EN61000-6-2:2005	
Software			
Configuration software	Kinco DTools V3.2	2 and above version	

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

^{*} Remarks: GL043 can replace MT4230T; GL043E can replace MT4230TE. (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 (U
Performance specification			
Display size	10	.1"TFT	
Display area	222.72mm(W)x125.28mm(H)		
Resolution	1024*600 pixels		258.9
Display color	16.7M color		
Display angle of view	70/70/60/70(le	280.3	
Contrast ratio	5	500:1	
Backlight		LED	GREEN SERIES
Brightness	40		
Backlight life	More than 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		uilt-in	
Extensible memory	1 U	SB Host	
Print port	USB Hos	st/serial port	35
Ethernet	None	10/100MHz self-adaption	-
Program download	USB Slave/U disk	USB Slave/U disk/Ethernet	II
Communication port		2/RS485/RS422;	
·		12:RS232	0 77.
Electrical specifications			
Input power supply	DC10V	~ DC28V	
Rated power	6W @24V DC		
Allowable loss of power	<3ms		W.
Insulation resistance	Over 50MΩ@500V DC		
Hi-pot test	500 VAC 1 minute		0 0
Structure specifications			
Shell material	Enginee	ring plastic	
Shape size	280mm*193mm*36mm		6 0
Cutout size	261mn	261mm*180mm	
Weight	0	.9Kg	
Environmental specifications			
Temperature of working	0 ~	- 50℃	
environment	0 · 30 C		
Humidity of working	10~90%RH (non-condensing)		
environment			
Storage environment	-20	~ 60°C	261
temperature			
Storage environment humidity	10~90%RH (r	non-condensing)	
Sine vibration test		, X, Y, Z direction/hour	
Cooling mode		air cooling	Cut out size
Product certification			Cut-out size
Panel protection grade	Conforming to IP65 certification(4208—93)		
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005		
Software			
Configuration software		3.2 and above version	

_	L	Dulit-iii		
ensible memory	1 l	JSB Host		
nt port	USB Ho	st/serial port		35.5
ernet	None	10/100MHz self-adaption	# In	
gram download	USB Slave/U disk	USB Slave/U disk/Ethernet		
mmunication port	COM0:RS232/RS485/RS422;			
	CO	M2:RS232	0 77.9	
ctrical specifications				
ut power supply	DC10\	√ ~ DC28V		
ed power	6W @	24V DC		₩
owable loss of power	<	3ms		•
ulation resistance	Over 50N	1Ω@500V DC		
pot test	500 VA	C 1 minute		
ucture specifications				
ell material	Engine	ering plastic		
ape size	280mm*1	L93mm*36mm	6	0 0
tout size	261m	m*180mm		
ight		0.9Kg		
vironmental specifications				
nperature of working	0	~ 50°C		
vironment				
midity of working	10~90%RH(non-condensing)		
vironment				
rage environment	-20	0 ~ 60℃	r 	261
nperature				
rage environment humidity	10~90%RH(non-condensing)		
e vibration test		² , X, Y, Z direction/hour		
oling mode	Natura	l air cooling	081	Cut-out size
duct certification			7	
nel protection grade		P65 certification(4208—93)		
authentication	EN61000-6-4:2007	7+A1:2011, EN61000-6-2:2005		
ftware				
nfiguration software	Kinco DTools V	/3.2 and above version		
omarks: CH100 can ranks	O MT4522T: CU1005	ronlace MT4E22TE		
emarks: GH100 can replac Ild version projects can be simulate		•		
na version projects can be simulate	ed in Proofs and download to Gre	sell selles 2 UIVII)		

* Rer (Old

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	16.7M color	
Display angle of view	70/70/60/70(left/right/up/down)	
Contrast ratio	500:1	
Backlight	LED	
Brightness	350cd/m ²	
Backlight life	More than 30000 hours	
Touch panel	4 line precision resistance network (surface hardness 4H)	<u>, e </u>
CPU	ARM RISC 32Bit 792 MHz	
Storage	128MB NAND Flash Memory+128MB DDR3 Memory	
RTC	Built-in	
Extensible memory	1 USB Host	4 7 6
Print port	USB Host/serial port	1 17 11
Ethernet	10/100MHz self-adaption	
Program download	USB Slave/U disk/Ethernet	
Communication port	COM0:RS232/RS485/RS422;	
·	COM2:RS232	
Electrical specifications		0 -
Input power supply	DC12V ~ DC28V,Built-in isolation power supply	
Rated power	8W	
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications		
Shell material	Engineering plastic	
Shape size	310mm*230mm*56mm	
Cutout size	299mm*219mm	T
Weight	1.715Kg	
Environmental specifications		
Temperature of working	0 ~ 50℃	Cut-out size $\frac{\sigma}{7}$
environment		
Humidity of working	10~90%RH (non-condensing)	
environment		
Storage environment	-20 ~ 60℃	ļ
temperature		
Storage environment humidity	10~90%RH (non-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		
Configuration software	Kinco DTools V3.2 and above version	
3	co b 100.0 10.2 unu ubove verbien	

^{*} 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	Mec
Performance specification		
Display size	15"TFT	
Display area	304.13mm(W)x228.10mm(H)	
Resolution	1024*768 pixel	
Display color	65536 colors	
Display angle of view	80/80/80/80(left/right/up/down)	
Contrast ratio	800:1	
Backlight	LED	
Brightness	420cd/m ²	
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	
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	
Rated power	16W@24V DC	
Allowable loss of power	<3ms	
Insulation resistance	Over 50MΩ@500V DC	
Hi-pot test	500 VAC 1 minute	
Structure specifications		
Shell material	Engineering plastic	
Shape size	398mm*298mm*47mm	
Cutout size	383mm*283mm	
Weight	3Kg	
Environmental specifications		
Temperature of working	-10 ~ 55℃	
environment		
Humidity of working	10~90%RH (non-condensing)	
environment	, , , , , , , , , , , , , , , , , , , ,	
Storage environment	-20 ~ 60℃	
temperature		
Storage environment humidity	10~90%RH (non-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	
Product certification		
Panel protection grade	Conforming to IP65 certification(4208—93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Software		
Configuration software	Kinco DTools V3.2 and above version	
-		

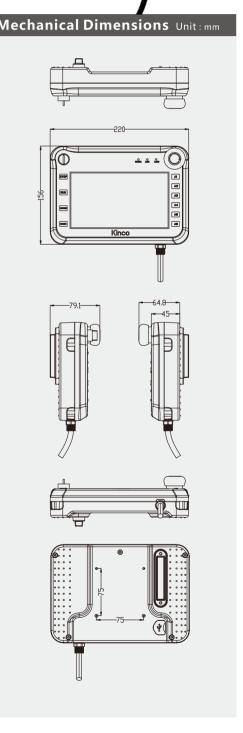
chanical Dimensions (Unit : mm) Cut-out size

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.



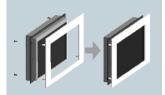
	SZ7	SZ7S	SZ7E	SZ7ES	N	
Model		3273	3272	32723		
Performance specificat	7"TFT					
Display size Resolution						
	800*480 pixel	5536 colors				
Display color						
Brightness	250cd/m ²					
Backlight	LED					
Touch panel		n resistance net	twork (surface h	ardness 4H)		
Backlight life	50000 hours					
Programable button	10					
Programable LED	2					
Emergency button	1					
Selection switch	1					
Handhold 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	self-adaptive		
Program download	RS232,USB Ho	ost	RS232,USB Ho	st,Ethernet		
COM port	RS485-2,RS23	RS485-2,RS232 RS232,Ethernet				
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@500V DC					
Dielectric strength test	500V AC 1 minute					
Cable length	5 m					
Structure specification						
Shell color	Black					
Shell material	Engineering plastic					
Dimensions	220*156*45 mm					
Installation	Bracket mounting, suspension mounting					
Environmental specific						
Operating temperature						
Operating humidity	10~90%RH (non-condensing)					
Storage temperature	-10 ~ 60°C					
Storage humidity	10~90%RH (non-condensing)					
Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour					
Cooling mode	Natural air cooling					
Product certification	ivacular all Cooling					
	Front panel ID65 overall unit ID62					
Degree of protection CE authentication	Front panel IP65, overall unit IP62 EN61000-6-4:2007+A1:2011, EN61000-6-2:2005					
	EINO1000-0-4.2007 +A1.2011, EINO1000-0-2:2005					
Software	Vince LIMI	.V2 F				
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.



Program download USB/Serial port USB/Seri	Model	MT4043R MT4070R MT4070ER MT4100R MT4100I					
Resolution	Performance specifica	tion					
Display color 65536 colors 250cd/m² 250cd/m² 250cd/m² 200cd/m²	Display size	4.3" TFT	7" TFT		10.1" TFT		
Brightness 250 cd/m² 250 cd/m² 200 cd/m² Backlight LED LED 200 cd/m² Touch panel 4 line precision resistance network (surface hardness 4H) Backlight life 50000 hours Processor 800MHz RISC SOMMHz RISC VEX. Memory 128MB Flash +64MB DDR2 256KB + RTC Expandable memory 1 USB Host(≤16G) 1 USB Host(≤16G) Print port USB Slave/Serial port USB Slave/Serial port USB Slave/Serial port Print port USB Slave/Serial port USB Slave/Serial port USB/Serial port Ethernet None None 10/100M self-adaptive None 10/100M self-adaptive Program download USB/Serial port USB/Serial port USB/Seri	Resolution	480*272 pixel	800*480 pixel		1024*600 pixel	1024*600 pixel	
Backlight LED	Display color	65536 colors	65536 colors		65536 colors		
Touch panel A line precision resistance network (surface hardness 4H)	Brightness	250cd/m ²	250cd/m ²		200cd/m ²		
Touch panel A line precision resistance network (surface hardness 4H)	Backlight						
Backlight life S0000 hours Processor 800MHz RISC Recipe memory&RTC 256KB + RTC	Touch panel	4 line precision resistance network (surface hardness 4H)					
Memory 128MB Flash + 64MB DDR2 256KB + RTC 256KB + RTC 256KB + RTC 1 USB Host(≤16G) 1 USB Slave/Serial port 1 SD card(≤16G only ER support) 1 SD card(≤16G only ER s	Backlight life	50000 hours					
Recipe memory&RTC Expandable memory 256KB + RTC 1 USB Host(≤16G) 1 USB Host(≤16G) 1 USB Host(≤16G) 1 USB Host(≤16G) 1 SD card(≤16G only ER support) 1 SD car	Processor	800MHz RISC					
Expandable memory 1 USB Host(≤16G) 1 USB Host(≤16G) 15D card(≤16G only ER support) 15D card(≤16d only ER support) 15D	Memory						
Print port USB Slave/Serial port USB/Serial port/Ethernet USB/Serial port USB/Serial port/Ethernet USB/Serial port USB/Serial port/Ethernet USB/Serial port USB/Serial port/Ethernet USB/Serial port USB/Serial port USB/Serial port/Ethernet USB/Serial port USB/Serial port/Ethernet USB/Serial port U	Recipe memory&RTC	256KB + RTC					
1SD card(≤16G only ER support) 1SD card(≤16G only ER support	Expandable memory	1 USB Host(≤16G)	1 USB Host(≤16G)		1 USB Host(≤16G)		
Print port USB Slave/Serial port I0/100M self-adaptive None 10/100M self-adaptive USB/Serial port/Etherofted COM0:Rs485-2W/4W,RS232; COM0:Rs485-2W/4W,RS	,			ER support)	1SD card(≤16G only	/ ER support)	
Program download USB/Serial port USB/Serial USB/Serial	Print port	USB Slave/Serial port			USB Slave/Serial po	ort	
COM port COMO:RS485-2W/4W,RS232; COM0:RS485-2W/4W,RS232; COM1:RS485-2W (only ER support); COM2:RS232; COM1:RS485-2W (only ER support); COM2:RS232; COM0:RS485-2W/4W,RS232; COM1:RS485-2W (only ER support); COM2:RS232; Electrical specification 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 43ms 43ms 43ms Insulation resistance Over 50MΩ@500V DC Over 50MΩ@500V DC Over 50MΩ@500V DC Dielectric strength test 500V AC 1 minute 500V AC 1 minute 500V AC 1 minute Shell color - - Grey Shell material 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 specifications Operating temperature 0~60°C Storage temperature 10~60°C Storage temperatur	Ethernet	None	None	10/100M self-adaptive	None	10/100M self-adaptive	
COM2:RS232; COM1:RS485-2W (only ER support); COM2:RS232; COM2:RS23	Program download	USB/Serial port	USB/Serial port	USB/Serial port/Ethernet	USB/Serial port	USB/Serial port/Etherne	
Electrical specification 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 ⟨3ms Insulation resistance Over 50MΩ@500V DC Over 50MΩ@500V DC Over 50MΩ@500V DC Dielectric strength test 500V AC 1 minute 500V AC 1 minute 500V AC 1 minute Structure specifications Shell color - Grey Shell color - Grey Shell material 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 specifications Operating temperature 0~50°C Operating temperature 10~60°C Storage temperature -10~60°C Storage temperature -10~60°C <td>COM port</td> <td colspan="3">COM0:RS485-2W/4W,RS232; COM2:RS232; COM1:RS485-2W (only ER support);</td> <td>COM1:RS485-2W (only</td> <td></td>	COM port	COM0:RS485-2W/4W,RS232; COM2:RS232; COM1:RS485-2W (only ER support);			COM1:RS485-2W (only		
Rated voltage DC24V DC24V DC24V Input range 12 ~ 28V DC 12 ~ 28V DC 12 ~ 28V DC Power down allowed <3ms <3ms <3ms	Electrical specification		33,112,113,232,		30111211102027		
Rated voltage DC24V DC24V DC24V Input range 12 ~ 28V DC 12 ~ 28V DC 12 ~ 28V DC Power down allowed <3ms	Rated power						
Power down allowed<3ms<3ms<3msInsulation resistanceOver 50MΩ@500V DCOver 50MΩ@500V DCDielectric strength test500V AC 1 minute500V AC 1 minuteStructure specificationsShell colorGreyShell materialMentalMentalMentalDimensions128*75*27 mm190.4*110*30 mm275.6*163.6*32 mmCutout size107.2*68.9 mm166*101 mm238*148 mmWeight0.2Kg0.3Kg0.9KgEnvironmental specificationsOperating temperature0 ~ 50°COperating humidity10 ~ 90%RH (non-condensing)Storage temperature-10 ~ 60°CStorage humidity10 ~ 90%RH (non-condensing)Sine vibration test10 ~ 500Hz, 30m/s², X, Y, Z direction/hourCooling modeNatural air cooling	Rated voltage	DC24V	C24V DC24V D				
Insulation resistanceOver $50M\Omega@500V$ DCOver $50M\Omega@500V$ DCDielectric strength test $500V$ AC 1 minute $500V$ AC 1 minuteStructure specificationsShell colorGreyShell materialMentalMentalMentalDimensions $128*75*27$ mm $190.4*110*30$ mm $275.6*163.6*32$ mmCutout size $107.2*68.9$ mm $166*101$ mm $238*148$ mmWeight 0.2 Kg 0.3 Kg 0.9 KgEnvironmental specificationsOperating temperature $0 \sim 50^{\circ}$ COperating humidity $10 \sim 90^{\circ}$ RH (non-condensing)Storage temperature $10 \sim 60^{\circ}$ CStorage humidity $10 \sim 90^{\circ}$ RH (non-condensing)Sine vibration test $10 \sim 500$ Hz, 30 m/s², X, Y, Z direction/hourCooling modeNatural air cooling	Input range	12 ~ 28V DC 12 ~ 28V DC 12 ~ 28V DC					
Dielectric strength test500V AC 1 minute500V AC 1 minuteStructure specificationsFeet of the structure specificationsShell color-GreyShell materialMentalMentalDimensions128*75*27 mm190.4*110*30 mm275.6*163.6*32 mmCutout size107.2*68.9 mm166*101 mm238*148 mmWeight0.2 kg0.3 kg0.9 kgEnvironmental specificationsOperating temperature0 ~ 50°COperating humidity10 ~ 90%RH (non-condensing)Storage temperature-10 ~ 60°CStorage humidity10 ~ 90%RH (non-condensing)Sine vibration test10 ~ 500Hz, 30m/s², X, Y, Z direction/hourCooling modeNatural air cooling	Power down allowed	<3ms <3ms					
Structure specificationsShell color-GreyShell materialMentalMentalDimensions $128*75*27 \text{mm}$ $190.4*110*30 \text{mm}$ $275.6*163.6*32 \text{mm}$ Cutout size $107.2*68.9 \text{mm}$ $166*101 \text{mm}$ $238*148 \text{mm}$ Weight 0.2Kg 0.3Kg 0.9Kg Environmental specificationsOperating temperature $0 \sim 50^{\circ}\text{C}$ Operating humidity $10 \sim 90\% \text{RH} (\text{non-condensing})$ Storage temperature $-10 \sim 60^{\circ}\text{C}$ Storage humidity $10 \sim 90\% \text{RH} (\text{non-condensing})$ Sine vibration test $10 \sim 500 \text{Hz}, 30 \text{m/s}^2, X, Y, Z \text{direction/hour}$ Cooling modeNatural air cooling	Insulation resistance	Over 50MΩ@500V DC Over 50MΩ@500V DC Over			Over 50MΩ@500V	DC	
Shell color-GreyShell materialMentalMentalMentalDimensions $128*75*27 \text{ mm}$ $190.4*110*30 \text{ mm}$ $275.6*163.6*32 \text{ mm}$ Cutout size $107.2*68.9 \text{ mm}$ $166*101 \text{ mm}$ $238*148 \text{ mm}$ Weight 0.2Kg 0.3Kg 0.9Kg Environmental specificationsOperating temperature $0 \sim 50^{\circ}\text{C}$ Operating humidity $10 \sim 90^{\circ}\text{RH}$ (non-condensing)Storage temperature $-10 \sim 60^{\circ}\text{C}$ Storage humidity $10 \sim 90^{\circ}\text{RH}$ (non-condensing)Sine vibration test $10 \sim 500 \text{Hz}$, 30m/s^2 , X, Y, Z direction/hourCooling modeNatural air cooling	Dielectric strength test	500V AC 1 minute 500V AC 1 minute			500V AC 1 minute		
Shell materialMentalMentalMentalDimensions $128*75*27 \mathrm{mm}$ $190.4*110*30 \mathrm{mm}$ $275.6*163.6*32 \mathrm{mm}$ Cutout size $107.2*68.9 \mathrm{mm}$ $166*101 \mathrm{mm}$ $238*148 \mathrm{mm}$ Weight $0.2 \mathrm{Kg}$ $0.3 \mathrm{Kg}$ $0.9 \mathrm{Kg}$ Environmental specificationsOperating temperature $0 \sim 50^{\circ}\mathrm{C}$ Operating humidity $10 \sim 90^{\circ}\mathrm{RH}$ (non-condensing)Storage temperature $-10 \sim 60^{\circ}\mathrm{C}$ Storage humidity $10 \sim 90^{\circ}\mathrm{RH}$ (non-condensing)Sine vibration test $10 \sim 500 \mathrm{Hz}$, $30 \mathrm{m/s^2}$, X, Y, Z direction/hourCooling modeNatural air cooling	Structure specification	ıs					
Dimensions 128*75*27 mm 190.4*110*30 mm 275.6*163.6*32 mm 238*148 mm 238*148 mm 0.2 kg 0.3 kg 0.9 kg 275.0 kg	Shell color	-	-		Grey		
Cutout size $107.2*68.9 \text{mm}$ $166*101 \text{mm}$ $238*148 \text{mm}$ Weight 0.2Kg 0.3Kg 0.9Kg Environmental specifications Operating temperature $0 \sim 50^{\circ}\text{C}$ Operating humidity $10 \sim 90^{\circ}\text{RH}$ (non-condensing) Storage temperature $-10 \sim 60^{\circ}\text{C}$ Storage humidity $10 \sim 90^{\circ}\text{RH}$ (non-condensing) Sine vibration test $10 \sim 500 \text{Hz}$, 30m/s^2 , X, Y, Z direction/hour Cooling mode Natural air cooling	Shell material	Mental	Mental		Mental		
Weight 0.2Kg 0.3Kg 0.9Kg Environmental specifications Operating temperature $0 \sim 50^{\circ}$ C Operating humidity $10 \sim 90^{\circ}$ RH (non-condensing) Storage temperature $-10 \sim 60^{\circ}$ C Storage humidity $10 \sim 90^{\circ}$ RH (non-condensing) Sine vibration test $10 \sim 500$ Hz, 30 m/s², X, Y, Z direction/hour Cooling mode Natural air cooling	Dimensions	128*75*27 mm	190.4*110*30 mm		275.6*163.6*32 mm		
Environmental specifications Operating temperature 0~50°C Operating humidity 10~90%RH (non-condensing) Storage temperature -10~60°C Storage humidity 10~90%RH (non-condensing) Sine vibration test 10~500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling	Cutout size	107.2*68.9 mm	166*101 mm		238*148 mm		
Operating temperature 0 ~ 50°C Operating humidity 10 ~ 90%RH (non-condensing) Storage temperature -10 ~ 60°C Storage humidity 10 ~ 90%RH (non-condensing) Sine vibration test 10 ~ 500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling	Weight	0.2Kg	0.3Kg		0.9Kg		
Operating humidity $10 \sim 90\%$ RH (non-condensing) Storage temperature $-10 \sim 60\%$ C Storage humidity $10 \sim 90\%$ RH (non-condensing) Sine vibration test $10 \sim 500$ Hz, 30 m/s², X, Y, Z direction/hour Cooling mode Natural air cooling							
$ \begin{array}{lll} Storage \ temperature & -10 \sim 60 ^{\circ}C \\ Storage \ humidity & 10 \sim 90 ^{\circ}RH \ (non-condensing \) \\ Sine \ vibration \ test & 10 \sim 500 Hz, \ 30 m/s^2, \ X, \ Y, \ Z \ direction/hour \\ Cooling \ mode & Natural \ air \ cooling \\ \end{array} $	Operating temperature	0 ~ 50°C					
Storage humidity 10 ~ 90%RH (non-condensing) Sine vibration test 10 ~ 500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling	Operating humidity						
Sine vibration test 10 ~ 500Hz, 30m/s², X, Y, Z direction/hour Cooling mode Natural air cooling	Storage temperature						
Cooling mode Natural air cooling	Storage humidity	10~90%RH (non-condensing)					
3	Sine vibration test	10 ~ 500Hz, 30m/s ² , X, Y, Z direction/hour					
Product certification	Cooling mode	Natural air cooling					
	Product certification						
Degree of protection IP65(420893)	Degree of protection	IP65(420893)					
CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005					
FCC compatibility Complies with FCC Class A	FCC compatibility	Complies with FCC Class A					
Software	Software						
Configuration software Kinco HMIware V2.5	Configuration software	Kinco HMIware V2.5					

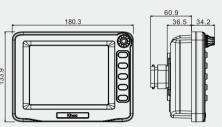
Kinco CZ6

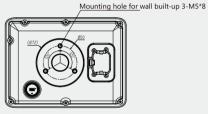
Design for severe environment only

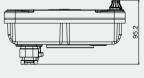
- $\hbox{-} Outer shell use high thermostability, high intensity, anti-uvior esist ant material \\$ ensure the best performance when HMI working in the severe environment.
- With wide range temperature LCD, working temperature can be -20℃ 60℃.
- Highly shockproof performance.
- Multiple serial ports,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

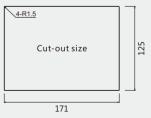


Model	CZ6	Mecha
Performance specificat	ion	
Display	5.7"TFT	
Resolution	640*480 pixels	
Color	65536 colors	
Brightness	700cd/m ²	
Backlight	LED	
Backlight life	50000 hrs	
Processor	RISC Cortex-A8 800MHz	
Memory	256MB Flash + 256MB DDR3	933.9
Recipe memory&RTC	32KB + RTC	#
Expandable memory	1 USB Host	
Print port	USB/serial port	
Ethernet	None	
Program download	1*USB 2.0/Serial port	
COM port	COM0: 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:	S	
Shell color	Navy blue	
Shell material	Engineering plastic	
Dimensions	180.3*133.9*70.7 mm	Œ
Cutout size	171*125mm	
Weight	1Kg	
Environmental specific		4-R
Operating temperature	-20 ~ 60℃	
Operating humidity	10~90%RH (non-condensing)	
Storage temperature	-30 ~ 80℃	
Storage humidity	10 ~ 90%RH (non-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	<u> </u>
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	
ga.aon oortmare		









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	M 1 : 18: :
		Mechanical Dimensions Unit:mm
Performance specificat		
Display	10.4"TFT	
Resolution	640*480 pixel	
Color	65536 colors	
Brightness	500cd/m ²	
Backlight	LED	54
Backlight life	50000 hrs	300
Touch panel	None	•
Funtion keys	16 keys, programmable functions can be customized	60 0
Processor	RISC Cortex-A8 800MHz	F10 F10 F10
Memory	256MB Flash + 256MB RAM	9 64
Recipe memory&RTC	32KB + RTC	9 9 9
Expandable memory	1 USB Host (≤16G)	(F)
Print port	USB Host/Slave/serial port	R6 G
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/	70.3
	NTSC interface	
Electrical specifications	s	
Power supply isolation	Built-in	
Rated power	12W	
Rated voltage	DC 24V	
Input range	9V ~ 36V DC	Ŷ
Power down allowed	<3ms	
Insulation resistance	Over 50MΩ@500V DC	_ 0
Dielectric strength test	500V AC 1 minute	
Structure specification	- S	
Shell color	Brown	
Shell material	Aluminum alloy	
Dimensions	300*226*70 mm	
Cutout size	281*207 mm	
Weight	3.3Kg	
Environmental specific		
Operating temperature	-20 ~ 70℃	Cut-out size
Operating humidity	10~90%RH (non-condensing)	
Storage temperature	-30 ~ 80°C	
Storage humidity	10~90%RH (non-condensing)	
Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour	
Cooling mode	Natural air cooling	281
Product certification	waturar an cooming	
Degree of protection	IP65(4280-93)	
CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
FCC compatibility	Complies with FCC Class A	
Software	Compiles with FCC Class A	
Configuration software	Vince DTeels V2.2 and above version	
Configuration software	Kinco DTools V3.2 and above version	

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.

Configuration software Kinco HMIware V2.5



F7



F10

Model	F7	F10	Mechanical Dimensions Unit: mm
Performance specificati	on		
Display	7"TFT	10.1"TFT	
Color	65536 colors		
Resolution	640*480 pixels	1280*800 pixels	F-30-1 182
Brightness	300cd/m ²	250cd/m ²	102
Backlight	LED		
Backlight life	50000 hrs		
Touch panel	4 line precision resistance net	twork (surface hardness 4H)	
Processor	800MHz RISC		
Memory	128MB Flash + 64MB RAM		
Recipe memory&rtc	512KB + RTC		
Expandable memory	1 USB Host (≤16G)		
Print port	USB Host/serial port		60
Ethernet	None		₩ ₩ ₩
Program download	USB HOST		
COM port	COM0:PLC RS485-2W,COM2:I	PC/PLC RS232(Isolation)	2/5
Electrical specifications			26
Power supply isolation	Built-in		
Rated power	5W	8W	62
Rated voltage	DC 24V		
Input range	DC 18V ~ 28V		
Power down allowed	<3ms		
Insulation resistance	Over 50MΩ@500V DC		
Dielectric strength test	500 VAC 1 minute		28.4
Structure specifications			
Shell color	Metal gray		
Shell material	Engineering plastic		P 167 F10
Dimensions	182*116*30 mm	250*167*28.4 mm	
Cutout size	Bracket mounting		
Weight	0.57Kg	0.91Kg	
Environmental specifica	ntions		
Operating temperature	0 ~ 50℃		
Operating humidity	10~90%RH (non-condensin	g)	73—100—
Storage temperature	-10 ~ 60℃		
Storage humidity	10~90%RH (non-condensing)		24 0
Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour		30
Cooling mode	Natural air cooling		
Product certification			
Degree of protection	IP65(4280-93)		L—73—I
CE authentication	EN61000-6-4:2007+A1:2011,	EN61000-6-2:2005	
FCC compatibility	Complies with FCC Class A		
Software			