



## **GREEN Series HMI**

# **GH150E**

#### Product Features:

- -Industrial-grade CPU, 800MHz, 128M DD R3;
- -15 ", HD display, 4: 3 industrial size;
- -Three anti-spraying + multiple isolation weights are more reliable;
- -Up to four serial ports + SD card expansion
- -Install the snap seal design, waterproof and anti-oil;
- -A new generation of Kinco DTools configuration software, powerful, simple and easy to use.





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.It supports cloud monitoring. 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.



## GREEN Series HMI GH150E





Display size 15°TFT Display area 304.13mm(W)x228.10mm(H) Display olor 65536 colors Display color 65536 colors Display angle of view 80/80/80/80/80/80/90/19ht/gipt/up/down) Display angle of view 80/80/80/80/80/90/19ht/gipt/up/down) Display angle of view 80/80/80/80/80/90/90/90/90/90/90/90/90/90/90/90/90/90	Model	GH150E	Mechanical Dimensions ( Unit : mm )
Display area  304.13mm(W)x228.10mm(H)  288  10247768 pixel  105play color  65536 colors  Display angle of view  80/80/80/80/80(left/right/up/down)  28cklight	Performance specification		
Resolution 1024768 pixel 10sipaly color 65536 colors 10sipaly angle of view 80/80/80/80/80/80/60/ight/up/down) 20sipaly angle of view 80/80/80/80/80/60/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/60/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/80/ight/ight/up/down) 20sipaly angle of view 80/80/80/80/80/80/80/80/80/80/80/80/80/8	Display size	15"TFT	
Display angle of view 80/80/80(left/right/up/down) Solisplay angle of view 80/80/80/80/80/80/80/80/80/80/80/80/80/8	Display area	304.13mm(W)x228.10mm(H)	269
Display color 65536 colors Siplay angle of view 80/80/80/80/80/1/right/right/up/down) Contrast ratio 80:0:1 Sacklight LED Sarightness 420cd/m² Sacklight Ife 50000 hours Fouch panel 4 line precision resistance network (surface hardness 4H) CPU ARM RISC 328it 800MHz PPU ARM RISC 328it 800MHz PPU ARM RISC 328it 800MHz PPU ARM RISC 328it 800MHz Situration PPU Bullt-in LED Contrast - 1 USB Host+ - 1 SD card USB 18ave/U disk/fethernet 10/100MHz self-adaption USB Slave/U disk/fethernet Communication port COM0:RS232/RS485/RS422; COM2:RS232; COM3:RS23/RS485/RS422; COM2:RS232; COM3:RS23/RS485/RS422; COM2:RS232; COM3:RS23/RS485/RS422; Com2:RS232; COM3:RS23/RS485/RS422; Com2:RS232; COM3:RS23/RS485/RS422; Com2:RS232; COM3:RS485 Serial port isolation Built-in Bui	Resolution	1024*768 pixel	
Display angle of view  80/80/80/80(left/right/up/down) Contrast ratio  800:1 Contrast ra	Display color		
Sacklight  LED  Arighness  420cd/m²  Asaklight life  50000 hours  FOUL ARM RISC 32Bit 800MHz  Storage  128MB NAND Flash Memory +128MB DDR3 Memory  Built-in  Storage  128MB NAND Flash Memory +128MB DDR3 Memory  Built-in  10/100MHz self-adaption  Toggram download  USB Slave/U disk/Ethernet  COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422;  COM2:RS232; COM3:RS232/RS485/RS422;  COM2:RS232; COM3:RS232/RS485/RS422;  COM2:RS232/RS485/RS422; COM1:RS232/RS485/RS422;  COM2:RS232/RS485/RS422; COM1:RS232/RS485/RS422;  COM2:RS232; COM3:RS232/RS485/RS422;  COM2:RS232/RS485/RS422;  COM2:RS23/RS485/RS422;  COM2:RS23/RS485/RS422;  COM2:RS23/RS485/RS422;  C	Display angle of view	80/80/80/80(left/right/up/down)	502
Brightness 420cd/m² Stacklight life 50000 hours Touch panel 4 line precision resistance network (surface hardness 4H) CPU ARM RISC 32Bit 800MHz CRIC Built-in Cixtensible memory 1 USB Host +15D card Crint port USB Host +15D card Communication port USB Host +15D card Communication port USB Slave/U disk/Ethernet COM0.RS232/RS485/RS422; COM1.RS232/RS485/RS422; COM2.RS232/COM3.RS232/COM3.RS232/RS485/RS422; Communication Built-in Communication Communication Built-in Communication Comm	Contrast ratio	800:1	
Askelight life 50000 hours  Souch panel 4 line precision resistance network (surface hardness 4H)  ARM RISC 32Bit 800MHz  Storage 128MB NAND Flash Memory +128MB DDR3 Memory  Built-in  Storage 128MB NAND Flash Memory +128MB DDR3 Memory  Built-in  1 USB Host +1 SD card  USB Host/serial port  1 USB Host +1 SD card  USB Slave/U disk/Ethernet  1 0/100MHz self-adaption  USB Slave/U disk/Ethernet  1 0/00MRz 323/Rs48/SR482/z; COM1-RS232/RS48/SR542/z;  COM2:RS232; COM3:RS48/S  Serial port isolation  Built-in  Idectrical specifications  Input power supply  DC21V – DC28V, Built-in isolation power supply  tated power  16W  Allowable loss of power  Isolation resistance  Over 50MQ@500V DC  Hi-pot test  500 VAC 1 minute  Structure specifications  Sinell material  Engineering plastic  388mm*298mm*47mm  Sinell material  Shape size 388mm*298mm*47mm  Sinell material  Final Engineering plastic  383mm*283mm  Weight  3Kg  Invironment  Invironment  10 ~ 90 % RH ( non-condensing )  Invironment  10 ~ 90 % RH ( non-condensing )  Invironment	Backlight	LED	308
The provided of the precision resistance network (surface hardness 4H) Pu ARM RISC 32Bit 800MHz Storage 128MB NAND Flash Memory + 128MB DPA3 Memory RIC Built-in Storage 128MB NAND Flash Memory + 128MB DPA3 Memory RIC Built-in 1 USB Host + 15 D card 1 U	Brightness	420cd/m <sup>2</sup>	
ARM RISC 32Bit 800MHz storage 128MB NAND Flash Memory +128MB DDR3 Memory RITC Built-in Extensible memory 1 USB Host +1 SD card USB Stave/U disk/Ethernet Communication port COM0-RS232/RS485/RS422: COM1-RS232/RS485/RS422: COM1-RS232/RS485/RS422: COM2-RS232/RS485/RS422: COM2-RS232/RS485/R	Backlight life	50000 hours	CRIEN SERVES
Storage 128MB NAND Flash Memory +128MB DDR3 Memory  Built-in Stxtensible memory 1 USB Host +1 5D card  USB Host +1	Touch panel	4 line precision resistance network (surface hardness 4H)	
Built-in  I USB Host/serial port  Chernet  I USB Host/serial port  Communication port  Coverson supply  Docative power supply  Docative power supply  Allowable loss of power supply  Allo	CPU		
Built-in Extensible memory  1 USB Host/serial port USB Host/serial port Ethernet  10/100MHz self-adaption USB Slave/U disk/Ethernet  COM0:RS232/RS485/RS42; COM1:RS232/RS485/RS42; COM2:RS232; COM3:RS232; COM3:RS485 Exerial port isolation  Built-in Electrical specifications Input power supply Input	Storage	128MB NAND Flash Memory+128MB DDR3 Memory	88
Print port USB Host/serial port Eithernet 10/100MHz self-adaption USB Stave/U disk/Ethernet Communication port COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422; COM1:RS232/RS485/RS42; COM1:RS232/RS	RTC		
The second section of the second section of the second section of the section of	Extensible memory	1 USB Host +1 SD card	· ·
USB Slave/U disk/Ethernet Communication port COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422; COM2:RS232; COM3:RS485  Built-in Built-in Built-in Built-in solation power supply Rated power Asma Islowable loss of power Asm	Print port	USB Host/serial port	Kinco
Communication port  COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422; COM2:RS232; COM3:RS485  Built-in  Betatrical specifications Input power supply	Ethernet	10/100MHz self-adaption	
Communication port  COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422; COM2:RS232; COM3:RS485  Built-in  Betatrical specifications Input power supply	Program download	USB Slave/U disk/Ethernet	
COM2:RS232; COM3:RS485  Built-in  Blectrical specifications  Input power supply  Rated power  Rated power supply  Rated power supple suits power supply  Rated power supple suits power supply  Rated power supply  R	Communication port	COM0:RS232/RS485/RS422; COM1:RS232/RS485/RS422;	47
Serial port isolation  Built-in  Selectrical specifications Input power supply Rated power  Allowable loss of power Insulation resistance Over 50MΩ@500V DC  Hi-pot test Structure specifications Shape size Shape size Substitution size Weight Structure specifications Semperature of working Invironment Humidity of working Invironment Humidity of working Invironment Forage environment humidity Invironment Forage environment Forage			30 7 (Include sealing ring)
Rectrical specifications Input power supply Rated power SUBDIA Rated Rated power Rated power Rated Rated Rated Rated Rated power Rated Rat	Serial port isolation	Built-in	
Rated power 16W Allowable loss of power 3ms Insulation resistance Over 50MQ@500V DC Istipot test 500 VAC 1 minute  Structure specifications Shell material Engineering plastic Shape size 398mm*298mm*47mm  Eutout size 383mm*283mm  Weight 3Kg Environmental specifications Femperature of working -10 ~ 55 °C Environment Humidity of working 10 ~ 90 % RH (non-condensing) Environment Storage environment -20 ~ 60 °C Emperature 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 Encolongade Conforming to IP65 certification(4208—93) Et authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005 Software	Electrical specifications		
Allowable loss of power	Input power supply	DC21V ~ DC28V,Built-in isolation power supply	
Insulation resistance  Over 50MQ@500V DC  Hi-pot test  500 VAC 1 minute  Structure specifications  Shell material  Engineering plastic  398mm*298mm*47mm  383mm*283mm  Neight  Servironmental specifications  Femperature of working  Invironment  Humidity of working  Invironment  Storage environment  Storage environment humidity  Invironment  I	Rated power	16W	
nsulation resistance  di-pot test 500 VAC 1 minute  Structure specifications  Shell material Engineering plastic Shape size 398mm*298mm*47mm  Cutout size 383mm*283mm  Neight 3Kg  Invironmental specifications  Temperature of working -10 ~ 55 °C  Temperature of working 10 ~ 90 % RH ( non-condensing )  Penvironment  Storage environment  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  Penoduct certification  Panel protection grade Conforming to IP65 certification(4208−93)  Eta authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Allowable loss of power	<3ms	
Structure specifications Shell material Shape size 398mm*298mm*47mm 383mm*283mm  Neight 3Kg  Servironmental specifications  Semperature of working Storage environment Storage environment humidity Storage environment humidity Storage environment humidity Storage environme	Insulation resistance	Over 50MΩ@500V DC	
Schell material  Engineering plastic Shape size  398mm*298mm*47mm  Sutout size  383mm*283mm  Weight  3Kg  Environmental specifications  Temperature of working  Invironment  Humidity of working  Invironment  Storage environment  Storage environment humidity  Invironment  Storage environment humidity  Invironment  Storage environment  Storage environment humidity  Invironment  Storage environment humidity  Invironment  Storage environment humidity  Invironment  Storage environment humidity  Invironment	Hi-pot test	500 VAC 1 minute	
Shape size  398mm*298mm*47mm  383mm*283mm  Weight  3Kg  Invironmental specifications  Temperature of working  anvironment  Humidity of working  anvironment  Storage environment  Storage environment  Storage environment humidity  To ~ 90 % RH ( non-condensing )  Sine vibration test  To ~ 50 °C  To ~ 60 °C	Structure specifications		
Aveight 3Kg  Invironmental specifications  Imperature of working -10 ~ 55 °C  Invironment  Indumidity of working 10 ~ 90 °RH (non-condensing)  Invironment  Invironment -20 ~ 60 °C  Imperature  Invironment -20 ~ 60 °C  Imperature -20 ~	Shell material	Engineering plastic	- <del>    -   -   -   -   -   -   -   -   -</del>
Weight  Servironmental specifications  Temperature of working  In ~ 90 % RH (non-condensing)  In ~ 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	Shape size	398mm*298mm*47mm	
Invironmental specifications  Itemperature of working  Invironment  Individity of working  Invironment  Individity of working  Invironment  Invironm	Cutout size	383mm*283mm	
Temperature of working  environment  Humidity of working  10 ~ 90 % RH ( non-condensing )  environment  Storage environment  -20 ~ 60 °C  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)  Et authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	Weight	3Kg	
environment Humidity of working  10 ~ 90 % RH ( non-condensing )  environment  Storage environment  -20 ~ 60 °C  emperature  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)  Et authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	<b>Environmental specifications</b>		
Humidity of working  10 ~ 90 % RH ( non-condensing )  environment  Storage environment  -20 ~ 60 °C  emperature  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)  Example authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	Temperature of working	-10 ~ 55℃	229
Storage environment  Storage environment  Storage environment  Storage environment humidity  Storage environment  Storage environ	environment		
Storage environment  -20 ~ 60 °C  semperature  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)  Example authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	Humidity of working	10 ~ 90 % RH ( non-condensing )	
Storage environment  -20 ~ 60 °C  demperature  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)  EE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	environment		383
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)  Example authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Storage environment	-20 ~ 60℃	
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)  Example 1	temperature		
Cooling mode  Natural air cooling  Product certification  Panel protection grade  Conforming to IP65 certification(4208—93)  Etauthentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Storage environment humidity	10 ~ 90 % RH ( non-condensing )	
Cooling mode Natural air cooling  Product certification  Panel protection grade Conforming to IP65 certification(4208—93)  Etauthentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Sine vibration test	10 ~ 500Hz, 30m/s², X, Y, Z direction/hour	6
Conforming to IP65 certification(4208—93)  Etauthentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Cooling mode		Cut-out size
EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Product certification		
Software	Panel protection grade	Conforming to IP65 certification(4208—93)	
	CE authentication	EN61000-6-4:2007+A1:2011, EN61000-6-2:2005	
Configuration software Kinco DTools V3.3 and above version	Software		
	Configuration software	Kinco DTools V3.3 and above version	

### **Kinco®** Automation