

## **GREEN Series HMI**

## G070/G070E/G070E-CAN

## **Product Features:**

- Industrial grade CPU, 800MHzm, 128M DDR3;
- 7", high-definition display, 16.77 million true colors;
- Three proofing spraying + Built-in isolated power to enhance reliability;
- Three serial ports for different levels of requirements;
- Support CANopen;
- Sealing design of buckle for waterproof and oil resistance.





The GREEN series cooperates with configuration software : Kinco DTools.

It supports eight languages versions of Chinese, Traditional Chinese, English ,Korean,Germany,Russia, Arabic and Turkey.

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.



## G070/G070E/G070E-CAN

- Three proofing spraying + Built-in isolated power to enhance reliability
- Three serial ports for different levels of requirements
- Support CANopen



Display area  154.08mm(W)x85.92mm(H)  Resolution  800*480 pixel  Display color  16.7M color  Display angle of view  7070/60/70(left/right/up/down)  Contrast ratio  500:1  Backlight  LED  Brightness  400cd/m²  Backlight iffe  More than 30000 hours  4 line precision resistance network (surface hardness 4H)  CPU  ARM RISC 32818 800MHz  Storage  256MB NAND Flash Memory+128MB DDR3 Memory  RICC  Extensible memory  1 USB Host Versial port  Extensible memory  1 USB Host Versial port  Extensible memory  1 USB Host Versial port  Extensible memory  1 USB Slave (Micro USB) USB	Model	G070	G070E	G070E-CAN	Mechanical Dimensions ( Unit : mm
Display area  154.08mm(W)x85.92mm(H)  Resolution  800*480 pixel  Display color  16.7M color  Display angle of view  7070/60/70(left/right/up/down)  Contrast ratio  500:1  Backlight  LED  Brightness  400cd/m²  Backlight iffe  More than 30000 hours  4 line precision resistance network (surface hardness 4H)  CPU  ARM RISC 32818 800MHz  Storage  256MB NAND Flash Memory+128MB DDR3 Memory  RICC  Extensible memory  1 USB Host Versial port  Extensible memory  1 USB Host Versial port  Extensible memory  1 USB Host Versial port  Extensible memory  1 USB Slave (Micro USB) USB	Performance specification				
Resolution    Storage   St	Display size		7"TFT		
Display color Display angle of view 70/70/60/70(left/right/up/down) Contrast ratio 500:1 Backlight LED Backlight Brightness 400cd/m³ Backlight life More than 30000 hours CPU ARM RISG 328it 800MHz Storage 256MB NAND Flash Memory+ 128MB DDR3 Memory RTC Extensible memory 1 USB Host Print port Ethernet None 1 10/100M self-adaption Bus interface None USB slave (Micro USB)/J disk J/J disk/tehment J/J	Display area	154.08mm(W)x85.92mm(H)			,
Display color Display angle of view 70/70/60/70(left/right/up/down) Contrast ratio 500:1 Backlight LED Backlight Brightness 400cd/m³ Backlight life More than 30000 hours CPU ARM RISG 328it 800MHz Storage 256MB NAND Flash Memory+ 128MB DDR3 Memory RTC Extensible memory 1 USB Host Print port Ethernet None 1 10/100M self-adaption Bus interface None USB slave (Micro USB)/J disk J/J disk/tehment J/J	Resolution	800*480 pixel			
Display angle of view 70/70/60/70(left/right/up/down) Contrast ratio 500:1 Backlight LED Brightness 8 400cd/m² Backlight life More than 30000 hours Touch panel 4 line precision resistance network (surface hardness 4H) CPU ARM RISC 328it 800MHz Storage 256MB NAND Flash Memory+128MB DDR3 Memory Built-in Extensible memory 1 USB Host Print port USB Host/serial port USB Host/serial port Ethernet None None None 1 10/100M self-adaption 1 1/CANopen Uss Slave (Micro USB)/U disk Uss Slave (Micro USB)/U disk Uss Slave (Micro USB)/U disk Uss Slave (Micro USB)/U disk/Ethernet COM0-RS232/RS485/RS422; COM1-RS485/RS422; COM1-RS485/RS422; COM2-RS232 Electrical specifications Input power supply DC12V - DC28V,Built-in isolation power supply 3.8W Allowable loss of power Insulation resistance Over 50MC/@ 500V DC Hi-pot test Structure specifications Yes Structure specifications Yes Structure specifications Yes 1 USB Slave (Micro USB) Yes Structure specifications Yes 1 USB Slave (Micro USB) Yes Structure specifications Yes Structure speci	Display color	16.7M color			"
Backlight Brightness 400cdm² Backlight life More than 30000 hours Touch panel 4 line precision resistance network (surface hardness 4H) CPU ARM RISC 32Bit 800MHz Storage 256MB NAND Flash Memory+128MB DDR3 Memory RIC Extensible memory 1 USB Host Post Print port USB Host Syerial port Ethernet None 10/100M self-adaption None 11°CANopen Program download USB Slave (Micro USB)/U disk // U disk/Ethernet Communication port COM0-RS232/RS485/RS422; COM1-RS485/RS422; C	Display angle of view	70/70/60/70(left/right/up/down)			189.7
Brightness  Backlight life  More than 30000 hours  Touch panel  4 line precision resistance network (surface hardness 4H)  CPU  ARM RISC 32Bit 800MHz  Storage  256MB NAND Flash Memory + 128MB DDR3 Memory  RTC  Built-in  Extensible memory  1 USB Host Print port  USB Host Sterial port  Ethernet  None  10/100M self-adaption  None	Contrast ratio				
Backlight life  More than 30000 hours  Touch panel  4 line precision resistance network (surface hardness 4H)  CPU  ARM RISC 32Bit 800MHz  Storage  256MB NAND Flash Memory+128MB DDR3 Memory  Built-in  Extensible memory  1 USB Host  VISB Slave  VISB Slave(Micro USB)  VID disk/Ethernet  COMMOR SURFACE  COMMOR SURFACE  COMMOR SURFACE  VISB Slave(Micro USB)  VID disk/Ethernet  COMMOR SURFACE  COMMOR SURFACE  COMMOR SURFACE  VISB Slave(Micro USB)  VID disk/Ethernet  COMMOR SURFACE  COMMOR SURFACE  COMMOR SURFACE  COMMOR SURFACE  VISB Slave(Micro USB)  VID disk/Ethernet  COMMOR SURFACE	Backlight	LED			204
Touch panel 4 line precision resistance network (surface hardness 4H) ARM RISC 328it 800MHz Storage 256MB NAND Flash Memory+128MB DDR3 Memory RIC Built-in Extensible memory 1 USB Host/serial port Ethernet None 10/100M self-adaption 10/100M self-adaption Bus interface None None 1*CANopen Program download USB Slave USB Slave(Micro USB) // Udisk/Ethernet COMURS232/RS482/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM2:RS232 Electrical specifications Input power supply DC12V ~ DC28V, Built-in isolation power supply Allowable loss of power   3.8W   Allowable loss of power	Brightness	400cd/m <sup>2</sup>			GREEN SERIES
ARM RISC 32Bit 800MHz Storage 256MB NAND Flash Memory + 128MB DDR3 Memory RTC Extensible memory 1 USB Host Extensible memory 1 USB Host Fint port USB Host/serial port Ethernet None 10/100M self-adaption 10/100M self-adaption Bus interface None None 1°CANopen USB Slave (Micro USB) // U disk // Ethernet Communication port COM0.RS232/RS485/RS422; COM1:RS485/RS422;COM2:RS5322  Electrical specifications Input power supply DC12V ~ DC28V,Built-in isolation power supply Rated power 3.8W Allowable loss of power <3ms Insulation resistance Over 50MΩ@500V DC Hi- pot test Structure specifications Structure specifications PCB spraying Yes Shell material Engineering plastic Shape size 204mm*150mm*37mm Cutout size 192mm*138mm Weight 0.5Kg Environmental specifications working Temperature 0 ~ 50°C Storage humidity 10 ~ 90%RH (non-condensing) Storage temperature 10 ~ 500°C Storage humidity 10 ~ 90%RH (non-condensing) Sine vibration test 10 ~ 500°L2, 30m/s*, X, Y, Z direction/hour Cooling mode Conforming to IP65 certification(4208—93) CE authentication ENG1000-6-4:2007+A1:2011, EN61000-6-2:2005 Software	Backlight life	More than 30000 hours			
Storage 256MB NAND Flash Memory+128MB DDR3 Memory RTC Built-in Extensible memory 1 USB Host Print port USB Host / Sterial port Ethernet None 10/100M self-adaption 10/100M self-adaption Bus interface None None 1*CANopen 1*CANop	Touch panel	4 line precision resistance network (surface hardness 4H)			0
RTC Extensible memory  I USB Host/serial port  Ethernet  None  10/100M self-adaption 10/	CPU	ARM RISC 32Bit 800MHz			om (
Extensible memory  Print port  USB Host/serial port  Ethernet  None  10/100M self-adaption  None  11-CANopen  USB Slave (Micro USB)/U disk (Micro USB)/U disk/Ethernet  COM0:RS232/RS485/RS422; COM1:RS485/RS422;COM2:RS232  Electrical specifications  Input power supply  DC12V ~ DC28V, Built-in isolation power supply  Rated power  Allowable loss of power  Insulation resistance  Over 50MΩ@S00V DC  Hi-pot test  Structure specifications  PCB spraying  Shell material  Engineering plastic Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH (non-condensing)  Storage temperature  0 ~ 50°C  Storage humidity  10 ~ 90%RH (non-condensing)  Storage temperature  None  10/100M self-adaption 11-CANopen  USB Slave(Micro USB) // Udisk/Ethernet // Udisk/Ethern	Storage	256MB NAND Flash Memory+128MB DDR3 Memory			
Print port  Ethernet None 10/100M self-adaption 10/100M self-adaption None 1*CANopen None 1*CANopen None 1*CANopen None 1*CANopen None 1*CANopen None 1*CANopen None None None None None None None No	RTC	Built-in			Kinco
Ethernet None 10/100M self-adaption 10/100M self-adaption Bus interface None None 1°CANopen USB Slave (Micro USB) // U disk/Ethernet USB Slave(Micro USB) // U disk/Et	Extensible memory		1 USB Host		
Bus interface  None  None  USB Slave (Micro USB)/U disk/Ethernet (Micro USB)/U disk/Et	Print port	USB Host/serial port			37.2
Program download  USB Slave (Micro USB)/U disk / Ethernet  COMM:RS232/RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS422; COM2:RS232  Electrical specifications  Input power supply DC12V ~ DC28V, Built-in isolation power supply Rated power 3.8W  Allowable loss of power Allowable loss of power  Insulation resistance Over 50MQ@500V DC  Hi-pot test Structure specifications  Yes Shell material Engineering plastic Shape size 204mm*150mm*37mm Cutout size 192mm*138mm Usight 0.5Kg Environmental specifications  Weight 0.5Kg Environmental specifications  working Temperature 0 ~ 50°C working Humidity 10 ~ 90%RH (non-condensing) Storage temperature 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	Ethernet	None	10/100M self-adaption	10/100M self-adaption	-35 - 6.5 (Contain seal ring)
(Micro USB)/U disk /U disk/Ethernet /U disk/Ethernet /U disk/Ethernet COM0.RS232/RS485/RS422; COM1:RS485/RS422; COM1:RS485/RS485/RS422; COM1:RS485/RS485/RS422; COM1:RS485/RS485/RS422; COM1:RS485/RS485/RS422; COM1:RS485/RS485/RS422; COM1:RS485/RS485/RS485/RS422; CO	Bus interface	None			<b>║</b> त <b>ा</b>
Electrical specifications  Input power supply DC12V ~ DC28V,Built-in isolation power supply Rated power 3.8W Allowable loss of power <a href="#">3.8W</a> A	Program download		` '		
Electrical specifications  Input power supply Rated power  3.8W  Allowable loss of power  Insulation resistance  Over 50MΩ@500V DC  Hi-pot test  500 VAC 1 minute  Structure specifications  PCB spraying  Yes  Shell material  Engineering plastic Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  10 ~ 90%RH ( non-condensing )  Storage temperature  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	Communication port				▎ ▎ ▎ ┃ ┃ ┃
Input power supply Rated power	Electrical specifications				<sup>-</sup>   L\
Rated power 3.8W  Allowable loss of power  Insulation resistance Over 50MΩ@500V DC  Hi-pot test 500 VAC 1 minute  Structure specifications  PCB spraying Yes  Shell material Engineering plastic  Shape size 204mm*150mm*37mm  Cutout size 192mm*138mm  Weight 0.5Kg  Environmental specifications  working Temperature 0 ~ 50°C  working Humidity 10 ~ 90%RH ( non-condensing )  Storage temperature -20 ~ 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  Panel protection grade Conforming to IP65 certification(4208—93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software		DC12V ~ DC28V.Built-in isolation power supply			
Allowable loss of power  Insulation resistance  Over 50MΩ@500V DC  Hi-pot test  500 VAC 1 minute  Structure specifications  Yes  Shell material  Engineering plastic Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  10 ~ 90%RH ( non-condensing )  Sine vibration test  10 ~ 500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Product certification  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software					
Hi-pot test  Structure specifications  PCB spraying  Shell material  Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  working Humidity  10 ~ 90%RH (non-condensing)  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Allowable loss of power	<3ms			——Ш
Hi-pot test  Structure specifications  PCB spraying  Shell material  Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  o ~ 50°C  working Humidity  10 ~ 90%RH (non-condensing)  Storage temperature  50 ~ 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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Insulation resistance	Over 50MΩ@500V DC			
Structure specifications  PCB spraying  Shell material  Engineering plastic  Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  7-20 ~ 60°C  Storage humidity  10 ~ 90%RH ( non-condensing )  Sine vibration test  10 ~ 500Hz, 30m/s², X, Y, Z direction/hour  Cooling mode  Product certification  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Hi-pot test	3111			
PCB spraying  Shell material  Engineering plastic  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Structure specifications				
Shell material  Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	PCB spraying		Yes		
Shape size  204mm*150mm*37mm  Cutout size  192mm*138mm  Weight  0.5Kg  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  202 ~ 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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Shell material	Engineering plastic			000 000
Weight  Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90 %RH ( non-condensing )  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208−93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Shape size				
Environmental specifications  working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208−93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Cutout size	192mm*138mm			
working Temperature  0 ~ 50°C  working Humidity  10 ~ 90%RH (non-condensing)  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208−93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Weight	0.5Kg			PROPERTY AND ASSESSMENT SHOPE SHOPE
working Humidity  10 ~ 90%RH ( non-condensing )  Storage temperature  -20 ~ 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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	<b>Environmental specifications</b>				
Storage temperature  -20 ~ 60℃  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  Panel protection grade  Conforming to IP65 certification(4208—93)  CE authentication  EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	working Temperature		0 ~ 50°C		
Storage temperature  -20 ~ 60 °C  Storage humidity  10 ~ 90 °R H (non-condensing)  Sine vibration test  10 ~ 500 Hz, 30 m/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	working 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	Storage temperature	-20 ~ 60°C			192
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	Storage humidity	10 ~ 90%RH ( non-condensing )			
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	Sine vibration test				1/2
Product certification  Panel protection grade Conforming to IP65 certification(4208—93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Cooling mode		Natural air cooling		
Panel protection grade Conforming to IP65 certification(4208—93)  CE authentication EN61000-6-4:2007+A1:2011, EN61000-6-2:2005  Software	Product certification				Cutout Size
CE authentication         EN61000-6-4:2007+A1:2011, EN61000-6-2:2005           Software	Panel protection grade	Conforming to IP65 certification(4208—93)			
Software	CE authentication		_		
	Software				
	Configuration software		Kinco DTools V4.1 and	d above	

