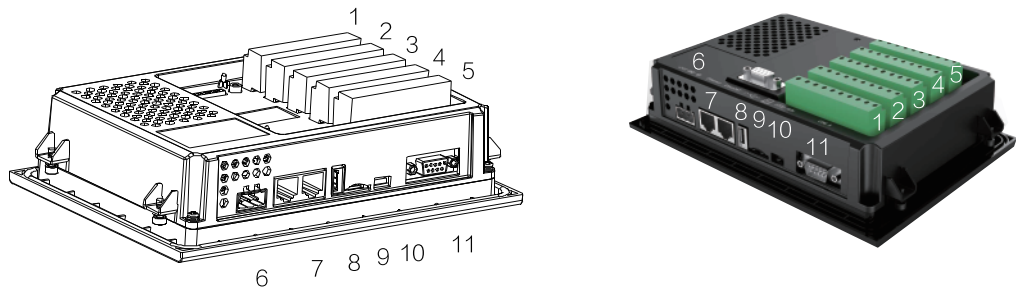
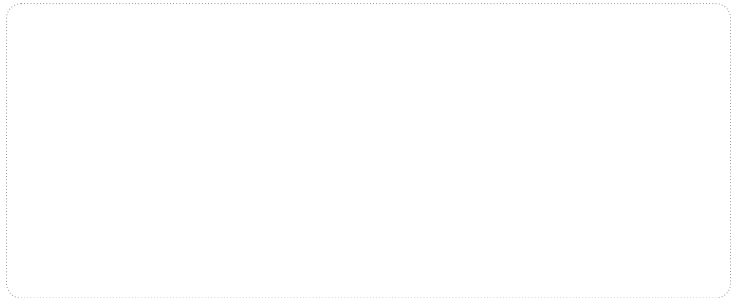



Wiring structure



NO	Terminal identification	Terminal sign	Terminal description	Terminal description
1	CN1	+24V 、 COM	output power supply	Output voltage:24VDC±10% Maximum output current: 200mA 1、 Internal impedance:3.3kΩ 2、 12-30V voltage input available 3、 The terminal is a bidirectional input terminal 4、 Maximum input frequency:1KHz 5、 X0,X1,X2 can be high-speed pulse input terminals Supporting frequency:100KHz
		0M	common port of X0-X7	
		X0～X6	digital input X0-X7	
2	CN2	X7	common port of X10-X17	
		1M	digital input X10-X17	
3	CN3	X10～X17	digital input X10-X17	
		2M	common port of X20-X23	
		X20～x23	digital input X20-X23	
4	CN4	3M	common port of X24-X27	
		X24～X27	digital input X24-X27	
		Y0～Y3		
5	CN5	COM1		1、 Open-collector output 2、 Frequency:1kHz 3、 Voltage range 24V(-15%~10%) 4、 Max.output current: 500mA 5、 Y15,Y16,Y17 support high-speed pulse output Supporting frequency:50KHz
		Y4～Y7		
		COM2		
6	CN5	Y10～Y13		
		COM3		
		Y14～Y17		
7	CN5	COM		
8	CN5			
9	CN5			
10	CN5			
11	CN5			

VC series
display and control integrated machine





Service line:86-755-23535967 E-mail:overseas@invt.com.cn Website:www.invt.com

SHENZHEN INVT ELECTRIC CO.,LTD.

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Industrial Automation:

• Frequency Inverter

• Servo & Motion Control

• Motor & Electric Spindle

• PLC

Electric Power:

• HMI

• Intelligent Elevator Control System

• Traction Drive

• Online Energy Management System

• SVG

• Solar Inverter

• UPS

• New Energy Vehicle Electric Control System

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66003-00182 Y8/1-11(V1.0)



Introduction

VC series display and control integrated products integrate the PLC and HMI functions, implementing the PLC programming and HMI configuration functions. They provide abundant interfaces to support the high-end application of motion control. Through the bus mode to achieve the flexible expansion of hardware modules, to achieve the customization and flexibility of industrial solution, to achieve more competitive stretch goals.



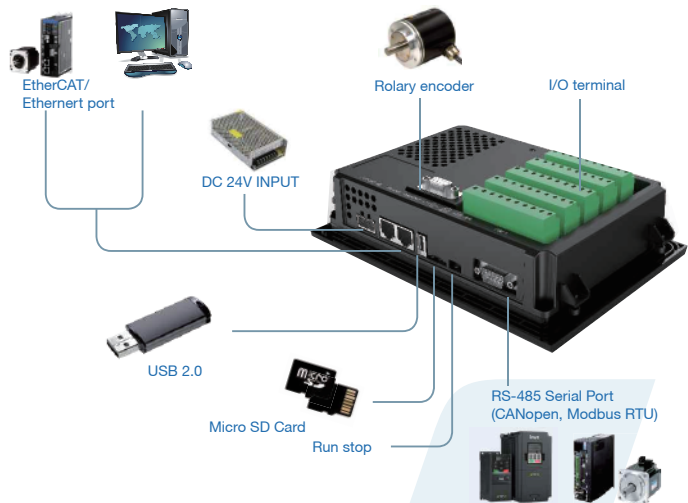
Type designation key

VC 070-1 E-R-ECAT-MP

1 2 3 4 5 6 7

Field	Sign	Description of sign	Detailed content
Product abbreviation	1	Product abbreviation	INVT VC series display and control integrated machine
HMI specification	2	HMI size	070: 7inches HMI
SD slot and flash memory	3	SD slot and flash memory	0: NO 1: YES
Ethernet	4	Ethernet interface	C: NO E: YES
Encoder	5	Encoder type	R: Resolver rotary transformer I: ABZ incremental type U:ABZ UVW incremental type A: 17bit single-revolution absolute value type
High speed bus	6	High speed bus type	ECAT: EtherCAT PNET: Profinet N: None
Subdivision industry	7	An industry-specific process software package that is customized for certain industry	MP: Mechanical pressure machine

System structure



Features

Powerful core

Equipped with industrial-level high-performance processor Cortex-A8, of which the frequency reaches 1 GHz

Diversified communication:

1. Equipped with built-in COM ports that integrate the RS485 and CAN communication modes
2. Providing the EtherCAT communication bus function

Function characteristics:

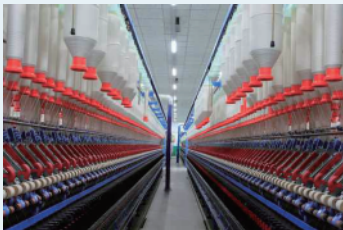
Allowing a PC to directly communicate with the PLC through HMI

Safety and reliability:

1. Industrial-level design, providing a brand new password mechanism to ensure safe and stable operation
2. Large FLASH memory, keeping data at power outage

Application scenarios

Widely used in cable, textile, woodworking, forging, seal and part of the operation and control functions.



Product specifications

Model	VC070-1E-R-ECAT-MP					
Parameter display	Dimension	Resolution	Color	Lightness (cd/m ²)	Backlight	Backlight service life (hrs)
	7.0"	800 × 480	16 million color	250	LED	>30000
CPU	1GHz ARM Cortex-A8					
Storage device	DDR2 128MB					
FLASH	256MB					
Operating system	Linux					
Number of I/O points	21 digital inputs; 3 high-speed pulse inputs; 16 transistor outputs (including 3 high-speed pulse outputs)					
Interface	SD card interface	USB Host		Ethernet	EtherCAT	RTC
	√	√		√	√	Built-in
	COMA	COMB				
	RS485/CAN	Optional accessories for resolver				
Electrical specifications						
Input voltage	24VDC ± 20%					
Rated current	1.5A					
Structural specifications						
Housing color	Black					
Housing material	Engineering plastics					
Outline dimensions (mm)	210×151×51 (W*D*H)					
Hole-cutting dimensions	191 × 137mm (W*D)					
General specifications						
Working temperature	0℃~40℃					
Working humidity	10%~90%RH (no condensation)					
Storage temperature	-20℃~70℃					
Cooling mode	Natural air cooling					
EMC	Meet the CE certification standard					
Panel ingress protection rating	IP65 (front panel)					
Installation mode	Embedded installation					

Boundary dimension

