

Unitronics PLC with Colour Touchscreen

The new Vision570 OPLC offers a Colour touchpanel HMI combined with a high-performance PLC

The Vision570 is Unitronics newest member of the Vision PLC and Graphic HMI series and for the first time offers a full colour graphics display capability.

Detailed specifications of the Vision570 are shown below. Many features are similar to the existing Vision models but the Vision570 incorporates the following points of difference:

- Colour TFT LCD display, 256 colours
- 320 x 240 pixels, QVGA (5.7")
- Up to 1024 user-designed screens
- Up to 12 independent PID loops (up to 32 loops with external auto-tune)
- 2 x RS232/485 ports
- Optional Ethernet port
- 2 MB application memory size
- 0.4µsec scan time for one bit operation
- 24Vdc power supply

What is the Vision Series?

The Vision Series is an innovative series of PLCs with built-in graphical operating panel or touch-panel, on-board or snap-in I/Os and powerful networking features.

The graphical LCD screen (or touchscreen) and full numeric keypad (or virtual keyboard) enable easy man-machine communication. The screen displays user-defined operator instructions and dynamic system data. Operators use the programmable keypad, the "touchable" images/texts and the virtual keyboard to enter data into the system and to initiate functions.

User-friendly Operator Interface

Unlike traditional 'blind' PLCs, a Vision PLC enables the operator to easily change programme parameters via the operating panel. The numeric keypad can be used to enter and modify variable application data, e.g. cutting length, timers, production quantities, part numbers, etc.

The display can be used to graphically monitor I/O or communication status, timers, analogue input and counter values.

Configurations for any application

A Vision system consists of the PLC and Operator Panel, CANbus, RS232 communication ports, real-time clock, an optional Snap-In I/O module (with a variety of features such as digital/analog on-board I/Os, shaft-encoders, PWM), and the ability to hook up additional I/O expansion modules to a single Vision controller. A user can easily design a network of Unitronics controllers, each with its own I/Os, supporting thousands of I/Os in a distributed application.

Article Number	V570-57-C30B	V570-57-T40B
Graphic Display Screen		
Type	CSTN LCD	TFT LCD
Touchscreen	Resistive, analog	
Display Resolution & Size	320x240 pixels (QVGA), 5.7" active area	
Colors	256	
HMI Display	Up to 1024	
Keyboard options	Virtual touch keypad	
Program		
Application Memory	2000K	
Execution Time per Bit Operation	0.4µsec	
Memory Bits (coils)	4096	
Memory Integers (registers)	2048	
Long Integers (32 bit)	256	
Memory Floats	24	
Double Word (32 bit unsigned)	64	
Timers	192	
Counters	24	
Data Tables	Up to 120K (RAM), up to 192K (Flash)	
Communication		
RS232/RS485	2 isolated ports. Select RS232 or RS485 via DIP switch	
Ethernet	1 optional port (sold separately). Supports programming and networking via TCP/IP	
CANbus	1 isolated port. Supports CANopen and uniCAN	
MODBUS	Supports MODBUS protocol, Master/Slave	
GPRS	Access your Vision using a remote PC, via wireless data transmission. Supports programming, data acquisition and SMS	
GSM	SMS messages to/from any quantity of phone numbers. Supports programming and Remote Access	
General		
Power Supply	24VDC	
PID	Up to 12 independent PID loops, including internal auto-tune, ramp-soak programmer and bumpless transfer (up to 32 loops with external auto-tune)	
Battery back-up	7 years typical at 25°C, battery back-up for all memory sections and real-time clock (RTC). Easy battery replacement, without opening the controller	
Environment	IP65/NEMA-4X (for panel, when mounted)	

Advanced features and options

All Vision models include independent PID loops, a 120K smart database and other features that reduce hardware and save time. Comms options include Ethernet, GSM/SMS support, MODBUS (Master/Slave), modem access and easy access to external devices such as SCADA systems, etc.

Easy Programming

VisiLogic™ Ladder software provides a Windows environment for the creation of both the PLC Ladder control programme and the

graphical HMI operator interface. This saves the time and effort of programming the HMI and PLC in 2 separate environments.

The Vision Package

All Vision packages include the OPLC, VisiLogic software, programming cable, mounting hardware and a user guide.

More information on V570?

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