



CCD-81T Barcode Scanner



CCD-81T

The *ComputerWise* CCD-81T is a rugged handheld barcode scanner which features a high performance CCD optical sensor. The high-reliability of CCD-81T scanner stands upon a design with no moving parts and a completely solid state scanner system.

Operation

The unit operates on a 660nm visible red LED array which illuminates the barcode being scanned with bright visible light beam to insure rapid and accurate decoding of bar codes up to 82 millimeters wide. The standard model produces a TTL output signal of the scanned data in a wand emulation format (Code 39). The standard model also is equipped with a DIN-5 connector that is compatible on all *ComputerWise* TNET Terminals, Ethernet Terminals, and Ethernet Workstations

Configurations

Other models are available with RS232 or PC keyboard wedge interfaces. Re-configuration of the CCD-81T can be easily done by scanning barcodes in the users manual.

Features and Benefits

Compatibility

Interfaces to any Computerwise shop floor terminal or data collection device via the DIN-5 bar code port.

Connectivity

Standard model is TTL wand emulation; other models have RS232 or PC keyboard wedge.

Durability

Durable for a rough working environment. The CCD-81T can withstand a drop of one meter onto a concrete surface.

Cost-Effective

The detachable connecting cable gives flexibility and eases maintenance.

Features

- *Low-power consumption: < 60mA*
- *Long depth of field: > 3"*
- *High scan rate: >= 200 scan/sec.*
- *Easy configuration procedure.*
- *Intelligent scanning adjusts for the inherent variations in bar codes and lighting conditions.*

Real Performance

Adjusts for printer induced bar space variation, faded labels, short quiet zones, lowcontrast codes, dot matrix printing, better optics, and improved decoding algorithms.

CCD-81T Features



Engineering Design

Light Source: 660 NM Red LED Array
Power Source: +5V DC, +/- 5%
Photo Sensor: 2048 Pixel CCD
Processor: Intel 80C31
Decoder: Proprietary
Body Material: +ABS
Cable: 2.0 meter, coil
Weight: 138g without cord
Interface: Wand Emulation, others available on request, etc.

Performance

Scan Rate: 33 scan/sec to 200 scan/sec
Resolution: 0.125mm (5Mil.)
Print Contrast Ratio: 0.45 Min
Depth of Field: 0-15mm (for normal series)
 0-75mm (for long-range series)
Width of Field: 82mm (max.)
Power Consumption: 60mA (for low-power series)
 135mA (for normal series)
Shock Resistance: 1 meter drop onto concrete
Readable Barcodes: Code 39, Extended Code 39, UPC/EAN/JAN, CODABAR, Interleaved 2/5, Code 128, Code 11, Code 93, MSI/PLESSEY Code 4



CCD Scanner with Stand

Cable Connector PIN Assignments

Keyboard Signal Output		
FUNCTION	5 PIN DIN (F)	5 PIN DIN (M)
GND	4	4
PC_Data	-	2
PC_CLK	-	1
Vcc+5V	5	5
KB_CLK	1	-
KB_Data	2	-

Wand Emulation Signal Output	
FUNCTION	5 PIN DIN (M)
Signal Data	2
GND	3
Vcc+5V	1

Operating Environment

Operating Temperature: 0 C - 50 C
Storage Temperature: -10 C - 60 C
Relative Humidity: 5% to 95% non-condensing
EMI Emission: FCC Class A
Ambient Light: 1500 Lux
Connectivity: TTL Wand Emulation, DIN5, DIN6, PS/2, others

Dimensions

Length: 5.3 in. (13.5 cm)
Height: 6 in. (15.2 cm)
Width: 3.1 in. (7.9 cm)
Weight: 6.3 oz. (179.2 g)
Housing: Polycarbonate/ABS blend, UL 94V0
Power Requirements: 5Vdc + 10% at scanner
Interfaces: All ComputerWiseterminals via RS-232 serial port

Warranty

One-year factory warranty