Symbol Phaser P460

symbol®

Multi-Functional Scanner for Multi-Tasking Environments

The P460 memory scanner breaks new ground in retail-industry scanning. Equipped with memory, keypad, display and an award-winning ergonomic design, this hand-held scanner switches seamlessly from data scanning to data management.

Ideal for specialty retail and department stores, the economical P460 plays many roles. At the point of sale, it is a corded hand-held scanner. Placed in a Symbol IntelliStand, it becomes an easy-to-use, hands-free presentation scanner, perfect for scanning small items. In cordless mode, the P460 moves onto the sales floor and loading dock for inventory counts and audits, price checks, order generation, receiving and transfers.

Award-Winning Design

The P460 is comfortable to hold and easy to use. The futuristic "handle-forward" design was awarded a gold medal in the 1998 Industrial Design Excellence Awards (IDEA98) by *Business Week* magazine and the Industrial Design Society of America. The scanner's ergonomic contours fit the hand securely and help reduce fatigue, which is important in scan-intensive applications. The P460's 17-key numeric keypad and easy-to-read two-line by 20-character display are top-mounted for effortless access and visibility.

The P460 weighs just 12 oz./336 gm. The unit is rugged and comfortable to use. Symbol built it to withstand multiple 5 ft/1.5 m drops to concrete.

A Memory Option for Your Application

The standard 1 MB model provides ample storage for inventory counts, stock transfers and similar data management applications as well as sufficient memory for look-up files, which can be downloaded to the scanner. Support for look-up files is critical to certain real-time data capture and management applications, such as inventory checks and receiving. Ask Symbol about the 4 MB memory option. The scanner's two-line display can show simple commands such as "Enter Quantity," or "Scan Item," use the scroll key to view longer lists or menus.

Tailor Applications with Ease

Because flexibility is the hallmark of the P460 memory scanner, Symbol Technologies teamed it with MCL™- Designer, an easy-to-use Windows®-based application development tool. Using MCL-Designer's intuitive graphical user interface, even non-programmers can create custom programs. Applications can be simulated and debugged before they are downloaded to the P460. The MCL-Code Interpreter comes preloaded in the P460's memory.

Flexible Host Interface

The P460's flexibility extends to the host interface. When you are ready to send or receive data, connect a cable to the P460, or place it in the optional communications cradle. Either way, the P460 interfaces via RS-232 or Symbol's Synapse® "smart" cable to many hosts in many different configurations. Up to 12 cradles can be "daisy chained" to a single RS-232 port on the host.

Plenty of Power

The P460 comes with a high-capacity rechargeable lithium-ion battery that powers the unit for up to 12 hours even during scan-intensive applications. The P460 recharges its battery automatically whenever it is supplied with power either through the cable or cradle. A complete recharge takes less than four hours.

For More Information

Symbol systems are critical to business success in data-intensive, time-critical environments because our systems enable you to capture, access and manage information at the point of business activity.

To find out more about how your company can benefit from the versatility, cost-effectiveness and ease of use of the P460 memory scanner, call any of the convenient locations on the back address panel, or visit us at www.symbol.com

P460 Specification Highlights

Physical Characteristics

Dimensions:	7.0 in. H x 9.2 in. W x 3.5 in. D/17.8 cm H x 23.1 cm W x 9.0 cm D
Weight:	12 oz./336 gm
Light Source:	Visible Laser Diode at 650 nm
Scan Rate:	35±5 scans per second
Scan Angle:	42°±2°
Minimum Print Contrast:	20% absolute dark/light reflectance
Drop Specification:	Multiple 5ft/1.5 m drops to concrete
Keyboard:	17-key keypad, single-stroke numeric, shifted alpha, user-programmable function keys
Display:	2-line x 20-character; longer lists or menus can be viewed using the scroll keys
Power:	External power supply into cable or cradle; cordless power from a high-capacity rechargeable Lithium-ion battery automatically recharges from external power via cable or cradle

Performance Characteristics

Decode Capability:	UPC/EAN, Bookland EAN, Code 39, Code 39 Full ASCII, Trioptic Code 39, Code 93, Codabar, Interleaved 2 of 5, Code 128, EAN 128, Discrete 2 of 5, MSI Plessey, and Coupon Code
CPU:	Toshiba T900H
Memory:	1 MB or 4 MB of Memory
Application Development:	MCL-Designer; runtime interpreter preloaded
Communications:	RS-232 Serial or Symbol Synapse cables, direct connect or via optional cradle

User Environment

Ambient Light:	Sunlight: 10,000 ft.-candles/107,644 lux Incandescent, fluorescent, sodium vapor and mercury vapor: 450 ft.-candles/4,844 lux
Operating Temperature:	32° to 104°F/0° to 40°C
Storage Temperature:	-40° to 158°F/-40° to 70°C
Humidity:	5% to 95% (non-condensing)

Peripherals and Accessories

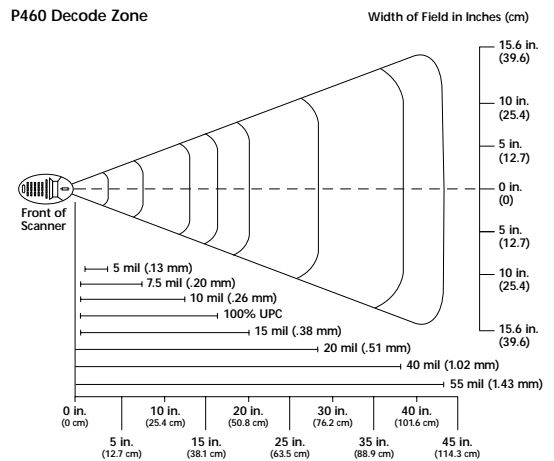|	
Cradle:	Single-slot cradle optional for host-computer communications. Desk-mountable or wall-mountable RS-232 Serial or Symbol Synapse cables
Hands-Free Stand:	Symbol "IntelliStand" for hands-free scanning in presentation-mode. Scanner automatically goes into pulse-mode when placed into stand

Regulagtory:

EMI/RFI:	**FCC Part 15 Class A, European Union EMC Directive, Australian SMA**
Electrical Safety:	Certification to UL1950, CSA C22.2 No.950, EN60950/IEC950
Laser Safety:	CDRH Class II, IEC825-1/EN60825-1 Class 2

N410 CE

CAUTION
LASER LIGHT—
DO NOT STARE INTO BEAM
630nm-680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

P460 Decode Zone

Width of Field in Inches (cm)

15.6 in. (39.6)
10 in. (25.4)
5 in. (12.7)
0 in. (0)
5 in. (12.7)
10 in. (25.4)
15.6 in. (39.6)

Front of Scanner

5 mil (.13 mm)
7.5 mil (.20 mm)
10 mil (.26 mm)
100% UPC
15 mil (.38 mm)
20 mil (.51 mm)
40 mil (1.02 mm)
55 mil (1.43 mm)

0 in. (0 cm)   10 in. (25.4 cm)   20 in. (50.8 cm)   30 in. (76.2 cm)   40 in. (101.6 cm)
5 in. (12.7 cm)   15 in. (38.1 cm)   25 in. (63.5 cm)   35 in. (88.9 cm)   45 in. (114.3 cm)

Typical Depth of Field in Inches/Centimeters

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