Phaser™ P360 and P460

Scan-Intensive Batch Data Collection

symbol®

Versatile Memory Scanners with Programmable Architecture

The P360 and P460 memory scanners from Symbol Technologies are rugged, high-performance devices designed to minimize fatigue in scan-intensive applications. These batch data collection tools allow you to collect data while freely roaming the premises for up to 12 hours. To download data, simply drop the P360/P460 into the cradle connected to the host. The P360/P460 also operate in a corded mode when cabled to a host. What's more, these scanners ship with a free inventory application enabling users to manually key in alphanumeric data and quantities. Review and delete existing records right out of the box using the top-mounted keypad and display.

For added versatility, the P360/P460 offer a programmable architecture that extends functionality to deliver portable terminal-like capabilities. MCL™-Designer's intuitive graphical user interface allows even non-programmers to develop custom data management applications that harness the scanners' keypad, display and on board computing power. Use MCL-Link communication software to connect the P360/P460 to your host. MCL-Link capabilities include ODBC database connectivity and the automation of frequent tasks such as nightly data downloads and look-up file updates.

Scan with Confidence in Any Environment

Available in two configurations, the P360/P460 deliver the scanning performance users have come to expect from Symbol. Sealed to IP54 standards, the P360 is suited for extreme environments and withstands multiple 6 ft./1.8 m drops to concrete, making it ideal for warehouse, yard or loading dock applications. The P460 delivers identical data capture functionality for in-store uses like gift registry, POS scanning, inventory counts and price checks.

Flexible Host Connectivity and Easy System Integration

Whether scanning and storing in batch mode or cabled to a host, the P360/P460 offer RS-232 and Symbol's Synapse "smart" cable interfaces for connectivity to all popular hosts. The standard 1 MB version provides ample memory capacity for inventory counts and everyday data management tasks including those using look-up tables. Consider the 4 MB or 8 MB models for applications requiring very large look-up tables. Both the P360 and P460 support 123Scan™.

Features	Benefits
Corded or batch operation	Multi-tasking scanner performs both inventory (batch) and POS (real-time cabled) data collection
Preloaded inventory application	Scan and store bar code data right out of the box—enter quantities, review and delete records
Supports 123Scan™ Advanced Data Formatting utility	Easy seamless integration of scanned data into the existing host application
17-key alphanumeric keypad and 2-line x 20-character display	Increase productivity—view, enter and delete scanned records right out of the box
Programmable architecture	Easy development of customized scanning applications using MCL-Designer
Non-volatile memory	Data in memory is not lost when the unit is powered down
Flash memory	Easy software upgrades in the field

This Windows®-based Advanced Data Formatting utility enables bar coded data to be formatted before transmission to the host device, thereby ensuring compatibility with the host application. The scanners may be programmed via PC download, or by scanning bar codes generated by the utility.

To find out more about how your company can benefit from Symbol's memory scanners, contact any of the locations listed on the back or visit us at **www.symbol.com**

P360 and 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
Color:	P360: Yellow body with dark gray keypad P460: Cash register white body with light gray keypad
Keypad:	17-key keypad; single stroke numeric and shifted alpha; user-programmable function keys
Display:	2-line x 20-character; view long lists/menus using scroll keys with MCL application
Power:	External power to scanner via cable or cradle; batch power from 1100 mAh lithium-ion battery. Battery automatically recharges from external power via cable or cradle
Battery Charge Time:	Fully charged (100%) in approximately 3.5 hours

Performance Characteristics

Light Source:	650 nm visible laser diode
Scan Rate:	35 ±5 scans per second (bi-directional)
Nominal Working Distance:	See Decode Zone
Print Contrast Minimum:	20% minimum reflectance
Scan Angle:	42° ±2°
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
Memory Options:	1 MB: Stores approximately 11,500 UPC* bar codes 4 MB: Stores approximately 53,000 UPC* bar codes 8 MB: Stores approximately 115,000 UPC* bar codes Look-up files can hold a larger quantity of records. Maximum number of records per file is a function of bytes per record *Each UPC bar code is 65 bytes including descriptor data
Interfaces Supported:	RS-232, MCL-Link Lite or Symbol Synapse cables (Keyboard Wedge, USB, OCIA, Dual RS-232, etc.)

User Environment

Operating Temperature:	P360: -4° to 122° F/-20° to 50° C P460: 32° to 104° F/0° to 40° C
Storage Temperature:	-40° to 158° F/-40° to 70° C
Humidity:	5% to 95% noncondensing
Drop Specifications:	P360: Multiple 6 ft./1.8 m drops to concrete over entire temperature range P460: Multiple 5 ft./1.5 m drops to concrete over entire temperature range
Environmental Sealing:	P360: All components sealed to IP54 against windblown rain and dust
Ambient Light Immunity:	Sunlight: 10,000 ft.-candles/107,644 lux Artificial light: 450 ft.-candles/4,844 lux

Applications

Default Applications loaded):	Corded: Transmit scanned or keyed in alphanumeric data; (pre-key in quantity to eliminate repetitive bar code scanning Uncorded (Batch): Store scanned or keyed in data. Review and delete records and key in quantities
MCL-Designer (optional):	Windows-based application development software for creation of customized P370/P470/P360/P460 scanner applications
MCL-Link (optional):	Communications software used with MCL-Designer-generated applications. Enables seamless connection to host application for task automation, ODBC connectivity, built-in CRC error detection and more

Cradle

Versions:	Single-slot wall or desk-mount cradle optional for host communications and battery charging Color: PL360 Dark Gray; PL460 Light Gray
Dimensions:	3.5 in. H x 9.5 in. L x 4 in. W/8.9 cm H x 24.1 cm L x 10.2 cm W
Power:	Operates from a separate 9V power supply 1.2A
Cables:	RS-232 or Symbol Synapse cables

Accessories

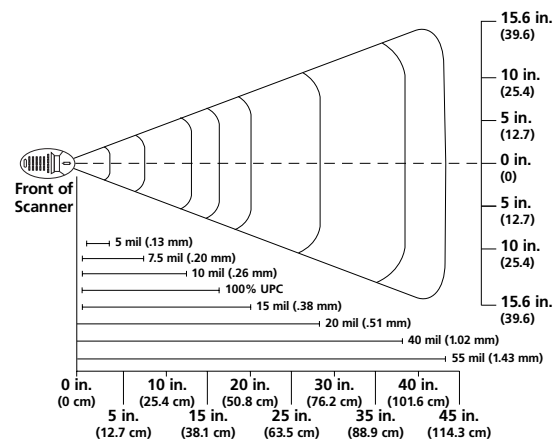|	
Hands-Free Stand:	Symbol IntelliStand for hands-free presentation scanning. Scanner automatically goes into presentation mode when placed into stand

Regulatory

Electrical Safety:	Certification to UL1950, CSA C22.2 No. 950, EN60950/IEC950
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC Directive, Australian SMA
Laser Safety:	CDRH Class II, IEC Class 2

N410 CE

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

P360 and P460 Decode Zone

Width of Field in Inches (cm)

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)

- 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)

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