

# Phaser™ P360 and P460



## Batch Data Collection

### MEMORY BAR CODE SCANNERS

#### Flexibility that Works Inside and Outside the Enterprise

The Phaser P360 and P460 memory bar code scanners from Symbol Technologies are rugged, high-performance devices that deliver the flexibility you need to realize reduced costs and improved efficiencies in your business operations—at the point-of-sale, on the factory floor or in the warehouse.

Designed with a comfortable forward-scanning pistol grip to minimize fatigue in scan-intensive applications, these batch and cable-mode handheld scanners allow users to collect data while freely roaming the premises.

Market	Applications	User
Manufacturing/ Industrial	Loading dock Factory floor Warehouse	Shipping and receiving clerks Assembly and line personnel Forklift operators
Retail	Point-of-sale scanning Inventory counts Price verification Gift registry	Cashiers Clerks Cashiers Consumers

#### Easy System Integration and Programmable Architecture

The P360 and P460 offer easy system integration along with a programmable architecture that extends functionality beyond basic bar code scanners. Both the P360 and P460 support the 123Scan setup utility software, a convenient Microsoft® Windows®-based program that helps reduce your start-up time and costs for these scanners. This free utility enables you to configure communication settings and enable/disable symbologies. It also assists you in generating advanced data formatting (ADF) rules to allow bar code data to be modified by the scanner before it is sent to the host application. The P360 and P460 scanners can be programmed via PC download or by scanning bar codes generated by the utility.

For added versatility, you can also purchase MCL™-Designer software, a programmable architecture that extends P360 and P460 scanner functionality. Even non-programmers can develop custom data management applications to harness the on board computing power of these scanners. Further, MCL-Link communication software easily connects the P360 and P460 to your host. Capabilities include ODBC database connectivity plus the automation of frequent tasks such as nightly data downloads and look-up file updates.

#### Proven Performance and Affordability

With the Phaser P360 and P460 memory bar code scanners, you can choose the device that best meets your application needs in any environment. The P360 is suited for extreme environments,



Features	Benefits
<b>Corded or batch operation</b>	Enables both inventory (batch) and POS (real-time cabled) data collection
<b>Preloaded inventory application software</b>	Scans and stores bar code data right out of the box—enter quantities, review and delete records
<b>Supports 123Scan utility software and advanced data formatting (ADF)</b>	Delivers seamless integration of scanned data into the existing host application
<b>17-key alphanumeric keypad and 2-line x 20-character display</b>	Allows users to easily view, enter and delete scanned records for maximum productivity
<b>Forward-scanning pistol grip</b>	Reduces user fatigue with comfortable grip for scan-intensive environments
<b>Non-volatile memory</b>	Saves data if the unit loses power
<b>Flash memory</b>	Conduct easy software upgrades in the field
<b>4MB or 8MB memory</b>	Provides ample memory capacity for inventory counts and look-up tables
<b>Sealed to IP54 standards (P360 only)</b>	Suitable for extreme environments
<b>Optional MCL-Designer</b>	Develop custom data management applications with this software

making it ideal for warehouse, yard or loading dock applications. And the P460 delivers the identical data capture functionality for in-store uses like gift registry, POS scanning, inventory counts and price verification. Both scanners deliver the proven performance and affordability that customers have grown to expect from Symbol.

For more information, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the web at: [www.symbol.com/phaser](http://www.symbol.com/phaser)

# P360 and P460 Specification Highlights

## Physical Characteristics

Dimension:	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:	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 wind blown 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 (preloaded):	Corded: Transmit scanned or keyed in alphanumeric data; 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

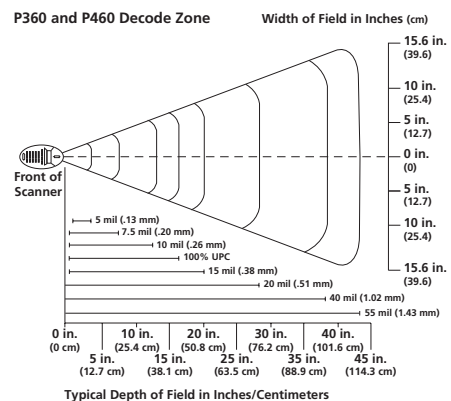
## Accessories

Hands-Free Stand:	Symbol IntelliStand for hands-free presentation scanning. Scanner automatically goes into presentation mode when placed into stand
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## 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 SAMA
Laser Safety:	CDRH Class II, IEC Class 2

**EN410 CE**



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**Corporate Headquarters**  
**Symbol Technologies, Inc.**  
 One Symbol Plaza  
 Holtsville, NY 11742-1300  
 TEL: +1.800.722.6234/+1.631.738.2400  
 FAX: +1.631.738.5990

**For North America, Latin America and Canada**  
**Symbol Technologies**  
 The Americas  
 One Symbol Plaza  
 Holtsville, NY 11742-1300  
 TEL: +1.800.722.6234/+1.631.738.2400  
 FAX: +1.631.738.5990

**For Asia Pacific Area**  
**Symbol Technologies Asia, Inc.**  
 (Singapore Branch)  
 Asia Pacific Division  
 230 Victoria Street #05-07/09  
 Bugis Junction Office Tower  
 Singapore 188024  
 TEL: +65.6796.9600  
 FAX: +65.6337.6488

**Symbol Website**  
 For a complete list of Symbol subsidiaries and business partners worldwide contact us at:  
[www.symbol.com](http://www.symbol.com)

**E-mail**  
[info@symbol.com](mailto:info@symbol.com)

**For Europe, Middle East and Africa**  
**Symbol Technologies**  
 EMEA Division  
 Symbol Place, Winnersh Triangle  
 Berkshire, England RG41 5TP  
 TEL: +44.118.9457000  
 FAX: +44.118.9457000



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