Phaser™ P370 and P470

Scan-Intensive Cordless Data Collection

CORDLESS RF SCANNERS

Cordless RF Scanners with Programmable Architecture

If your business applications demand cordless real-time data capture and transmission, demand the P370 and P470 RF scanners from Symbol Technologies. These high-performance cordless scanners give users the freedom to go wherever data collection is needed—up to 100 ft./30 m or more from the host system, even without direct line of sight. Real-time wireless data capture keeps loading docks, factory floors and warehouses operating at peak efficiency, enabling instant decision-making and seamless communications throughout the enterprise. Ergonomically designed to minimize fatigue in scan-intensive applications, the P370/P470 feature a top-mounted keypad and display for effortless access and increased productivity. Shipped with a free application, users can scan and transmit data, manually key in alphanumeric records, and eliminate repetitive scanning by keying in quantities right out of the box.

For added versatility, the P370/P470 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 onboard computing power. Use MCL-Link communication software to connect the P370/P470 to your host. MCL-Link capabilities include real-time two-way messaging, ODBC database connectivity and the automation of frequent tasks such as monthly application upgrades.

Wireless Real-time Scanning in Any Environment

Available in two configurations, the P370/P470 deliver the cordless scanning performance users have come to expect from Symbol. Sealed to IP54 standards, the P370 is suited for extreme environments and withstands multiple 6 ft./1.8 m drops to concrete and wide temperature fluctuations. The P370 is also available in an Advanced Long Range version that reads 100 mil retroreflective symbols from as far away as 30 ft/9 m. The P470 offers identical data capture functionality for in-store uses including stockroom tasks and oversized item checkout. Both models utilize 2.4 GHz point-to-point radio frequency technology for error-free, reliable data transmission in any environment and without a license.

Easy System Integration

The P370/P470 cradle features integrated RS-232 and Synapse interfaces for connectivity to all popular hosts. The cradle serves as a holder, two-way RF transmitter and battery charging station.

Features	Benefits
Cordless RF scanning	Enables real-time bar code data collection in factory, warehouse, retail environments and wherever cables could restrict movement or limit access
Pre-loaded application	Ready-to-use application allows scanning, data and quantity entries right out of the box
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—enter and view scanned records right out of the box
Programmable architecture	Enables development of customized scanning applications using MCL-Designer
Flash memory	Easy software upgrades in the field

Both the P370 and P470 support 123Scan™. 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 cordless scanners, contact any of the locations listed on the back or visit us at **www.symbol.com**

P370 and P470 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:	P370: Yellow body with dark gray keypad P470: 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
Battery:	1100 mAh Lithium-ion battery charged via the 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 Zones
Print Contrast Minimum:	P370/470: 20% minimum reflectance P370ALR: 40% absolute dark/light reflectance at 650 nm
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
Interfaces Supported:	RS-232, MCL-Link Lite or Symbol Synapse cables (Keyboard wedge, USB, OCIA, Dual RS-232, etc.)

User Environment	
Operating Temperature:	P370: -4° to 122° F/-20° to 50° C P470: 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:	P370: Multiple 6 ft./1.8 m drops to concrete over entire temperature range P470: Multiple 5 ft./1.5 m drops to concrete over entire temperature range
Environmental Sealing:	P370: All components sealed to IP54 against windblown rain and dust
Ambient Light Immunity:	P370/470: Sunlight: 10,000 ft. candles/107,644 LUX Artificial light: 450 ft. candles/4,844 LUX P370ALR: Sunlight: 4,000 ft-candles/ 43,056 LUX Artificial: 450 ft-candles/4,844 LUX

Applications	
Default Application (Preloaded):	Transmit scanned or keyed in alpha-numeric data; key in quantity to eliminate repetitive bar code scanning
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, real time text messaging, built-in CRC error detection and more

Radio Specifications	
Radio Range:	Up to 100 ft./30 m without a direct line of sight; coexists with Spectrum24®, systems
Frequency:	Unlicensed 2.4 GHz point-to-point narrow band, 82 user-selectable channels, no license required
Radio Output:	<10 mW

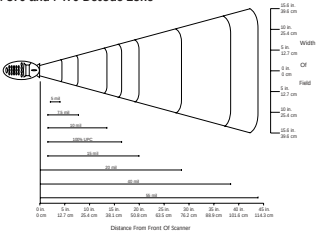
Base Station	
Versions:	PL370 Dark Gray ; PL470 Light Gray
Dimensions:	3.5 in. H x 9.5 in. L x 4 in. W / 8.9 cm H x 24.1 cm L x 10.2 cm W
Power:	Operates from a separate 9V power supply 1.2A
Cables:	RS-232 or Symbol Synapse cables

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

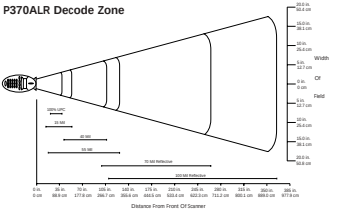
CN410 CE

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

P370 and P470 Decode Zone



P370ALR Decode Zone



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