P370 and P470

symbol ®

Rugged, High-Performance Scanning Goes Cordless

Available in industrial and retail versions, the P370 and P470 family of cordless scanners from Symbol Technologies handles demanding data management, even in extreme environments. 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 P370 is the industrial version for extreme environments while the P470 is ideal for data management in a retail environment. Both versions make even the most difficult jobs go faster, smoother and easier – because there's no cable there are no restraints. Both versions share the cutting-edge industrial design, powerful scan engine technology and rich feature sets.

Wireless Scanning–the Key to Increased Productivity

The P370 and P470 cordless scanners go where the data needs to be managed – up to 100 ft./30 m from your host. That's because they use low-power radio frequency (RF) transmissions that do not require a license to communicate with your host computer.

   The P370 is the industrial-strength cordless scanner for extreme environments that combines mobility, durability and aggressive scanning performance. Use the P370 in factory or warehouse applications where the cable restricts movement and cordless scanning is simply a better solution, in harsh environments where the cable can get damaged and make your scanner system inoperable, and in shipping and receiving applications where the cable denies access.

   The P470 is ideal in retail environments where a cabled scanner limits access beyond the counter area. With the cordless P470 there are no cable restraints so scanning heavy, oversized or bulk items that are difficult to place on the counter at checkout is a breeze!

Greater Convenience and High Performance

The P370 and P470 cordless scanners deliver all the performance you've come to expect in hand-held scanners from Symbol Technologies. The ergonomic contours of the P370 and P470 cordless scanners fit the hand securely and help reduce fatigue – important in scan-intensive applications. The 17-key numeric keypad and easy-to-read two-line by 20-character display are top-mounted for effortless access and visibility. The scanners weigh just 12 oz./336 gm and are rugged and comfortable to use; the P370 withstands repeated 6 ft./1.8 m drops to concrete. The industrial strength P370, sealed to IP54

specifications against windblown rain and dust, operates in a wide temperature range and enables data management in places ordinary scanners could not go before.

Tailor Applications with Ease

Because flexibility is the hallmark of the P370 and P470 cordless scanners, Symbol 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 scanner. The MCL interpreter is preloaded in memory.

Flexible Host Interface

The base station for both versions features an integrated RS-232 and Synapse interface for connectivity to many popular PC, POS and computer terminals so it's easy to integrate the scanners into your existing data collection environment. The base station functions as a holder as well as a battery recharge station. Batteries are recharged within four hours either in the scanner or removed and charged in a separate charger to maximize scanner use. Power-down circuitry conserves battery power by turning the scanner off after successful data transmission.

   The P370 and P470 cordless scanners are backed by Symbol Technologies' worldwide service and support network. With millions of scanners and terminals installed, Symbol is the world leader in bar code-driven data transaction systems. To find out how your company can start managing data using Symbol cordless scanners, contact any of the locations on the back panel, or visit us at **www.symbol.com**

P370 and P470 Specification Highlights

Physical Characteristics

Dimensions:	7 in. H x 9.2 in. W x 3.5 in. D/17.8 cm H x 23.1 cm W x 9 cm D
Color:	P370 Industrial Version: yellow with twilight black P470 Retail Version: cash register white with dark gray
Weight:	12 oz./336 gm
Light Source:	650 nm laser diode
Scan Rate:	36 (±3) scans/sec. (bi-directional)
Print Contrast:	20% minimum reflectance
Keyboard:	17-key keypad, single-stroke numeric, shifted alpha, user-programmable function keys

Performance Characteristics

Decode Capability:	UPC/EAN with supplements, Code 39, Code 39 Full ASCII, Code 128, EAN 128 Codabar, I 2 of 5, Discrete 2 of 5, MSI/Plessey
Interface Type:	RS-232, Keyboard Wedge, Synapse smart cables: Scanner/WandEmulation, RS-232 Single, RS-232 Dual, IBM 46xx, OCIA, Keyboard Wedges, USB and OCR
Battery Power:	Rechargeable 3.6 VDC 1.1 AH lithium-ion battery (green)

User Environment

Ambient Light Immunity:	Sunlight: 10,000 ft.-candles/107,640 lux Artificial light: 450 ft.-candles/4,844 lux
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)
Durability:	P370: Multiple 6 ft./1.8 m drops to concrete P470: Multiple 5 ft./1.5 m drops to concrete
Environmental:	P370 only: All components sealed to IP54 against windblown rain and dust

Radio

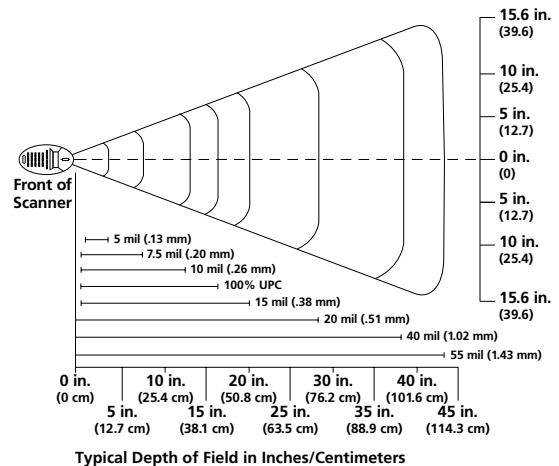|	
Radio Range:	Up to 100 ft./30 m and 100 coexisting systems
Frequency:	Unlicensed 2.4 GHz point-to-point narrow band, 82 user-selectable channels
Radio Power Output:	<10 mW

Base I/F Charger

Versions:	PL 370: Twilight black; sealed to IP54 PL 470: Cash register white with dark gray; no sealing
Interfaces:	RS-232C, Synapse
Charge Time:	4-hour fast charge
Base 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

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

P370 and P470 Decode Zone

Width of Field in Inches (cm)

Front of Scanner

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)

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

Typical Depth of Field in Inches/Centimeters

ⓒN410 CE

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

For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.

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