# Symbol M2000 Cyclone Hands-free bar code scanner 



## FEATURES

Reads 1-D, 2-D, and Composite UCC/EAN and RSS bar code symbologies Capture more data and
"future-proof" your investment

Cyclone uses the latest, brightest visible laser diode technology
Scanner is easy to aim, even in brightest sunlight

Scan pattern switches and mode indicator LEDs are top-mounted for easy viewing Switching scan patterns is easy and convenient for operations with a mix of applications, bar codes and merchandise

## The Symbol Cyclone from Motorola captures

 more data to enhance your applications A smart investment, the innovative Symbol Cyclone scanner is future-ready now, providing the ability to decode existing, new and emerging bar code symbologies instantly. The Cyclone scanner is packed with features that deliver optimum flexibility including next generation scanning technology. As good looking as it is practical, the Cyclone's sleek design complements any store's decor. Large merchandise or small, single or multiple bar code types, this scanner can handle it all. Revolutionary user-selectable scan pattern versatility plus remarkable ease of use and adaptability make the Adaptive "Cyclone" Scanner Series a standout for bar code scanning at point of sale.
## Reads current and new UCC/EAN symbologies with ease

New ways of doing business require new types of bar codes to keep products flowing smoothly from producer to user. The Cyclone scanner was designed to handle new and emerging UCC/EAN-driven symbologies:

The UCC/EAN Reduced Space Symbology (RSS) is a "stacked" linear bar code for items previously too small to be marked. Track previously untrackable data on products so that lot numbers, expiration dates, weights, prices and currency information are included in the bar code.

- Retail General Merchandise: Label items with complete product identification for better management of inventory and profitability.
- Convenience Stores and Food Stores: Encode random quantity and weight products, such as meat, produce and cheeses, with product identification information for better inventory management and to simplify the order and fulfillment process.

The UCC/EAN Composite Symbology (CS) combines the standard linear UPC/EAN/JAN code, a proven tool for POS checkout, receiving and inventory tracking, with a two-dimensional (2-D) PDF417 portable data file that incorporates extended product information.

## Handheld or hands-free

 operationOperators can scan heavy and bulky items without lifting them onto the checkstand; scan smaller items without lifting the scanner.

Built-in, adjustable stand Operators adjust the Cyclone to their preference to optimize efficiency for maximum throughput

- Healthcare: Hospitals, drug stores and pharmacies can trace manufacturing lot numbers on pharmaceuticals and other controlled substances. Caregivers can streamline prescription processing and verify patient ID by scanning patient identification cards.
- Logistics: Gain access to shipping as well as content information at any point in the supply chain.
- Retail Food: Shopkeepers can record purchase data and identification cards with a single scan of the composite code. The identification and shipping data is securely attached to the product - stored on a bar code no bigger than a postage stamp.

Portable Data File (PDF) is a 2-D data file that holds up to 1 kilobyte of data.

- Age Verification: Many authorities now encode the date of birth in the PDF symbol on a driver's license, preventing the sale of alcohol or tobacco products to underage customers.


UCC/EAN Composite Symbology combines 1-D and 2-D scanning capabilities.

- National Identification Cards: Many countries use national ID cards to open credit and telephone accounts and for identification at border crossings.
- Customer Loyalty Cards: Track customers' shopping habits.

Choose the Best Scan Pattern for Your Application At the point of sale, the Cyclone scanner captures bar code data instantly, shortening checkout lines with "point-and-scan" performance on 1-D, 2-D, RSS and CS symbologies.

Cyclone Omni-Directional Scan Pattern: A rotating omni-directional scan pattern reads even truncated bar codes by eliminating scan pattern "holes."

Raster Scan Pattern: The Cyclone's scan pattern automatically covers 2-D and CS symbols for the best scanning performance on damaged and poorly printed bar codes, while eliminating the need for operator training.

Semi Omni Scan Pattern: The "Semi Omni" scan pattern is a combination of the omni-directional and raster scan patterns. This unique pattern has superb decoding performance on extremely truncated bar codes that you find on small items in convenience, drug and specialty stores.

High Density Single Line Scan Pattern: The Cyclone's single scan line appears as a "mini" raster and scans multiple areas of 1-D codes to swiftly and accurately capture data on poorly printed and damaged bar codes. The single line is ideal for reading bar coded menus and pick lists.

Bright LEDs indicate which scan pattern is working. For intuitive aiming accuracy, even in the brightest lighting conditions and for can't miss, single-pass scanning, the laser diode emits a highly visible beam for easy-to-see scan patterns. When you lift the scanner off the counter, it automatically switches from hands-free to handheld mode. The Cyclone immediately adjusts the scan pattern for optimum
handheld data capture. Put the scanner back on the counter and it automatically returns to hands-free mode. If countertop space is at a premium, just place the Cyclone in the optional wall-mount stand.

## Premium Features and Unique Ergonomics Adapt to Many Uses

The Cyclone's adjustable, built-in stand accommodates scanning a wide range of item sizes for efficient throughput. The ergonomically shaped handle fits snugly in the hand to ensure a secure grip. The large, contoured scan trigger is handlemounted for easy point-and-shoot operation. The patented two-finger trigger operates with minimum effort and delivers superior sensory feedback.

There's no need to change the scanner's orientation when changing the scan pattern. All of the scan patterns exit the Cyclone from the large, scratchresistant and deeply recessed window at the front of the scanner. The broad, rounded stand supplies rock-solid support for checkstand or countertop use. For maximum non-slip security, rubber feet cushion the bottom of the scanner.

Ingenious Design Provides Superior Throughput Motorola's attention to detail comes through in design elements such as the twin beepers built into the sides of the Cyclone scanner handle. The scanner beeper is loud enough to be heard by operators working in noisy environments.

Cyclone scanners offer a host of high-performance features for unmatched adaptability at the point of sale. The Cyclone provides direct connections to IBM, USB, RS-232 and our Synapse "smart" cabling that provides connectivity to all popular host terminals. Synapse Smart Cables eliminate the need for separate scanner-to-host controllers. Electronic Article Surveillance deactivation is also an option; locating the deactivation antenna within the scanner saves precious space at the point of sale and eliminates secondary operations.

Advanced Data Formatting, another Motorola breakthrough, enhances Cyclone data capture productivity. No need to modify host-system software to match data input formats. Instead, simply program the Cyclone. The scanner translates the bar code string and, for later tracking, stamps the bar code prefix with time, date and the number of the employee who scanned the data.

Like every scanner from Motorola, the Cyclone is an unbeatable value because it is backed by our global network of service and support from the world leader in bar code-driven data management systems, with millions of scanners and terminals installed.

For more information about the Symbol M2000 Cyclone Series, contact us at +1.800 .722 . 6234 or +1.631.738.2400, or visit us on the Web at: www.symbol.com/m2000


PDF417 bar codes are ideal for age verification applications


The adjustable built-in stand pivots to make scanning items easy - no matter how large or small.


## M2000 Specifications

## Physical Characteristics

| Dimensions: | $7.8 \mathrm{in} . \mathrm{L} \times 3.4 \mathrm{in} . \mathrm{W} \times 5.4 \mathrm{in} . \mathrm{D}$ |
| :--- | :--- |
|  | $198 \mathrm{~mm} \mathrm{~L} \times 86 \mathrm{~mm} \mathrm{~W} \times 137 \mathrm{~mm} \mathrm{D}$ |
| Weight: | $12 \mathrm{oz} . / 340 \mathrm{gm}$ |
| Mounting Options: | Wall-mount stand |
| Durability: | Withstands multiple $4 \mathrm{ft} . / 1.2 \mathrm{~m}$ <br> drops to concrete |

Performance Characteristics

| Light Source: | 630-650-nm laser diode |
| :--- | :--- |
| Scan Pattern: | Single line, 2-D Raster, omni-directional, |

Frame Rate: Omni-directional: $640 \times 22$ frames $/$ sec. Raster: $590 \times 22$ frames $/ \mathrm{sec}$. Single Line: $590 \times 22$ frames/sec.
Optical Resolution: Raster/Single Line: Can decode a 6.6 mil (minimum X-dimension) symbol (PDF417) Y-dimension must be 3x Omni-directional: Can decode a 5.5 mil (minimum X-dimension) symbol
Codes Supported: 1-D Symbology: UPC/EAN/JAN, NW7, Code 128, Code 39 Full ASCII, MSI/ Plessey, Interleaved 2 of 5, Discrete 2 of 5, UCC/EAN, 128, Codabar 2-D Symbology: PDF417; Composite Codes; UCC/EAN, RSS Code Ask about other codes that are supported

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| :--- | :--- |
| Print Contrast: | $25 \%$ minimum reflectance (1-D) |
|  | $35 \%$ minimum reflectance (PDF) |

Interfaces Supported: IBM 468X, 469X; Universal Serial Bus (USB), RS-232C, Wand Emulation, OCR, OCIA, Fujitsu, ICL, NCR, Nixdorf, Omron, TEC, Sharp, Casio POS and Computer

## Cyclone Omnizone



Interfaces Supported Keyboard Wedges from IBM, DEC Telex, (continued): NCR, WYSE, HP and other manufacturers

| User Environment |  |
| :---: | :---: |
| Ambient Light: | Immune to normal artificial indoor and natural outdoor (direct sunlight) lighting conditions. <br> Fluorescent: 450 ft .-candles <br> Incandescent: 450 ft.-candles <br> Mercury Vapor: 450 ft .-candles <br> Sodium Vapor: 450 ft .-candles <br> Sunlight: 8,000 ft.-candles |
| Operating Temp.: | $32^{\circ}$ to $104^{\circ} \mathrm{F}\left(0^{\circ}\right.$ to $\left.40^{\circ} \mathrm{C}\right)$ |
| Storage Temp.: | $-40^{\circ}$ to $140^{\circ} \mathrm{F}\left(-40^{\circ}\right.$ to $\left.60^{\circ} \mathrm{C}\right)$ |
| Humidity: | $5 \%$ to 95 (noncondensing) |
| Power: | 5.2 VDC $\pm 10 \%$ @ 400 mA nominal (1.6 watts nominal) |
| Product Safety: | United States: UL1950, 1995 Worldwide: EN 60950: 1992 +A1, +A2, +A3 IEC 950/European Union Req. Canada: CAN/CSA C22.2\#950-95 |
| EAS Support: | Checkpoint Electronic Article Surveillance |
| Regulatory |  |
| Electrical Safety: | Certified to UL 1950, 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 |
|  |  |

## Cyclone Rasterzone



## M MOTOROLA

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