

Datasheet: DELMONIX DX630 - Omnidirectional Presentation Scanner

Product Overview

“DELMONIX DX630 – Effortless Scanning, Maximum Efficiency.”

The **DELMONIX DX630** is a high-performance hands-free barcode scanner designed to deliver fast, efficient, and reliable scanning in retail and commercial environments. Featuring an ultra-compact and award-winning design, it is ideal for space-constrained counters while maintaining powerful scanning capabilities.

Engineered with an advanced 20-line omnidirectional scan pattern and a high scan speed of up to 1,120 scans per second, the DX630 ensures rapid and accurate barcode capture with minimal effort. Its intelligently designed “sweet spot” enhances first-pass read rates, improving both customer experience and operator productivity.

The scanner’s tiltable head (up to 30°) and ergonomic form factor provide added flexibility, allowing easy scanning of bulky or irregularly shaped items. Combining performance, durability, and modern aesthetics, the DX630 is an ideal solution for businesses seeking efficiency without compromising on design.

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Key Feature Highlights

Designed for high-traffic environments, the DELMONIX DX630 integrates advanced scanning technology with user-centric design for superior performance.

- **Omnidirectional Hands-Free Scanning**

The scanner delivers hands-free, omnidirectional scanning, allowing barcodes to be read from any angle without precise alignment. This significantly improves speed and ease of use, especially in high-volume retail settings.

- **Ultra-Compact, Award-Winning Design**

With its sleek, space-saving form factor, the DX630 is ideal for environments where counter space is limited. Its modern, award-winning design enhances the overall aesthetics of retail checkout areas while maintaining functionality.

- **20-Line Aggressive Scan Pattern**

Equipped with a patented 20-line scan pattern, the scanner ensures aggressive and efficient barcode capture. This multi-line scanning capability increases the likelihood of instant barcode recognition, reducing scan time and improving throughput.

- **Optimized “Sweet Spot” Performance**

The device features an engineered optimal scanning zone (“sweet

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spot”), enabling quick and intuitive barcode placement for maximum first-pass read success. This reduces operator effort and enhances workflow efficiency.

- **Adjustable Scan Head for Flexibility**

The scanner head can be tilted up to 30°, allowing users to easily scan larger or bulky items without repositioning them. This feature improves ergonomics and adds versatility to various scanning scenarios.

- **High-Speed Scanning Performance**

With a scan speed of up to 1,120 scans per second, the DX630 ensures rapid data capture, minimizing wait times and improving customer service efficiency.

- **Ergonomic and Durable Construction**

Built for continuous use, the scanner combines rugged durability with ergonomic design, ensuring long-lasting performance in demanding retail and commercial environments.

Applications

The DELMONIX DX630 is ideally suited for a variety of industries and use cases, including:

- **Retail Checkout Counters:** Fast and efficient billing in supermarkets, convenience stores, and specialty retail
- **Convenience Stores:** Compact solution for limited counter space
- **Light Industrial Use:** Suitable for controlled environments requiring hands-free operation

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General Information	
Parameter	Specification
Image (Pixels)	640 pixels (H) x 480 pixels (V)
Scan Mode	Continuous Scanning, autosense
Prompt Method	Indicator light: Blue light power indicator; Blue light flashing code reading prompt Buzzer: start prompt, read code prompt
Optical & Scanning Performance	
Scan Angle	44° (H), 34° (V)
Turn / Elevation / Declination	Turn ±360°, Elevation ±65°, Declination ±65°
Motion Tolerance	3.8 meters/second
Typical Decode Range	
Barcode	Distance
Scan Range	0–160 mm (EAN13 13 mil, PCS=90%)
Supported Barcode Symbologies	
1D Codes	Codabar, Code 39, Code 32, Interleaved 2 of 5, NEC 2 of 5, Code 93, Straight 2 of 5, Industrial, Straight 2 of 5 IATA, Matrix 2 of 5, Code 11, Code 128, ISBT 128, GS1-128, UPC-A, UPC-E0, UPC-E1, EAN/JAN-13, EAN/JAN-8, ISBN, MSI, GS1 DataBar-Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded
2D Codes	PDF417, QR code, DataMatrix, Aztec Code, Maxi code, Micro PDF417, GS1 Composite coders
Interface	
Interface	USB
Physical Specifications	
Dimensions	145 mm × 101 mm × 98 mm
Weight	295 g
Material	ABS + PC
Cable Length	1.8 m

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