



FM430 Barracuda

Fixed-Mount Scanners



Features

Megapixel camera.

The FM430 Barracuda is a barcode scanning powerhouse. No matter what type of barcode is presented, the megapixel camera allows users to scan 1D and 2D barcodes, including very small ones, with impressive speed and ease.

Snappy, also in less than perfect conditions.

A combination of the IR sensor and the light sensor helps to keep workers moving, even in low light conditions. Its strong, white light ensures barcodes are always well lit.

Handsfree or manual scanning.

Companies looking for automatic scanning to relieve manual labor can set up the FM430 Barracuda for handsfree scanning. Alternatively, a manual trigger button can be used if preferred.

Intelligent programming.

The sensors of the FM430 Barracuda automatically adjust the brightness of supplementary lighting based on the light that reflects off the barcode. This also makes it an optimal solution for scanning from mobile phone screens. Depending on the application, the scanner can be set to optimally read from close and long distance.

Reliable outdoor use.

With an IP rating of 54, this fixed mount scanner can be placed in a housing and used outdoors without worrying about dust or moisture.

Bright laser aimer (optional).

The FM430 Barracuda is available with a red cross laser that makes scanning easy and intuitive, even for the most inexperienced users.

Application scenarios.

Self-service kiosks used in e-commerce, express delivery services, access control, loyalty, mobile payment, events ticket redemption, gaming cash outs, postal services, transport boarding passes, parking ticket machines, production line.

TECHNICAL SPECIFICATIONS

FM430 Barracuda

Data Capture

1D	All major 1D symbologies, including EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code 39, Codabar,UCC/EAN 128, RSS, ITF, ITF-14, ITF6, Standard 25, Matrix 25,COOP 25, Industrial 25, Plessey, MSI Plessey, Code 11, Code93, Code 49, Code 16K.
2D	All major 2D symbologies, including PDF417, QR Code, Data Matrix, AZTEC, CSC, Maxicode, Micro QR, Micro PDF417, GM , Code One.
Aiming	Laser diode (650nm), Green LED (518nm)
Depth of Field Code 39 (5mil)	70 mm - 180 mm
Depth of Field DataMatrix (10mil)	50 mm - 170 mm
Depth of Field EAN 13 (13mil)	55 mm - 360 mm
Depth of Field PDF417 (6.67mil)	55 mm - 160 mm
Depth of Field QR (15mil)	40 mm - 210 mm
Field of View Horizontal	51°
Field of View Vertical	32°
Illumination	White LED
Image Sensor	1280 x 800 CMOS
Minimal Print Contrast	25%
Scan Angle Pitch	±55°
Scan Angle Roll	360°
Scan Angle Skew	±55°
Scan Modes	Sense Mode, Continuous Mode, Level Mode, Pulse Mode
Scan Rate	60 frames per second

Performance

Processor	1 GHz, X1500
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Physical

Current @ 5VDC Operating	276.8 mA (typical), 322.7 mA (max)
Current @ 5VDC Standby	83.3 mA
Dimensions	41.5(W) × 49.5(D) × 24.3(H) mm
Housing	PC, ABS
Input Voltage	5 VDC ±5%
Interfaces	RS-232, USB
Notifications	Beep, LED
Power Supply Input	5 VDC (1.5 A)
Power Supply Output	AC100 to 240 V (50 to 60 Hz)
Weight	75 g

Environmental	
Drop	1.5 m
Electro Static Discharge (ESD)	±14 kV (air discharge), ±8 kV (direct discharge)
Humidity	5% to 95% (non-condensing)
IP Rating	IP54
Software	
Configuration Tools	EasySet
Certifications	
Certifications Hardware	FCC Part15 Class B, CE EMC Class B, RoHS, IEC 60825, IEC 62471, KC
Warranty	
Warranty Standard	5 Years
Accessories	
Accessories Optional	Multiplug adapter, RS-232 cable, USB cable, USB-C cable
Accessories Standard	USB cable, RS-232 cable
What's in the box?	
NLS-FM430L-U, NLS-FM430-U	FM430 Barracuda, 2 meter USB extension cable
NLS-FM430L-00, NLS-FM430-00	FM430 Barracuda, 50 cm direct USB cable
NLS-FM430L-RC, NLS-FM430-RC	FM430 Barracuda, 2 meter RS-232 extension cable, Multiplug adapter

Accessories

Charging/Power	ADP100 Power Supply for HR, FR, and FM Series (ADP100)
Cables	CBL017U RJ to USB-C Cable for HR, FR and FM Series (CBL017U) CBL026U USB Cable for FR and FM series (CBL026U) CBL030UA USB Cable for HR, FM, and FR (CBL030UA) CBL036UA USB Cable for HR, FM, and FR Series (CBL036UA) CBL037R RS232 Cable for HR, FR, and FM Series (CBL037R) CBL042UA USB Cable for HR, FM, and FR Series (CBL042UA) CBL042UA V5.0 USB Cable for FM, and FR Series (CBL042UA V5.0)
Peripherals	EX232 Remora (NLS-EX232-01)