







# FM430 Barracuda

Fixed-Mount Scanners

-  1.5m drop
-  1D & 2D
-  Dual Interface
-  EasySet
-  IP54
-  Laser aimer
-  LED aimer
-  Megapixel
-  OCR
-  Warranty 5 Years



## 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.

**5** Years Full Warranty



## 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, Pulse Mode, Continuous Mode, Level Mode   |
| Scan Rate                         | 60 frames per second  |

#### Performance

|           |              |
|-----------|--------------|
| Processor | 1 GHz, X1500 |
|-----------|--------------|

#### 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               | USB, RS-232                        |
| 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 | CE EMC Class B, FCC Part15 Class B, IEC 60825, IEC 62471, RoHS, KC |
|-------------------------|--|

## Warranty

|                   |         |
|-------------------|---------|
| Warranty Standard | 5 Years |
|-------------------|---------|

## Accessories

|                      |   |
|----------------------|---|
| Accessories Optional | USB cable, USB-C cable, Multiplug adapter, RS-232 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)  
CBL025R RS232 Cable for FR and FM Series (CBL025R)  
CBL026U USB Cable for FR and FM series (CBL026U)  
CBL030UA USB Cable for HR12, HR32 and HR52 Series (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)

### Newland AIDC EMEA

Feel free to contact us or a partner near you.  
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