



FM550

Industrial Fixed-Mount



1D & 2D



CMOS



Dual Laser Aimer



IP65



RS232



USB



Warranty
2 Years



Features

Wide Viewing Angle and Near Field Scanning

With a wide viewing angle, the FM550 scans both 1D and 2D barcodes from close-up, making this fixed-mount scanner a perfect choice for lab and IVD applications. It enables efficient and error-free data capture even in situations where the barcodes are not placed directly in front of the scanner.

Effortless Integration

The FM550 features an ultra-compact design, making its integration into your IVD devices seamless. Its miniature form factor ensures a hassle-free and space-efficient installation, allowing for a smooth and efficient workflow in your laboratory automation processes.

Image Capture

In addition to barcode scanning, the FM550 is equipped with image capture capabilities. Whether documenting sample conditions, recording experimental results, or capturing specimen images, this feature enhances data collection and analysis, improving the accuracy and efficiency of research and diagnostic procedures.

High Precision Scanning

The FM550 is equipped with dual laser aiming, a feature that simplifies device positioning during installation. This dual laser system provides an easy and convenient way to align the scanner with the intended target, ensuring precise and accurate data capture. It streamlines the setup process for IVD integration, saving you valuable time and effort.

Swift Data Transmission

The FM550 supports high-speed data transmission to the host system via the USB interface. This quick data transfer capability ensures that your lab automation processes remain efficient and responsive. It eliminates bottlenecks in data transfer, allowing for swift and seamless integration with your IVD devices.

Rugged Durability

The FM550 features a rugged metal housing that is sealed to an IP65 rating. This ensures the scanner's durability, even in challenging laboratory environments. The IP65 sealing not only protects the internal components from dust and water but also enhances the overall security and longevity of the device, making it a robust choice for laboratory automation.

2 Years Full Warranty



TECHNICAL SPECIFICATIONS

FM550

Data Capture

1D	Code 128, EAN-8, EAN-13, EAN-13 Addendum, UPC-E, UPC-A, Interleaved 2/5, Code 39, Codabar, Code 93, UCC/EAN-128
2D	PDF417, Data Matrix, QR Code, Aztec

Aiming	Red laser (650nm)
Beam Exit	Scan window with lateral beam exit
Depth of Field Code 128 (8.34mil)	45 mm - 90 mm
Depth of Field Code 39 (6.67mil)	45 mm - 85 mm
Field of View Horizontal	52°
Field of View Vertical	76.5°
Illumination	White LED (3000K)
Image Sensor	1280 x 800 CMOS
Minimal Print Contrast	50%
Resolution	≥5mil
Scan Rate	60 frames per second

Physical

Current @ 5VDC Operating	141.35 mA RMS (typical); 397.54 mA (max)
Dimensions	54(W)× 27.5(D)× 25.5(H) mm
Housing	Aluminium
Input Voltage	5 VDC ±5%
Interfaces	USB, RS-232
Notifications	Beep, LED
Power Consumption	9 W
Weight	107 g

Environmental

Ambient Light	≤5000 lux
Humidity	5% to 95% (non-condensing)
IP Rating	IP65
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)

Software

Configuration Tools	EasySet
---------------------	---------

Certifications

Certifications Hardware	IEC 60825-1, FCC, RoHS 2.0, IEC 62471, CE, EN 50689
-------------------------	---

Warranty

Warranty Standard	2 Years
-------------------	---------



Newland AIDC EMEA

Feel free to contact us or a partner near you.
info@newland-id.com - newland-id.com

Specifications are subject to change without notice
© Newland AIDC EMEA 2026 - All rights reserved