**1D & 2D**  **CMOS**  **Dual Laser Aimer**  **RS232**  **USB**  **IP65**

**Warranty 2 Years**

## FM550
### IVD Scanners

## 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.

## Suggested industries

**IVD & Laboratory**  **Healthcare**

### Data Capture

| | |
|---|---|
| 1D | All major 1D symbologies |
| 2D | All major 2D symbologies |
| Image Sensor | 800*1280 CMOS |
| Aiming | 650nm red laser aiming LEDs*2; class 2 consumer laser product; <10mW |
| Illumination | 3000K white LED |
| Resolution | ≥5mil |
| Scan Rate | 780 scans/ s |
| Depth of Field | 45-90mm |
| Field of View | Horizontal 52°, Vertical 76.5° |
| Beam Exit | Scan window with lateral beam exit |
| Minimal Print Contrast | 50% |

### Physical

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

### Environmental

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

### Software

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

### Certifications

| | |
|---|---|
| Hardware | CE/FCC; LED Safety: EN 62471: 2008; Laser Safety: EN 60825-1:2014+A11: 2021, EN 50689:2021,IP65/ RoHS 2.0 |

### Warranty

| | |
|---|---|
| Standard | 2 years |

---

**Newland**
SCANNING MADE SIMPLE