



1D



CCD



Fast  
Motions



Wide  
Scan  
Angle



Wide  
Voltage  
5-24V



RS232



IP54



Warranty  
2 Years



**FM510-H**  
IVD Scanners

## Features

### High-Speed Scanning for Boosted Throughput

With a high scanning speed of 780 scans per second, the FM510-H boosts your data collection efficiency. Higher speed allows to accelerate the track and trace process and handle more samples. The FM510-H is perfect for in-vitro diagnostics and laboratory applications, where speed is critical for accurate and timely results.

### Vertical and Horizontal Configurations

With both vertical and horizontal configurations available, the FM510 Series offers adaptability in its integration within laboratory environments. These options guarantee a seamless alignment with your existing lab setup and equipment, allowing for optimal use of scanning technology within your workspace.

### Wide Angle for Close-Up Scanning

The FM510-H features a wide scan angle, ideal for laboratory use where vials with lengthy 1D barcodes and close-up scanning are

common requirements. It offers a depth of field, covering distances from 25mm to 105mm, allowing you to scan up to three rows of lab vials.

### Ultra Compact & Durable Design

The compact design of the FM510-H ensures seamless integration with your existing lab equipment. Moreover, the FM510-H is encased in a robust IP54-sealed housing, which makes it capable of withstanding the harsh demands of laboratory environments and safeguards the longevity of your devices.

### Wide Voltage Input

The FM510-H features an extensive input voltage range from 5 to 24VDC, offering adaptability to various power sources and global electrical standards. This versatility ensures stable and reliable operation without the need for additional power converters.

## Suggested industries



IVD &  
Laboratory



Healthcare

# FM510-H Technical specifications

## Data Capture

1D	All major 1D symbologies
Image Sensor	2500 CCD
Illumination	615nm red LED
Resolution	≥6mil
Scan Rate	780 scans/s
Depth of Field	25-105mm
Field of View	68°
Beam Exit	Scan window with front beam exit
Minimal Print Contrast	25%

## Physical

Current @ 5VDC Operating	540mA RMS (typical); 850mA (max)
Current @ 24VDC Operating	117mA RMS (typical); 250mA (max)
Dimensions (mm)	62.5(W) × 50.5(D) × 21.5(H) mm
Housing	Plastic
Input Voltage	5-24VDC±5%
Interfaces	RS-232
Notifications	LED indicator
Power Consumption	< 3W
Weight	120g

## Environmental

Ambient Light	≤5000lux
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5%~95% (non-condensing)
IP Rating	IP54

## Software

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

## Certifications

Hardware	CE/FCC/UL; IEC62471: 2006 for LED safety; RoHS 2.0
----------	--

## Warranty

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

### Newland EMEA HQ

+31 (0) 345 87 00 33

[info@newland-id.com](mailto:info@newland-id.com)

[newland-id.com](http://newland-id.com)

Feel free to contact us or a partner near you

visit [newland-id.com/partners](http://newland-id.com/partners)

Specifications are subject to change without notice

© Newland EMEA 2023, all rights reserved