

FIXED MOUNT BARCODE SCANNER

The NLS-FM515 series products are 1D linear barcode scanners for medical applications, mainly integrated into testing instruments in laboratories, hospitals and assembly lines. It delivers fast and reliable reading of 1D printed barcodes on long-distance test tubes or reagent bottles. The NLS-FM515 series includes NLS-FM515-V (lateral beam exit) and NLS-FM515-H (front beam exit), distinguished by the direction of the beam exit.

The NLS-FM515 series are mainly applied in IVD instruments, such as a rotating tube, double-circle turntables and multi-row tube holders.

FEATURES

 Ultra-High Scan Speed and Motion Tolerance

780 scans per second.

Suitable for IVD instruments fast putting in and high speed turntables.

• Specialized Algorithm

Optimized decoding algorithm for the medical industry.

Minimize reading errors with high decoding accuracy.

Ultra-Compact Design

This miniature barcode scanner is easily integrated into the stand-alone equipment.

O IP54-Sealed Housing

The metal housing is sealed to an IP54 rating, durable and secure.

O Far-Field Reading

Excellent far-field reading enables long-distance scanning up to four to eight rows or double-circle turntable.

• Wide Viewing Angle

Wide scan range for near-field reading.

O Wide Voltage Input

Support voltage ranges from 5 to 24VDC.









IP sealing

	2500 CCD 615nm red LED	
	GIERRA ROOM LED	
	olonim red LeD	
	68°	
FM515-V	Scan window with lateral beam exit	
FM515-H	Scan window with front beam exit	
	780 scans/s	
FM515-V	25-180mm	
FM515-H	35-190mm	
	≥6mil	
1D	Codabar, Code 128, EAN-13 Addendum, Code 39, Code 93, GS1-128 (UCC/EAN 128), EAN-8,	
	EAN-13, UPC-A, UPC-E, Interleaved 2/5	
	25%	
	5-24VDC±5%	
	< 3W	
Operating	292mA RMS (typical) 850mA (max.)	
	66mA RMS (typical) 250mA (max.)	
	RS-232	
	Status indicator	
	Aluminium	
FM515-V	62.5(W)×57(D)×21.5(H)mm (max.)	
FM515-H	62.5(W)×50.5(D)×21.5(H)mm (max.)	
	166g	
	0°C to 50°C (32°F to 122°F)	
	-40°C to 50°C (-40°F to 122°F)	
	5% to 95% (non-condensing) IP54	
	≤5000lux	
	IEC62471: 2006 for LED safety RoHS 2.0	
	FM515-V FM515-H 1D Operating FM515-V	

I For depth of field based on resolutions, please refer to Scanning Range. Specifications are subject to change without notice.

Version: V1.1



Specifications are subject to change without notice.

Version: VI.1

The following table lists the interface pinouts.

Wire Color	Signal	I/O	Function
Red	5-24VDC	Power supply	Power supply
Orange	SW IN	I	Control signal input
Purple	GND	-	Power supply ground
Black	SW OUT	0	Control signal output
White	RS-232 RXD	I	RS level 232 receive data
Green	RS-232 TXD	0	RS level 232 transmit data
Yellow	FE/Shield	-	Shield



Specifications are subject to change without notice.

Version: V1.1



Dimensions: 62.5(W)×57(D)×21.5(H)mm (max) (FM515-V)



Dimensions: 62.5(W)×50.5(D)×21.5(H)mm (max) (FM515-H)

Specifications are subject to change without notice.

Version: VI.1

Newland AIDC

Add: No.1 Rujiang West Rd., Mawei, Fuzhou, Fujian 350001, China Tel: +86-591-83979500 Fax: +86-591-83979216 Email: info@nlscan.com Web: www.newlandaidc.com

Asia Pacific

Taiwan: Add: 7F-6, No. 268, Liancheng Rd., Jhonghe Dist. 235, New Taipei City,Taiwan Tel: +886 2 7731 5388 Email: info@newland-id.com.tw

Europe & Middle East

Add: Rolweg 25, 4104 AV Culemborg, The Netherlands Tel: +31 (0) 345 87 00 33 Email: sales@newland-id.com Tech Support: tech-support@newland-id.com North America & Latin America Add: 46559 Fremont Blvd., Fremont, CA 94538, USA Tel: +1 510 490 3888 Fax: +1 510 490 3887 Email: info@nlscan.com

