NLS-FM50

Fixed Mount Barcode Scanner

- ◆ IR/Light Triggers
- ◆ AEC
- ◆ IP54-sealed Housing
- ◆ Unmatched Reading Performance
- ◆ 1.5m Drop Resistance

Features

◘ IR/Light Triggers

The combination of IR sensor and light sensor exhibits an improved sensitivity in activating the scanner to scan barcodes as they are presented, to achieve higher throughput and productivity.

◘ Automatic Exposure Control (AEC)

The sensors in the NLS-FM50 automatically adjust the brightness of supplementary lighting based on the light reflected off barcode.

◘ IP54-sealed Housing

The NLS-FM50 is environmentally sealed to an IP54 rating to prevent dust, moisture and other contaminant from entering it.

◘ Unmatched Reading Performance

Armed with Newland's fifth-generation of UIMG® technology, the NLS-FM50 is capable of reading 1D as well as high-volume 2D barcodes on the screen covered with protective film.

◘ 1.5m Drop Resistance

The scanner withstands multiple 1.5m drops to concrete (for six sides, three drops per side).

Application Scenarios

Self-service cabinets used in e-commerce, express delivery services and smart homes; barrier gates; O2O.

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Category	Spec	Sub	Value
Performance	Image Sensor		CMOS+CCD
	Pixels		752*480 CMOS + 2500 CCD
	Symbologies	2D	PDF417, Data Matrix, QR Code
		1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128 (FNC1, FNC2, FNC3), Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar (RSS-Expand, RSS-Limited, RSS-14), Code 39, Code 11, MSI-Plessey, Plessey, etc.
	Resolution		≥5mil
	Typical Depth of Field	Code 128	50-400mm (10mil)
		Code 39	70-350mm (10mil)
		QR Code	70-210mm (15mil)
	Light Source		Red LED
	Scan Mode		Sense mode/ Continuous mode
	Scan Angle	Pitch	±55°@ 0°Roll and 0° Skew
		Roll	±360°@ 0°Pitch and 0° Skew
		Skew	±55°@ 0°Roll and 0° Pitch
	Symbol Contrast		≥20%
	Interface		RS-232, USB
Physical/ Electric	Dimensions (L×W×H)		76×51×28mm
	Weight		100g
	Notification		Beep, LED indicator
	Current	Operating	380mA
		Standby	180mA
Environmental	Operating Temperature		-20℃~70℃
	Storage Temperature		-40℃~70℃
	Humidity		5%~95% (non-condensing)
	ESD		±14 kV (air discharge), ±8 kV (direct discharge)
	Drop		1.5m drops to concrete (for six sides, three drops per side)
	Sealing		IP54
Certifications			FCC Part15 Class B，CE EMC Class B
Accessories	Cable (direct connection)	USB	Used to connect the NLS-FM50 to a host device.
		RS-232	Equipped with a power connector; used to connect the NLS-FM50 to a host device.
	Power Adapter		Used to provide power for the NLS-FM50. Output: DC5V, 1.5A; Input: AC100~240V, 50~60Hz

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