NLS-FR2051
Desktop Barcode Scanner

CMOS | **1D** | **2D**

USB | **RS-232**

Features

■ **Snappy On-screen Barcode Capture**
Armed with Newland's fifth-generation of **UIMG®** technology, the NLS-FR2051 is capable of reading 1D as well as high-volume 2D barcodes on the screen even covered with protective film.

■ **Large Scan Window**
The NLS-FR2051 provides a large scan window to further enhance the user experience.

■ **Outstanding Power Efficiency**
The advanced **NLDC** technology incorporated in the scanner helps reduce the power consumption and prolong the service life of the device.

■ **Diffuse Illumination**
The NLS-FR2051 offers a diffuse and extremely even illumination which closely resembles natural light to make it possible for rapid capture of barcodes on a screen at its minimum brightness level.

■ **Improved Sensitivity**
The NLS-FR2051 is able to speedily "sense" and decode barcodes that are presented to it when in standby mode, markedly increasing throughput and productivity.

Application Scenarios

Barcode-based payment, group purchase verification, customer service desks.

Desktop Barcode Scanner

Performance	Image Sensor		640×480 CMOS
	Illumination		White LED
	Symbologies	2D	PDF417, Data Matrix, QR Code, Chinese Sensible Code.
		1D	EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey, etc.
	Scan Mode		Sense mode, Continuous mode
	Resolution*		≥4mil
	Scan Window		52mm×69mm
	Scan Angle**		Pitch: ±40°, Roll: 360°, Skew: ±35°
	Min. Symbol Contrast*		25%
	Field of View		Diagonal 68°, Horizontal 54°, Vertical 42°
Mechanical/ Electrical	Interfaces		RS-232, USB
	Dimensions		89.5(W)×115(D)×105(H)mm
	Weight		282g
	Notification		Beep, LED indicator
	Operating Voltage		5VDC±5%
	Current@5VDC	Operating	112.7mA (typical), 173.6mA (max.)
		Standby	108mA
Environmental	Operating Temperature		-20℃ to 60℃ (-4℉ to 140℉)
	Storage Temperature		-40℃ to 70℃ (-40℉ to 158℉)
	Humidity		5%~95% (non-condensing)
	ESD		±8 KV (air discharge); ±4 KV (direct discharge)
	Ambient Light		0~100,000lux
	Sealing		IP42
Certifications			FCC Part15 Class B, CE EMC Class B
Accessories	Cable	USB	Used to connect the FR2051 to a host device.
		RS-232	Used to connect the FR2051 to a host device.
	Power Adapter		DC5V power adapter to power the FR2051 with RS-232 cable.

*Test conditions: T=23℃; Illumination=300lux using incandescent lamp; sample barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23℃; Illumination=300lux using incandescent lamp:
      2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8.

Specifications are subject to change without notice.   Version: V1.0

Newland