NLS-HR100 series

Hand-held CCD Scanner

A general-purpose, high-performance CCD hand-held scanner for 1D barcode scanning, suitable for most bar code scanning needs.
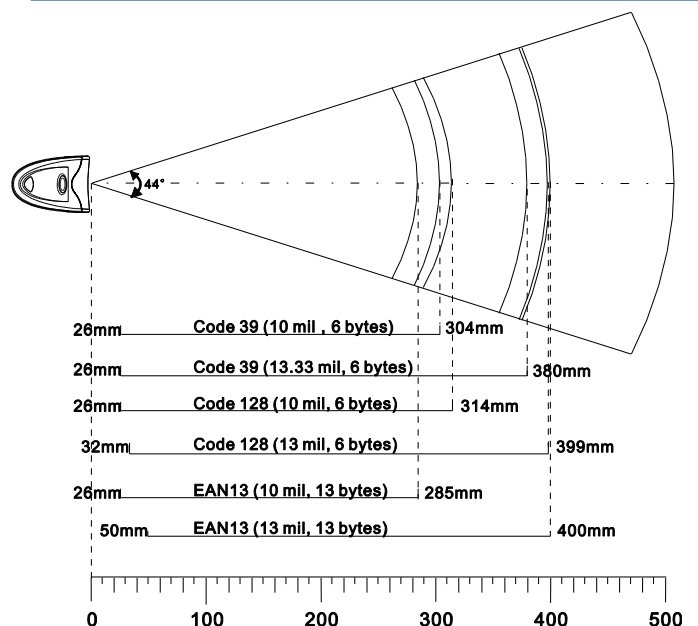
Product Features

● **Durable and Easy to Operate**

This is well-designed, ergonomic and high-performance hand-held CCD scanner can be used in various applications such as retail, logistics, office automation and many more. With a scan speed of 300 scans/per second and a decode distance of more than 30cm, it is a solid (state) alternative to hand-held laser scanning.

● **Advanced Technology**

Includes core-technology **UIMG®** , which is independently designed and manufactured by Newland Auto-ID. **UIMG®** technology includes the optical, CMOS, CCD,digitizer, decoder, image processing & embedded systems. The scanner supports all global standard 1D barcode symbologies. Its' reading performance reaches and exceeds global standards. By using the accessories provided, the user can ideally set up the scanner to its user environment.
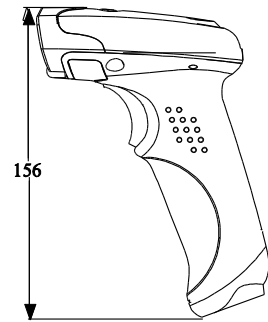
Depth of Field

26mm	Code 39 (10 mil , 6 bytes)	304mm
26mm	Code 39 (13.33 mil, 6 bytes)	380mm
26mm	Code 128 (10 mil, 6 bytes)	314mm
32mm	Code 128 (13 mil, 6 bytes)	399mm
26mm	EAN13 (10 mil, 13 bytes)	285mm
50mm	EAN13 (13 mil, 13 bytes)	400mm

44°

0   100   200   300   400   500

Specifications

Dimension (Unit: mm)

Left View

Front View

Top View

Performance		
Image Sensor		Linear CCD 2500 pixels
Interface		USB-HID, True RS232, TTL level RS232, Keyboard Wedge
Symbologies		Code128, EAN-13, EAN-8,Code39,UPC-A,UPC-E, Codabar, GS1 Databar, Interleaved 2 of 5, ISBN, Code 93 etc.
Precision		≥ 5mil(Condition: PCS=0.9, testing code: Code 39)
Light Source		Visible LED Diode 620 nm
Scanning Speed		300 scans per second
Depth of Scan Field		25mm-400mm
Print Contrast Signal		≥ 30%
Sensitivity**	Pitch	±55°@ 0°Roll and 0° Skew
	Roll	±25°@ 0°Pitch and 0° Skew
	Skew	±75°@ 0°Roll and 0° Pitch
Illumination		0 ~ 80,000 LUX

Mechanical/ Electrical		
Power Consumption		0.75W (Max)
Voltage		DC 5.0V
Current	Peak	150mA
	Working	120mA
	Idle	45mA
Colours		Black OR White
Weight		105g

Environment	
Operate Temperature	-0℃ to + 50℃
Storage Temperature	-40℃ to + 60℃
Humidity	0 to 95% relative humidity(non-condensing)
Drop	1.5 m drops to concrete

Certifications
FCC Part15 Class B, CE EMC Class B

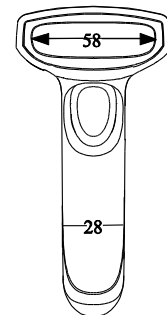| Accessories		
Bracket		The bracket for HR100, the HR100 could be mounted in the bracket.
Flex Cable	RS232 Cable	This cable connects to the RS232 port of HR100 with a RJ45 port. With a standard female RS232 port to connect to standard male RS232 port. With a power port to accept power adapter supply.
	USB Cable	This cable connects to the USB Slave port of HR100 with a RJ45 port. With a standard USB Slave port to connect to standard USB Host port.
	PS/2 Cable	This cable connects to the KBW port of HR100 with a RJ45 port. With a PS/2 Host port.
Power Adapter		The power adapter for HR100 by the RS232 Cable. Output: DC 5V, 2A; Input: AC100~240V, 50~60HZ.

**Test Condition:

Code39: 3 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 0.8 ; Barcode Height = 11mm; istance = 120mm; T=23°C; Illumination= 200 LUX
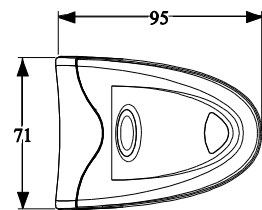
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