

ST10-70 Wired Series Specification

Physical Characteristics

Size	92mmx75mm x 184 mm(L*W*H)
Weight	260g
Input Voltage	DC 5V±5%
Working Current	290mA
Stand-by Current	40mA
Color	Blue+Black
Interface	USB HID Keyboard/USB VCP/RS232
Indicator	LED Indicator/Buzzer/Vibration

Performance Characteristics

Light Source	White LED
Aim Light Source	Red cross laser
Field of View	SR&DL: Horizon: 42°, Vertical: 32° WA: Horizon: 52°, Vertical: 40°
Sensor Resolution	1280 x 960 pixels
Min Print Contrasts	Min reflection difference 25%
Scan Angle	Tilt Angle: -60° to 0°, 0° to +60° Skew Angle: -60° to 0°, 0° to +60° Rotate Angle: -180° to 0°, 0° to +180°
Reading Accuracy	1D Linear: 2.5 mil(WA&DL) -3 mil (SR) PDF: 3 mil(WA&DL) -6.6 mil (SR) Datamatrix: 6mil (WA&DL) -7.5 mil (SR)

Laws and Regulations

Environmental parameters	Compliance with EU RoHS
Electrical Safety	EU Security Law: EN 62368-1:2014+ EN 62479: 2010 + ETSI EN 301 489-1 V2.1.1 (2017-02) + ETSI EN 301 489-17 V3.1.1 (2017-02)+ETSI EN 300 328 V2.1.1 (2016-11) U.S. Security Law: FCC Part15 Subpart C 2018, Section 15.247

Working Environment

Temperature	-20°C至50°C/-4°F 至 122°F -40°C至70°C/-40°F 至 158°F																												
Humidity	0-95% (No condensation)																												
Drop Test	Scanner: Can withstand 50 times drops of falling from 2 meters to concrete surface																												
Tumble Test	Can withstand 5000 rolls within 1 meter																												
Leakproofness Grade	IP65																												
Barcode Reading Distance Range	<table border="1"> <thead> <tr> <th></th> <th>SR</th> <th>WA</th> <th>DL</th> </tr> </thead> <tbody> <tr> <td>Code 39 (3 mil)</td> <td>13 - 22cm</td> <td>5 - 18cm</td> <td>6.5 - 20cm</td> </tr> <tr> <td>Code 39 (5 mil)</td> <td>8.5 - 36cm</td> <td>3 - 24cm</td> <td>3.5 - 29cm</td> </tr> <tr> <td>Data Matrix (10 mil)</td> <td>10 - 28cm</td> <td>4 - 20cm</td> <td>7.5 - 26cm</td> </tr> <tr> <td>EAN-13 (13 mil)</td> <td>4.5 - 74cm</td> <td>3.5 - 37cm</td> <td>4.5 - 42cm</td> </tr> <tr> <td>Data Matrix (15 mil)</td> <td>6.5 - 40cm</td> <td>3 to 25cm</td> <td>5.5 - 32cm</td> </tr> <tr> <td>Code 39 (20mil)</td> <td>Up to 110cm</td> <td>Up to 60cm</td> <td>Up to 60cm</td> </tr> </tbody> </table>		SR	WA	DL	Code 39 (3 mil)	13 - 22cm	5 - 18cm	6.5 - 20cm	Code 39 (5 mil)	8.5 - 36cm	3 - 24cm	3.5 - 29cm	Data Matrix (10 mil)	10 - 28cm	4 - 20cm	7.5 - 26cm	EAN-13 (13 mil)	4.5 - 74cm	3.5 - 37cm	4.5 - 42cm	Data Matrix (15 mil)	6.5 - 40cm	3 to 25cm	5.5 - 32cm	Code 39 (20mil)	Up to 110cm	Up to 60cm	Up to 60cm
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Decoding Ability

1D	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D	AztecCode, ChinaHanXinCode, DataMatrix, Maxi-Code, MicroQRCode, QRCode PostalCodes: AustralianPost, BritishPost, ChinaPost, IMB, JapanesePost, KIXPost, KoreaPost, PlanetCode, Postnet, Royal Mail Code(RM4SCC) StackedCodes: EAN/JAN Composites, GS1 DataBar Composites, GS1 DataBar Expanded Stacked, GS1Data Bar Stacked, GS1 DataBar Stacked Omnidirectional, MacroPDF, MicroPDF417, PDF417, UPCA/EComposites

Accessories

Standard accessories	Barcode scanner, Data cable, Manual, Power adapter(optional for serial port)
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