

QuickScan® QS6500

Linear Imager

Data Sheet



Features:

- Aggressive linear imaging performance with up to 38 cm / 15" reading on 100% UPC labels
- Supports RSS and PDF-417 for future industry compatibility
- 2005 Sunrise compliant
- Multi-interface solution supports all popular host terminal interfaces
- Flash memory for easy software upgrades
- Built tough to withstand common POS abuse for many years
- Attractive, yet durable design to complement your point-of-sale

Mechanical

Dimensions

Height: 16.5cm / 6.0"

Width: 7.4cm / 2.9"

Length: 9.9cm / 3.9"

Weight: 181.4 g / 6.4 oz

Environmental

Temperature Rating

Operating: 0° to 50°C / 32° to 122° F

Storage: -40° to 70° C / -40° to 158° F

Humidity:

Operating: 5 to 95% NC

Storage/Transport: 5 to 95% NC

Vibration: Meets MIL STD-810E

Mechanical Shock: Withstands 50 drops from 15m / 5' to concrete

ESD Protection: Functional after multiple 25kv discharges.

Water & Dust: IEC529 Rating IP52DW

Electrical

Operating Voltage: +4.5 to 14VDC ±5%

Operating Current: 300mA @ 5VDC

Idle Current: 200mA @ 5VDC

Optical

Ambient Light Immunity

Artificial & Sunlight: 86,000 Lux

Light Source: 630nm Visible Red Diode

Scan Rate: 450 scans/sec max

Sensor: 2048 pixel linear imager

Scan Width: 16.5cm / 6.3" @ 178cm / 7' from nose

Resolution: 5 mils / .13mm

Print Contrast: 30% or greater

Pitch: ±60°

Skew: ±55°

Depth of Field: Refer to Chart below

DEPTH OF FIELD Range Comparisons		
LABEL DENSITY	RANGE*	
	1D MODELS	PDF MODELS
5 mil Linear	51 - 127 cm / 2.0 - 50"	5 - 11.4 cm / 2.0 - 4.5"
7.5 mils	2.5 - 178 cm / 10 - 70"	2.5 - 16.2 cm / 10 - 6.0"
10 mils	0 - 30.5 cm / 0 - 12"	0 - 26.7 cm / 0 - 10.5"
13 mils / 100% UPC	0 to 38 cm / 0 - 15"	0 - 33 cm / 0 - 13"
20 mils	Up to 61.0 cm / 24"	Up to 53.3 cm / 21"
40 mils	Up to 101.6 cm / 40"	Up to 89 cm / 35"

* Minimum distance determined by symbol length and scan angle.
Printing resolution, contrast, and ambient light dependent.

Decoding Capability

1D Versions

- UPC A, E / EAN 8, 13 / JAN 8, 13
- Add-ons (sub 2 or P2, sub 5 or P5 & C128)
- RSS-14, Expanded, Stacked, Limited
- ISBN / Bookland EAN
- Code 39 (with full ASCII)
- Pharmacode 39
- Code 128
- Code 93
- Interleaved 2 of 5
- Standard 2 of 5
- IATA
- Code 16K
- Code 11
- Codabar/NW7
- UK/Plessey
- MSI/Plessey

PDF Models support these additional symbologies:

- RSS Composites
- PDF-417
- Micro-PDF

Communications

- RS-232
- Keyboard Wedge
- IBM 46XX
- IBM USB
- USB

Safety & Regulatory

Electrical: Complies to EN60950, CSA60950, UL60950

Emissions: Complies to: FCC-A; EN 55022-B; BSMI 13438; AS/NZS 3548; VCCI-B; ICES-003

Laser Classification: IEC 60825 Class 1 LED

Restriction of Hazardous Substances: Complies to EU RoHS



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QuickScan® QS6500BT

Linear Imager Featuring **Bluetooth®** Wireless Technology



Features:

- Aggressive linear imaging performance with 450 scans per second
- Bluetooth certified wireless communication with 30' / 9.1 m range
- Upright charging cradle position enables hands-free scanning
- Out of range anti-theft alarm
- Durable design is built tough to withstand common abuse for many years
- Flash memory for easy software upgrades
- Multi-interface base station supports all popular host terminal interfaces
- Supports RSS and PDF-417 for future industry compatibility
- User replaceable lithium-ion battery
- More than 33,000 scans per charge.

Mechanical

Dimensions	Scanner	Base Station
Height	18.0 cm / 7.1"	74 cm / 2.9"
Width	74 cm / 2.9"	9.4 cm / 3.7"
Length	11.2 cm / 4.4"	15.5 cm / 6.1"
Weight	226.8 g / 8.0 oz	340.2 g / 12.0 oz

Environmental

Temperature Rating

Operating: 32° to 122° F / 0° to 50° C

Storage: -40° to 158° F / -40° to 70° C

Humidity

Operating: 5 to 95% NC

Storage/Transport: 5 to 95% NC

Shock

Withstands multiple 1.5 m / 5' drops to concrete

Vibration: Meets MIL-STD-810E

Water & Dust: IEC 60529 rating IP52DW

Electrical

Operating Voltage: +4.5 to 14VDC ±5%

Current

Operating: 220mA @ 5VDC or 120 mA @ 10V

Charging: 1,200mA @ 5VDC or 480 mA @ 10V

Battery: Li-Ion 800 mAH, user replaceable

Charge: via Cradle, full charge in 2.5 hours

Scans per charge: over 33,000

Optical

Ambient Light Immunity

Artificial & Sunlight: 80,000 Lux

Light Source: 630nm Visible Red Diode

Scan Rate: 450 scans/sec max

Sensor: 2048 pixel linear imager

Scan Width: 16.5 cm / 6.3" @ 17.8 cm / 7" from nose

Depth of Field: Refer to Chart below

Resolution: 13 mm / 5 mils

Print Contrast: 30% or greater

Pitch: ±60°

Skew: ±55°

DEPTH OF FIELD Range Comparisons	
LABEL DENSITY	RANGE*
5 mils	5 - 11.4 cm / 2.0 - 45"
75 mils	2.5 - 16.2 cm / 10 - 60"
10 mils	0 - 26.7 cm / 0 - 105"
13 mils / 100% UPC	0 - 33 cm / 0 - 13"
20 mils	53.3 cm / Up to 21"
40 mils	89 cm / Up to 35"

* Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

Data Sheet

Wireless Communications

Protocol: Bluetooth 1.2 certified Class 2

Frequency: 2.4 GHz Spread Spectrum with Adaptive Frequency hopping

Range: Class 2: up to 10 m / 30'

Host Communications

- RS-232
- Keyboard Wedge
- IBM 46XX
- IBM USB
- USB
- Wand Emulation

Decoding Capability

- UPC A, E / EAN 8, 13 / JAN 8, 13 Add-ons (sub 2 or P2, sub 5 or P5 & C128)
- Codabar/NW7
- Code 11
- Code 16K
- Code 93
- Code 128
- UK/Plessey
- MSI/Plessey
- Code 39 (full ASCII)
- RSS-14, Expanded, Stacked, Limited
- ISBN / Bookland EAN
- Pharmacode 39
- Interleaved 2 of 5
- Standard 2 of 5
- IATA

- PDF-417
- Micro-PDF
- RSS Composites

Safety & Regulatory

Electrical: Complies to: Gost R; UL; cUL; IEC60950

Emissions: Complies to: FCC-A; EN 55022-B; CISPR-22; VCCI-B

Radio: FCC Part 15C, R and TTE, IC and IDA.

For RF Approved countries, please contact PSC.

Laser Classification: IEC 60825 Class 1 LED

Restriction of Hazardous Substances: Complies to EU RoHS



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