Cobra™ LS 1900 Series

symbol®

Smart Line

BAR CODE SCANNERS

Value, Style and Performance

The Cobra LS 1900 Series of scanners from Symbol Technologies is designed to fit your hand and your budget. Its sleek, light-weight, ergonomic design is perfectly balanced to minimize operator strain while maximizing comfort. The Cobra LS 1900 is a premium scanner at an entry-level price with features you'd only expect to find in high-end solutions. A hands-free stand delivers the flexibility to operate as a presentation scanner for both triggered and triggerless configurations. Backed by Symbol's five-year plus warranty, the Cobra LS 1900 Series offers the scanning quality and versatility that users have relied on for over 25 years.

Enhance User Productivity Across Multiple Scanning Applications

The Cobra LS 1900 Series offers a large, bright two-color LED plus a beeper with adjustable volume for audible confirmation of good decodes. Its highly visible scan line provides simple aiming, while the curved rubber nose makes it easy to orient the scan beam – even when scanning on contact. This ensures valid decodes the first time, every time. The result: fast, accurate data capture and the elimination of keyboard entry errors.

The Cobra LS 1900 Series offers a complete scanning and connectivity feature set making it the scanner of choice for a wide range of bar code data applications in grocery and specialty stores, video rental establishments, music stores and more. Beyond the checkout counter, the versatile Cobra LS 1900 Series is also a reliable solution for applications such as document tracking, tool crib management, time and attendance tasks, light industrial applications, and even lottery ticket scanning.

Maximize Your Investment for the Long Term

The decoded versions have multiple on-board interfaces plus universal cabling to provide flexible connectivity to future-proof your hardware investment. Advanced Data Formatting (ADF) capabilities allow scanned data to be modified prior to transfer ensuring compatibility with the application on the host system. The Cobra LS 1900 Series uses flash memory to facilitate post-purchase upgrades, change default settings or customize the device for singular applications. It even ships ready to read Reduced Space Symbology (RSS), an emerging symbology for smaller products where space is at a premium.

Backed by Symbol's five-year warranty, the Cobra LS 1900 Series will meet your bar code data capture needs well into the future. To find out how your company's workforce can increase productivity using the Cobra LS 1900 Series, visit us at **www.symbol.com/cobra**

Features	Benefits
Triggered and triggerless (continuous on) configurations	Select the best configuration to maximize ease of use for your applications
Ergonomic design	Sleek, balanced form factor reduces user discomfort while scanning
Large 2-color LED and beeper with adjustable volume	Multiple modes of confirmation ensure positive feedback to the user
Decoded versions offer multiple interfaces on-board	Flexible connectivity allowing for host "future proofing"
Advanced Data Formatting (ADF)	Enables users to format data before it is sent to the host computer eliminating costly modifications to the host software
Flash memory	Facilitates updates/customization of product in the field
Reads Reduced Space Symbology (RSS)	Compatible with this emerging symbology to leverage your hardware investment
Mylar® scan element	Unsurpassed scanning perfor-mance without friction or wear; covered by a lifetime warranty
Hands-free stand	Enables automatic presentation scanning
Universal cables	Shares cabling with other Symbol scanners for easy replacement and/or upgrades
Supports 123Scan scanner setup utility	Flexible setup using PC utility download, or by scanning a sequence of bar codes

Product Configurations

The Cobra LS 1900 Series from Symbol Technologies is available in a number of configurations to enable you to match desired features to your specific application requirements:

▶ LS 1900T: Undecoded, triggered scanner
▶ LS 1902T/LS 1908T: Decoded, triggered scanner
▶ LS 1902C/LS 1908C: Decoded, triggerless scanner

Cobra LS 1900 Series Specification Highlights

Physical Characteristics

Dimensions:	5.3 in. H x 2.5 in. W x 2.2 in. D/13.4 cm H x 6.4 cm W x 5.7 cm D
Weight (without cable):	LS 1900T: 4.0 oz./115 gm
	LS 1908T: 4.0 oz./115 gm
	LS 1908C; LS 1902C: 4.2 oz./120 gm
Voltage & Current:	LS 1900T: 4.8-14 VDC @ 80 mA nominal
	LS 1908T: 5 VDC @ 90 mA nominal
	LS 1908C; LS 1902C: 4.5 - 5.5 VDC @ 140 mA nominal
Power Source:	LS 1900T; LS 1908T: Power supplied by interface controller
	LS 1908C; LS 1902C: Power supplied by host or power supply
Color:	Cash Register White (shown) or Twilight Black

Performance Characteristics

Scanner Type:	Bi-directional retrocollective
Light Source:	650± nm visible laser diode
Scan Rate:	Approximately 44 scans per second (bi-directional)
Nominal Working Distance:	See Decode Zone
Minimum Element Width:	5 mil (0.127 mm)
Print Contrast Minimum:	25% minimum reflectance differential measured at 650 nm
Skew Angle:	±60° from normal
Pitch:	±65° from normal
Decode Capability:	Decoded scanners: UPC/EAN/JAN, UPC/EAN with supplementals, Code 128, Code 39, Code 39 Full ASCII, Code 93, MSI, Interleaved 2 of 5, Discrete 2 of 5, UCC/EAN 128, Codabar, Code 11, Coupon Code, Bookland EAN, RSS variants
Interfaces Supported:	LS 1908T, LS 1908C: RS-232, Keyboard Wedge, USB, IBM 468X/469X, Wand Emulation and Synapse
	LS 1902T, LS 1902C: RS-232, Keyboard Wedge, Wand Emulation and Synapse

User Environment

Operating Temperature:	32° to 104° F (0° to 40° C)
Storage Temperature:	-40° to 140° F (-40° to 60° C)
Humidity:	5% to 95% noncondensing
Drop Specifications:	Withstands multiple 5-ft./1.5-m drops to concrete
Ambient Light Immunity:	Indoor: 450 ft.-candles (4,842 LUX)
	Outdoor: 8,000 ft.-candles (86,112 LUX)

Accessories

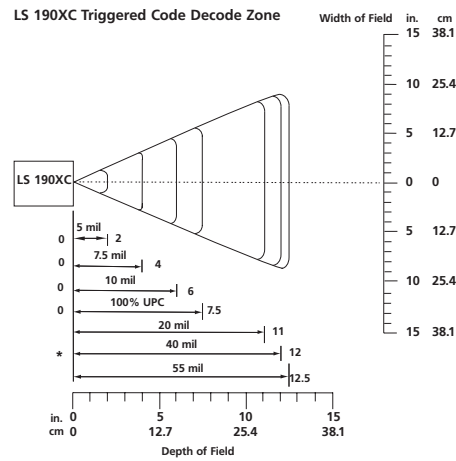|	
Desktop/Counter Stand:	20-52659-01
Battery Box:	20-10615-01

Warranty

The Symbol Cobra LS 1900 Series is warranted against defects in workmanship and materials for a period of 60 months from date of shipment, provided that the product remains unmodified and is operated under normal and proper conditions. The Mylar® scan element is covered by Symbol's limited lifetime warranty. The Mylar scan element consists of a Mylar strip, frame, mirror assembly and magnet. See the complete warranty for details.
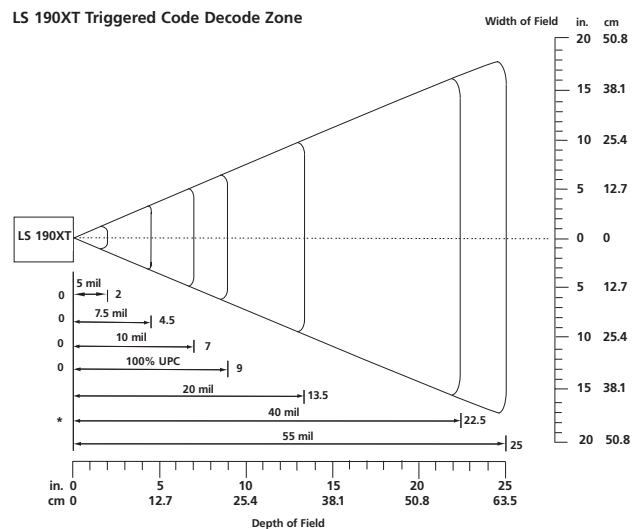
LS 190XC Triggered Code Decode Zone

*Minimum distance determined by symbol length and scan angle
Note: Typical performance at 73° F (23° C) on high-quality symbols in normal room light.

LS 190XT Triggered Code Decode Zone

*Minimum distance determined by symbol length and scan angle
Note: Typical performance at 73° F (23° C) on high-quality symbols in normal room light.

CAUTION
LASER LIGHT–
DO NOT STARE INTO BEAM
630nm-680nm LASER
1.0 MILLIWATT MAX. OUTPUT
CLASS II LASER PRODUCT

For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Business Partner.

BUSINESS PARTNER

LS1900 07/02