



ZEBRA SE4600LR

LONG RANGE INDUSTRIAL IMAGING ENGINE

STREAMLINE END-TO-END WAREHOUSE MANAGEMENT— FROM RECEIVING TO SHIPPING

Create mobile devices that can help your customers improve end-to-end efficiency and throughput in the warehouse with the SE4600LR. From bar codes to documents, this all-in-one long range imager captures it all. True laser speed on 1-D and 2-D bar codes lets your customers implement 2-D bar codes, without impacting worker productivity. The flexibility to scan bar codes as close as eight inches to over 30 feet provides the extraordinary scanning range required to support virtually any warehouse application — all in a single device. And with rugged all-metal construction and an unprecedented 2500 g shock rating, the SE4600LR is built to thrive in demanding warehouse environments.

A LOW TOTAL COST OF OWNERSHIP (TCO)

The rugged design, flexible data capture and broad scanning range allow the creation of a very dependable device that can meet many needs throughout the warehouse. Uptime is maximized and the purchase of multiple device types is eliminated, along with the associated capital and operational costs. The result is the delivery of high performance mobile devices that offer your customers real value — a low TCO.

HELP YOUR CUSTOMERS INCREASE WORKER PRODUCTIVITY WITH FIRST-TIME EVERY TIME DEPENDABLE SCANNING

A variety of features allows your products to improve task efficiency in the warehouse. Omnidirectional scanning provides 'point and shoot' simplicity — no need to waste time aligning scanner and bar code. A bright and intuitive aiming dot ensures first time accurate capture of bar codes and other data. Patented illumination technology captures bar codes in any light — from the darkest corners in the warehouse to the bright sunlight out in the yard. Exceptional motion tolerance enables continual scanning — users no longer need to pause between bar codes, protecting productivity. And the ability to capture scratched, dirty and poor quality bar codes common in warehouse environments eliminates exceptions — and their associated productivity drain.

PROVEN TECHNOLOGY YOU CAN COUNT ON

When you choose the SE4600LR, you get the peace of mind that comes from choosing superior, well-tested technology. Every day, all around the world, our OEM products power millions of devices in thousands of applications across industries. Put our award-winning data capture technology in your next device to enable the rapid yet cost-effective design of high-quality solutions that meet the needs of your customers — and improve your margins.

For more information, visit www.zebra.com/se4600lr or access our global contact directory at www.zebra.com/contact

SE4600LR Decode Zone: Near

FEATURES

Captures virtually all 1-D and 2-D bar codes and documents

Provides flexibility for many applications; enables design of devices that offer multiple types of data capture; enables standardization on a single engine to streamline and reduce the cost of product development

Extremely fast decode time

True laser speed on 1-D and 2-D bar codes, improving productivity

Exceptional motion tolerance

Provides extraordinary scanning speed for all bar codes, increasing throughput and productivity, regardless of application

Patented decoding software

Captures damaged, dirty and poorly printed bar codes

Built for business

Elimination of moving parts, the industry's highest shock rating plus a zinc chassis ensure reliable scanning, despite the inevitable everyday drops and bumps

Fixed dual-focus sensor

Provides an extraordinary scanning range — from 8 in./20.32 cm to over 30 ft./9.14 m; laser-like performance on all bar codes

No moving parts and rugged all-metal construction

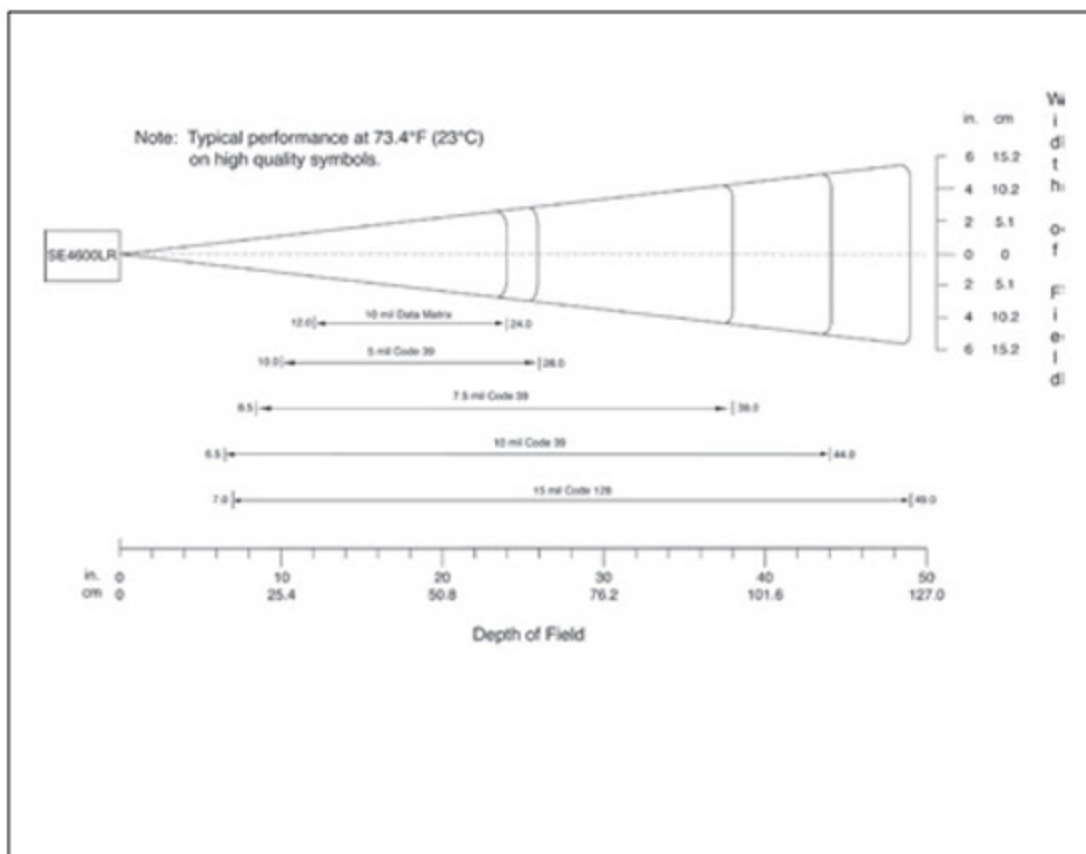
Industrial design increases durability and reliability in demanding conditions

Accurate aiming

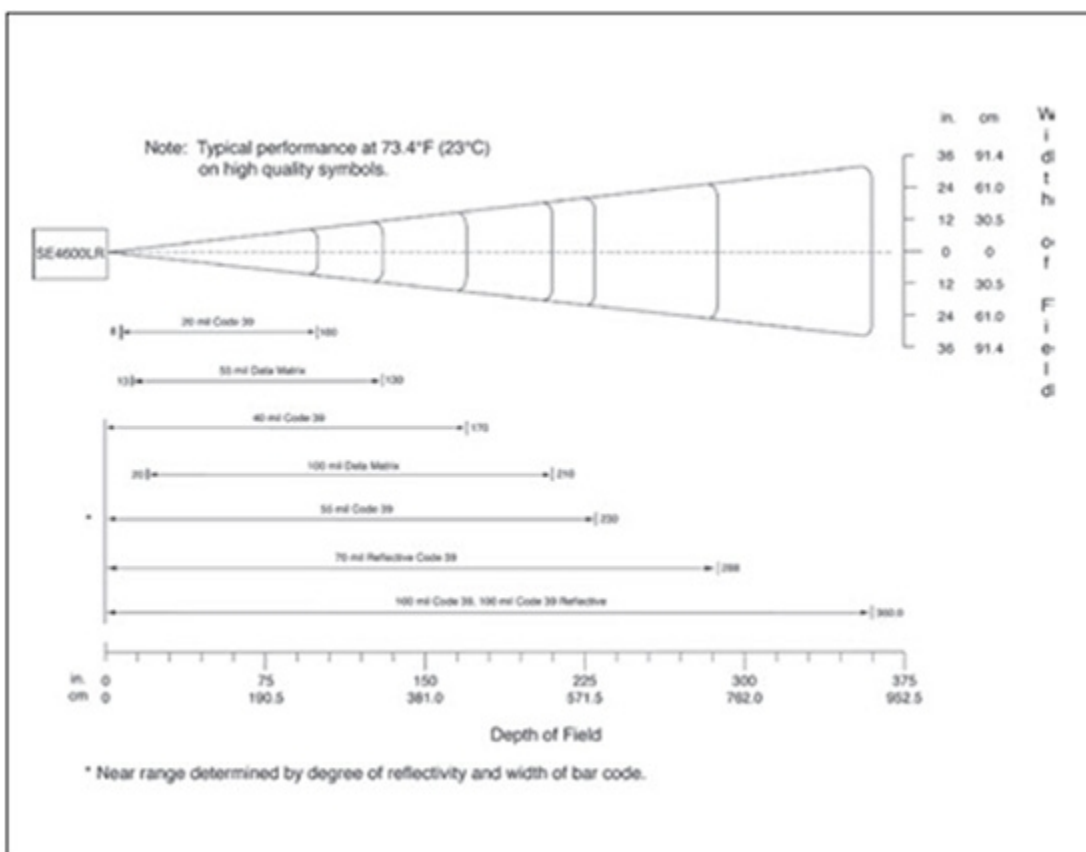
Bright laser aimer ensures quick, accurate scanning in virtually any lighting condition — from dim corners of the warehouse to the most brightly lit retail environments

Compact form factor

Minimal weight and maximum data capture functionality and range delivers maximum application flexibility



SE4600LR Decode Zone: Far



Specifications Chart

PERFORMANCE CHARACTERISTICS

Sensor Resolution	752 x 480 pixels (Wide VGA)
Field of View	Far: Horizontal: 11.6°, Vertical: 7.4°
	Near: Horizontal: 13°, Vertical: 8.3°
Skew Tolerance	±60°
Pitch Tolerance	±60°
Roll Tolerance	360°
Focal Distance from Front of Engine	Far: 100 in.
	Near: 23 in.
Aiming Element	Visible Laser Diode (VLD); 655 ± 10 nm Laser
Illumination Element	625 ±5 nm LEDs (dominant wavelength)
Min. Print Contrast	Minimum 25% absolute dark/light reflectance measured at 650 nm

DECODE RANGES (TYPICAL WORKING RANGES)

5 mil Code 39	10 in./25.40 cm
	26 in./66.04 cm
7.5 mil Code 39	8.5 in./21.59 cm
	38 in./96.52 cm
10 mil Code 39	6.5 in./16.51 cm
	44 in./111.76 cm
15 mil Code 39	7 in./17.78 cm
	49 in./124.46 cm
20 mil Code 39	8 in./20.32 cm
	100 in./254.00 cm
40 mil Code 39	22 in./55.88 cm
	170 in./431.80 cm
55 mil Code 39	26 in./66.04 cm
	230 in./584.20 cm
100 mil Code 39	30 in./76.20 cm
	360 in./914.4 cm
70 mil Reflective Code 39	46 in./116.84 cm
	288 in./731.52 cm
100 mil Reflective Code 39	50 in./127.00 cm
	360 in./914.40 cm
Data Matrix 10 mil	12 in./30.48 cm
	24 in./60.93 cm
Data Matrix 55 mil	13 in./33.02 cm
	130 in./330.20 mm
Data Matrix 100 mil	20 in./50.80 cm
	210 in./533.40 cm

PHYSICAL CHARACTERISTICS

Dimensions	0.76 in. H x 1.51 in. W x 1.06 in. D 19.3 mm H x 38.2 mm W x 27.0 mm D
Weight	1.59 - 1.83 oz./45 - 52 grams
Interface	27 pin 0.3 mm pitch ZIF connector

USER ENVIRONMENT

Ambient Light	Max 96,900 lux (direct sunlight)
Operating Temp.	-4° F to 131° F / -20° C to 55° C
Storage Temperature	-40° F to 158° F / -40° C to 70° C
Humidity	Operating: 95% RH, non-condensing at 55° C Storage: 85% RH, non-condensing at 70° C
Shock Rating	2000 G ±5%, any mounting surface, at -20 and 55° C for 0.85 ±0.1 ms 2500 G ±5%, any mounting surface, at 23° C for 0.70 ±0.07 ms
Power	Input Voltage: 3.3V ±10%, 1A max Average current draw will illumination and aiming: 600mA (See Integration Guide for further details)

REGULATORY

Laser Classification	Intended for use in CDRH Class II / IEC 60825-1 Class 2 devices
Electrical Safety	UL, VDE and CU recognized laser component
Environmental	RoHS Compliant

WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the SE4600LR is warranted against defects in workmanship and materials for a period of 15 months from the date of shipment. For the complete Zebra hardware product warranty statement, go to: <http://www.zebra.com/warranty>



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ZEBRA TECHNOLOGIES