



**ZEBRA**

# ZEBRA SE4750 / SE4757

## NEXT GENERATION INTELLIGENT IMAGING

### RESET THE BAR ON IMAGING PERFORMANCE AND FLEXIBILITY

The Zebra SE4750 represents a new generation of imagers that provide unparalleled performance on just about any type of data imaginable — from 1-D and 2-D bar codes to photos and fully searchable and editable legal, letter, A4 and A5 documents. Zebra's proprietary PRZM (pronounced "prism") Intelligent Imaging technology, megapixel sensor and advanced optics work together to set the SE4750 in a class of its own.

While competitive systems rely on decode software to perform all image processing, PRZM changes the game by offloading a portion of that processing to the source of the image — the scan engine itself — reducing unnecessary delay and delivering a faster data capture experience. This unique approach helps businesses in just about any industry improve user productivity and business efficiency.

### SUPPORT FOR THE NEXT GENERATION MIPI INTERFACE

Unlike its major competitors, the SE4750 supports the emerging MIPI interface as well as traditional parallel interfaces. Now, you can utilize the latest processors in your designs without sacrificing cost, integration time, or precious space for incremental hardware components. The result? Faster time to market and reduced costs.

### EXTRAORDINARY WORKING RANGE

The standard scanning range on the SE4750 Standard Range is anything but standard. Users can capture data that is farther than 36 in./92 cm away — over 30 percent farther than its predecessors. The SE4750 Mid-Range expands the working range even further, to more than 20 feet / 6 m. With a wide field of view, the SE4750SR also enables reading of larger bar codes, as well as simultaneous capture of multiple bar codes.

### ADVANCED DOCUMENT CAPTURE

Zebra's integrated Intelligent Document Capture technology makes it easy to capture documents that are highly legible — and searchable. With the single press of a button, this intelligent software determines when conditions are ideal to capture the highest quality image, taking the guesswork away from users. Once the image is captured, it is automatically analyzed and up to eight functions are performed as needed. In a fraction of a second, without any user intervention, shadows and noise are removed, and images are de-skewed, rotated, brightened, sharpened and cropped.

### SUPERIOR INTEGRATION FLEXIBILITY

At less than nine grams (three tenths of an ounce) and approximately a quarter cubic inch, this small, lightweight imager can be easily integrated into even the most space-constrained products, from mobile computers, handheld scanners and self-service kiosks to medical and diagnostic instruments and lottery terminals. In addition, you have the flexibility to choose the decoder strategy that best fits your product designs — software or hardware. Our software decode option reduces system power requirements and integration space in your OEM device. Hardware options include a standalone circuit board that connects to your board, a microchip you can solder directly to your mother board, or the SE4757 that includes an attached decoder board for a plug-and-play imaging solution.

### EASILY UPGRADE YOUR EXISTING DESIGNS TO THE LATEST IMAGING TECHNOLOGY

### FEATURES

#### Zebra-exclusive PRZM Intelligent Imaging technology

Offloads a portion of the processing from the decode software to the scan engine, reducing processing time and enabling faster data capture

#### Support for MIPI and parallel interfaces

Reduces integration time and cost by eliminating components

#### Comprehensive data capture capabilities

Capture 1-D and 2-D bar codes in milliseconds, from high-resolution photos, to letter, legal, A4 and A5 documents that are fully searchable and editable

#### Extraordinary working range

Capture data farther than 20 ft / 6 cm away

#### SR Model with extra wide field of view

Easy close-up reading of large bar codes as well as multiple bar codes

#### Exceptional motion tolerance

Delivers extraordinary scanning speed on all bar codes, increasing throughput and productivity in virtually any application

#### Superior document processing

With the press of the shutter button, Zebra's Intelligent Document Capture software ensures the capture of the

Since the SE4750 uses the same form factor and mounting pattern as our standard-setting SE4500 imager, you can easily migrate your existing equipment to this next generation imaging technology, infusing your designs with the ability to capture more types of data, faster than ever

## PROVEN TECHNOLOGY YOU CAN COUNT ON

When you choose the SE4750, 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. You enjoy award-winning data capture technology, ease of integration, high reliability and superior performance, enabling the rapid, cost-effective design of more profitable high-quality data capture solutions.

Empower your designs with next generation imaging. For more information on the Zebra SE4750, visit [www.zebra.com/se4750](http://www.zebra.com/se4750) or access our global contact directory at [www.zebra.com/contact](http://www.zebra.com/contact)

highest quality electronic documents; automatically identifies and corrects image quality issues; creates the smallest possible file size without impacting legibility; and attaches the image to the appropriate record

## Miniature, lightweight form factor

Adds minimal weight and maximum data capture functionality; tiny size fits easily in the most space-constrained designs

## Omnidirectional scanning for unparalleled ease of use

No need to ever align the bar code and imager for highly intuitive and rapid bar code capture

## Multiple decode options with the same great Zebra scanning performance

Increase design flexibility with your choice of software only or hardware decode — available on a separate circuit board, a microchip or an all-in-one plug-and-play solution SE4757 with attached decoder board

## Pick list mode

Enables users to easily select a single bar code to capture on a field of bar codes

## Multiple engine models to meet wide variety of application requirements

Choose among various options to best suit your application: aimer (LED or laser), focus (Standard Range, Mid-range, DPM (future)), interface (parallel or MIPI), and decoded/undecoded

## SPECIFICATIONS

PHYSICAL CHARACTERISTICS		ENVIRONMENT (CONTINUED)	
Dimensions	<b>SE4750SR:</b> 0.46 in. H x 0.85 in. W x 0.64 in. D 11.8 mm H x 21.5 mm W x 16.3 mm D <b>SE4750MR:</b> 0.46 in. H x 0.85 in. W x 0.65 in. D 11.8 mm H x 21.5 mm W x 16.5 mm D <b>SE4757:</b> 0.76 in. H x 1.53 in. W x 1.10 in. D (19.4mm H x 38.8mm W x 28.0mm D)	Power	<b>SE4750:</b> Operational input voltage Engine: VCC= 3.3 +/-0.3V; VCC_ILLUM= 3.0 to 5.5V; VDD_IO_HOST= 1.7 to 3.6V Total Current Draw (VCC= VCC_ILLUM=VDD_IO_HOST= 3.3V) with illumination and aiming on, 440mA RMS Current draw in low power ( hibernate mode) =360uA (standby mode) =15uA <b>SE4757:</b> Host Supply Voltage 3.3V+/-0.3V Total current draw 500mA RMS Host Supply Voltage 5V+/-0.5V Total current draw 380mA RMS Low Power current 15mA
Weight	<b>SE4750:</b> 0.29 oz./8.22 grams <b>SE4757:</b> 0.53 oz./15.0 grams		
Interface	<b>SE4750:</b> Camera Port on 21 pin ZIF connector <b>SE4757:</b> 31 pin ZIF connector/ Micro USB		
PERFORMANCE CHARACTERISTICS		DECODE RANGES	
Sensor	1280 x 960 pixels	SR Focus	
Resolution		3 mil Code 39	2.8 in./7.1 cm (Near) 6.2 in./15.8 cm (Far)
Field of View	SR: Horizontal: 48°, Vertical: 36.7° MR: Horizontal: 31°, Vertical: 23°	5 mil Code 128	2.3 in./5.8 cm (Near) 8.7 in./22.1 cm (Far)
Skew, Pitch & Roll	Skew Tolerance: ±60° Pitch Tolerance: ±60° Roll Tolerance: 360°	5 mil PDF417	3.0 in./7.6 cm (Near) 8.1 in./20.6 cm (Far)
Focal Distance	SR: From front of engine: 7.38 in. MR: From front of engine: 14.2 in.	6.67 mil PDF417	2.2 in./5.6 cm (Near) 10.6 in./26.9 cm (Far)
Aiming LED (VLD)	655nm Laser	10 mil DataMatix	2.4 in./6.1 cm (Near) 10.6 in./26.9 cm (Far)
Illumination	2X Warm white LEDs	100% UPCA	1.6* in./4.1* cm (Near) 23.0 in./58.4 cm (Far)
ENVIRONMENT		15 mil Code 128	2.4* in./6.1* cm (Near) 25.2 in./64.0 cm (Far)
Ambient Light	Max 96,900 lux (direct sunlight)		

Operating Temp.	-22° F to 140° F / -30° C to 60° C (measured at engine chassis)	20 mil Code 39	1.6* in./4.1* cm (Near) 36.3 in./92.2 cm (Far)
Storage Temp.	-40° F to 158° F/-40° C to 70° C	MR Focus	
Humidity	Operating/Storage: 95% RH, non-condensing at 60° C	5 mil Code 128	7.4 in./18.8 cm (Near) 16.0 in./40.6 cm (Far)
Shock Rating	2000 G $\pm$ 5%, any mounting surface, at -30 and 60° C for 0.85 $\pm$ ms	5 mil PDF417	8.1 in./ 20.6 cm (Near) 13.1 in./ 33.3 cm (Far)
	2500 G $\pm$ 5%, any mounting surface, at 23° C for 0.70 $\pm$ 0.10 ms	7.5 mil DataMatrix	8.3 in./ 21.1 cm (Near) 12.8 in./ 32.5 cm (Far)
		10 mil DataMatrix	7.0 in./ 17.8 cm (Near) 17.0 in./ 43.2 cm (Far)
		100% UPCA	2.3* in./ 5.8* cm (Near) 38.0 in./ 96.5 cm (Far)
		15 mil Code 128	4.0* in./ 10.2* cm (Near) 40.0 in./ 101.7 cm (Far)
		20 mil Code 39	2.1* in./ 5.3* cm (Near) 54.0 in./ 137.2 cm (Far)
		100 mil Code 39	11.0 in./ 27.9 cm (Near) 172.0 in./ 436.9 cm (Far)
		160 mil DataMatrix	11.5 in./ 29.2 cm (Near) 138.0 in./ 350.5 cm (Far)

\* Field of View limited

## REGULATORY

Laser / LED Classification	Laser Aim Models: Intended for use in CDRH Class II/IEC 825 Class 2 devices
Classification	LED Aim Models: Classified as Exempt Risk Group per IEC/EN 62471
Electrical Safety	Laser Aim Models: UL, VDE and CU recognized laser component
Safety	LED Aim Models: UL Recognized Component which complies with IEC/EN 60950-1
Environmental	RoHS Compliant

## WARRANTY

Subject to the terms of Zebra's hardware warranty statement, the SE4750/SE4757 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**