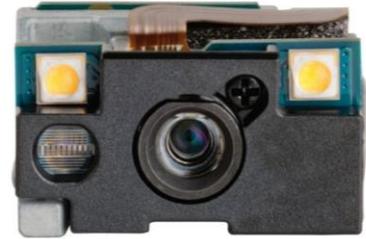## Zebra SE4850 Extended Range Imager (ERI)

Loaded with state-of-the-art technology, the SE4850 stands at the top of its class, able to scan closer and farther than any other long range scanner. The extraordinary flexibility allows one scanner to fulfill all standard 1D/2D barcode scanning needs, simplifying purchasing, deployment and support.

The SE4850 features:

- Best-in-class all-range scanning. The SE4850 can scan up to 70 ft. away (21.4 M) to as close as 3 in. (7.6 cm), a best-in-class range that is up to 60 percent closer and 35 percent farther than competitive imagers.
- Advanced algorithms to capture practically any barcode in virtually any condition. Scratched, dirty, damaged, poorly printed, shrink wrapped, through fork lift cab windows and more.
- Advanced optics to capture very wide bar codes at close range.
- Advanced sensor technology. This sensor re-sets the bar for near-to-far imaging by redefining image acquisition, image processing and decode speeds as well as near and far scanning ranges.
- Auto-ranging for the fastest scanning at any distance. With proprietary auto-ranging, the intelligent SE4850 senses the distance and condition of each barcode, taking the speed and accuracy of first-time every-time scanning to a new level.
- Omni-directional scanning provides point-and-shoot ergonomics – no need to align the scanner with the barcode, eliminating wrist movements that not only erode productivity, but could likely cause repetitive motion injury over time.
- Read barcodes at extreme angles. Workers standing on the floor can aim at a top rack overhead, no need to move to change the angle to capture the barcode.
- Dynamic Illumination provides the right illumination for the right distance. Crucial for long range barcode capture, this feature automatically delivers maximum brightness for barcodes that are far away, and reduces the brightness for barcodes that are close, ensuring comfortable scanning for users and all others in the vicinity of the scanner. And since battery power is preserved, battery cycle times are extended, helping deliver full shift battery power for every user.
- Dual optics aimer – a single combination aimer for easy and accurate aiming at any distance.
- The aimer is a line with a dot in the center. At close distances, users can see and place the line across the bar code. At longer distances, the line will no longer appear, but the bright dot in the center of the pattern is easily visible at the far end of the scanning range for easy barcode capture 70 ft./21.4 m away.

### Decode Ranges

**Table 5-2**  *SE4850 Working Decode Ranges*

| Symbology | Typical Working Range (inches/centimeters) @ 20 Ft-Cd Minimum | |
| --- | --- | --- |
| | Start | End |
| 10 mil Code 39 | 3.0/7.6 * | 85.0/215.9 |
| 13 100% UPC | 3.5/8.9 | 90.0/228.6 |
| 15 mil Code 128 | 6.0/15.2 * | 100.0/254.0 |
| 20 mil Code 39 | 4.0/10.2 * | 172.0/436.9 |
| 40 mil Code 39 | 6.0/15.2 * | 340.0/863.6 ** |
| 55 mil Code 39 | 7.0/17.8 * | 430.0/1092.2 ** |
| 100 mil Code 39 (paper) | 20.0/50.8 * | 700.0/1778.0 ** |
| 100 mil Code 128 (reflective) | 30.0/76.2 * | 700.0/1778.0 |
| DataMatrix 10 | 5.0/12.7 | 45.0/114.3 |
| DataMatrix 55 | 5.0/12.7 | 250.0/635.0 |
| 15 mil Code 128 (4 in. wide) | 8.0/20.3 * | 100.0/254.0 |

\* Depends on the width of the bar code (shorter bar codes can be read even closer, and wider bar codes farther).
\*\* Range is reduced under lower ambient light level.

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