

**Intermec**

## Product Profile

- Durable Sabre design withstands the harshest environments
- Only 184 grams (6.5 ounces) for comfort and easy all day use
- Choice of scan engine optics for application flexibility
- Both decoded and undecoded versions available
- Free EasySet™ configuration utility makes initial set up a snap!
- Three year warranty guarantees customer satisfaction



### SABRE™ 1550C & 1551E SCANNER

Rough and tough aren't usually equated with comfortable and lightweight, unless you're talking about the Sabre™ 1550C and 1551E laser scanners from Intermec. These hand held laser scanners are built to perform under the harshest conditions, yet they're ergonomic design supports ease of use and comfort for extended periods of scanning.

Boasting a protected laser window and ample protective rubber, these rugged scanners can withstand repeated drops of up to 183 cm (6 feet), wind and rain, off-road vehicle vibration levels and below freezing temperatures. A three year product guarantee ensures customer satisfaction.

Operators will find the well-balanced scanners easy to use in either hand, with large triggers and integrated sites for accurate aiming.

Standard range versions of these scanners read codes as small as 5 mil or as large

as 100 mil retro-reflective. The Advanced Long Range models read at distances never before available in Sabre products—as far as 8.1 meters (27 feet), making them ideal for warehouse applications involving scans at the highest shelves of pallet racking.

The 1551E, with the Intermec built-in decoder known for its snappy scanning performance, is the first in the Sabre line to offer a high-speed laser version capable of reading both linear and PDF417 barcodes.

EasySet™, a software utility for quick and easy configuration of Intermec scanners, removes the need to page through manuals to simply activate application features in the 1551E. After installing EasySet on a PC, users simply print a bar code from the program, scan it with the 1551E, and the device will be automatically configured. Every 1551E comes with EasySet configuration software free of charge.

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**Physical Description**

Sabre 1550C Undecoded Laser Scanner  
 Sabre 1551E Decoded Laser Scanner

**Product Contents**

Scanner, Easy Set, Operator's Guide and Getting Started Guide

**Warranty**

3 years

**Physical Characteristics**

**Length:** 8.9 cm (3.5")  
**Height:** 17.8 cm (7.0")  
**Width:** 5.6 cm (2.5")  
**Weight:** 185 g (6.5 oz.) without cable

**Power**

**1550C:** -125 mA nominal at 5V  
**1551E:** -215 mA nominal at 5V

**Terminal Connectivity - 1551 only**

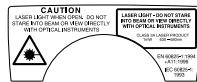
RS-232c, IBM PC XT/AT or PS/2 30/50-80, DEC VT510/520, DEC VT220/320/420. Apple Mac ADB, RS232 TTL, IBM 3151/347X/317X/318X/319X, IBM Thinkpad, Esprit 200/400, Wyse, Zenith Cruise-PAD, laptops, and Intermec terminals.

**Bar Code Symbologies**

**1550C:** Undecoded device (dependent on decoder for scanning symbologies)  
**1551E:** UPC (E&A), EAN, Code 11, Code 39, Code 128, UCC EAN 128, ISBN, ISBT, Interleaved 2 of 5, Codabar, Code 93, MSI, Plessey, Telepen, ISBT 128

**Scanning Performance**

**Scan rate:** 36±3 scans per second  
**High Density Laser:** 2 mil  
**Standard Range Laser:** 5 mil  
**Long Range Laser:** 10 mil



**Scan Range**

**Dependent on scan engine**

**Standard Range Laser Engine\*:**

5 mil/0.13 mm	8.1-14.5 cm	3.2-5.7"
7.5 mil/0.19 mm	7.4-22.6 cm	2.9-8.9"
10 mil/0.25 mm	6.1-34.0 cm	2.4-13.4"
15 mil/0.38 mm	6.1-46.7 cm	2.4-18.4"
20 mil/0.5 mm	8.9-62.2 cm	3.5-24.5"
40 mil/1.0 mm	11.4-99.1 cm	4.5-39"
55 mil/1.4 mm	17.8-124.5 cm	7-44"
70 mil/1.8 mm retro-reflective	91-242 cm	36-84"
100 mil/2.54 mm retro-reflective	112-226 cm	44-89"
100% UPC/EAN	2.5-38 cm	1-15"

**Long Range Laser Engine\*:**

7.5 mil/0.19 mm	27-43 cm	11-17"
10 mil/0.25 mm	27.9-98.3 cm	11-19"
15 mil/0.38 mm	20.3-83.8 cm	8-33"
20 mil/0.5 mm	20.3-96.5 cm	8-38"
40 mil/1.0 mm	22.9-190.5 cm	9-75"
55 mil/1.4 mm	22.9-203 cm	9-80"
70 mil/1.8 mm retro-reflective	104-150 cm	75-161"
100 mil/2.54 mm retro-reflective	210.8-530.9 cm	83-209"
100% UPC/EAN	27-70 cm	11-28"

**Advanced Long Range Laser Engine\*:**

10 mil/0.25 mm	54-80 cm	21-32"
15 mil/0.38 mm	51-118 cm	20-47"
20 mil/0.5 mm	38-154 cm	15-61"
40 mil/1.0 mm	41-250 cm	16-99"
55 mil/1.4 mm	56-303 cm	21-120"
70 mil/1.8 mm retro-reflective	274-546 cm	108-216"
100 mil/2.54 mm retro-reflective	243-698 cm	96-276"
100% UPC/EAN	54-106 cm	21-42"

**High Visibility Laser Engine\*:**

5 mil/0.13 mm	7.4-11.2 cm	2.9-4.4"
7.5 mil/0.19 mm	4.8-18.8 cm	1.9-7.4"
10 mil/0.25 mm	4.6-22.9 cm	1.8-9"
15 mil/0.38 mm	3.8-35.6 cm	1.5-14"
20 mil/0.5 mm	5.1-48.3 cm	2-19"
40 mil/1.0 mm	10.2-78.7 cm	4-31"
55 mil/1.4 mm	16.5-88.9 cm	6.5-35"
100% UPC/EAN	2.5-40 cm	1-16"

**High Density Laser Engine\*:**

2 mil/0.05 mm	1.8-3.9 cm	.7-1.8"
5 mil/0.13 mm	3.8-11.9cm	1.5-4.7"
7.5 mil/0.19 mm	2.5-15cm	1-6"
10 mil/0.25 mm	2.5-17 cm	1-7"
15 mil/0.38 mm	2.5-22 cm	1-9"
100% UPC/EAN	2.5-17 cm	1-7"

\*Depth of field measured using Code 39, ANSI Grade A

**Print Contrast**

**Standard range, high visibility:**

minimum 25% reflectance difference

**High density, long range :**

minimum 40% reflectance difference

**Skew:** ±55° from normal

**Pitch:** ±65° from normal

**Optical Parameters**

Visible laser diode  
 670nm±10nm  
 (standard range, high density)  
 650nm±10nm  
 (Long range, high visibility, ALR)  
**ALR:** International Class 3A  
 USA/Canada Class II

**All others:** International Class 2

**Ambient Light Immunity**

Immune to direct exposure from office level lighting and sunlight

**Environmental**

**Operating Temperature:**

- 30° to 50°C (-22° to 122°F)

**Storage Temperature:**

- 40° to 70°C (-40° to 168°F)

**Humidity:** Non-condensing (0 - 95% RH)

**Drop Test:** Twenty six 1.8 m (6')

drops to concrete

Sealed against rain and dust

(IEC 529 rated at IP54)

SAE off-road vehicle spec for

vibration (Class 3)

**Accessories**

Scanner Pouch, Holster and Belt, Vehicle Mount Holder, Wall Mount Holder and Desk Stand Holder

**Regulatory Approvals**

UL listed UL 1950 and C22.2 no. 950; UL listed UL 1604 (Div. 2, Class I, II & III hazardous locations); TÜV Rheinland GS, EN 60950 & EN 60825-1; FCC Part 15; Canada, ICES-003, Class B; EN 55022/ CISPR 22, Class B; EN 50082-1; Compliant with all European Directives, CE marked

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