Intermec

Product
Profile

- **Dual technology design augments bar code with RFID reading and programming capability**

- **LCD display and mode key for maximum application flexibility**

- **Optional "Smart" battery pack with integral charger for use with PDT**

- **Fast setup using EasySet™ software for Windows**

- **Durable design withstands the harshest environments**

SABRE® 1555 HANDHELD SCANNER & RFID PROGRAMMER / DECODER

The Sabre 1555 scanner simplifies data collection by combining two technologies into one: it reads bar codes and it reads and programs radio frequency identification (RFID) tags. It also incorporates a laser scan engine for reliable bar code scanning and an RFID interrogator for reading RFID tags up to 2 meters (six feet) away. The interrogator can read single or multiple tags, and can program any Intellitag® RFID tag. The Sabre 1555 is also the first handheld RFID reader to support ANS NCITS 256-1999, the only approved standard for RFID item management.

At 16 ounces, the scanner is lightweight and ergonomically designed for comfortable scanning over an entire shift. It's also rugged enough to withstand the harshest working environments. Its 40-character display, audio feedback, and single-mode key make operation easy and reduce training time.

The Sabre 1555's lithium ion battery option allows the 1555 to operate with a variety of portable data terminals (PDT) without consuming battery power from the PDT. Each lithium ion battery pack has an integrated charger, eliminating the need for a separate charger.

The Sabre 1555 features EasySet™, Intermec's Windows-based scanner configuration software. In off-line mode, EasySet makes it easy to construct and print a page of set-up bar codes that users scan to configure one or more scanners. With EasySet, the scanner is up and running in a matter of minutes. In addition, the scanner can be reconfigured in real time by the host, giving the user total control.

By combining easy set-up and a RS-232 terminal interface, the Sabre 1555 is a new generation in handheld scanning technology and performance.

Physical Characteristics
Scanner Length: 14.61 cm (5.75")
Scanner Height: 22.23 cm (8.75")
Scanner Width: 8.89 cm (3.5")
Scanner Weight: 600 g (16 oz.) including battery

Optics System
Visible laser diode: 650nm±10nm
USA/Canada Class II
International Class 2
Scan rate: 36±3 scans per second

Optical Parameters
Pitch: ±65° from normal
Skew: ±55° from normal
Depth of field–Long Range*:

Mil	cm	Inch
10	27.9-98.3cm	11-19"
15	20.3-83.8cm	8-33"
20	20.3-96.5cm	8-38 "
40	22.9-190.5cm	9-75"
55	22.9-203cm	9-80"
70**	190.5-408.9cm	75-161"
100**	210.8-530.9cm	83-209"

Depth of field–Standard Range*:

Mil	cm	Inch
5	7.4-11.2cm	2.9-4.4"
7.5	4.8-18.8cm	1.9-7.4"
10	4.6-22.9cm	1.8-9 "
15	3.8-35.6cm	1.5-14"
20	5.1-48.3cm	2-19"
40	10.2-78.7cm	4-31"
55	16.5-88.9cm	6.5-35"

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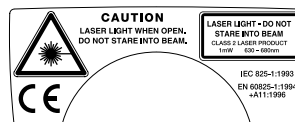 Grade A

** Reflective

Print Contrast
Minimum 40% reflectance difference (long range). Minimum 25% reflectance difference (high visibility)
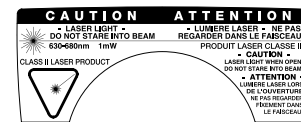
Ambient Light Immunity
Immune to direct exposure from office level lighting and sunlight

Environment
Operating Temperature: 0° to 50°C (32° to 122°F)
Storage Temperature: -20° to 70°C (-4° to 158°F)
Battery Storage Temperature: -30° to 60° C (-22° to 140°F)
Humidity: 0-95% non-condensing
Shock: 26 four foot drops to concrete
Vibration: Class 3 SAE off-road vehicle specification
Environmental: Scanner sealed against windblown rain and dust (IEC 529 rated at IP54).
ESD: Conforms to 12 KV rating per IEC 801-2
EMI Emissions: Conforms to Class A FCC Part 15, RSS 210 and CISPR 22 Class B
Approvals: UL & cUL listed, C22.2 No. 950/UL 1950, TUV Rheinland GS Licensed EN 60950, EN 60825-1, CE marked, C-Tick marked

Battery Packs
1200 mAH 90-135 VAC, 50Hz/60Hz, Lithium Ion with integral charger and 4 hour charge time

Accessories
2-bay and 6-bay charge strips for battery packs available, holtster and belt.

Communications
Frequency: 2450 MHz or 915 MHz unlicensed FCC spread-spectrum frequency-hopping

Host Interfaces
RS-232 Serial

Software Features
Protocols: RFID reader/programmer sofware fully supports the ANSI NCITS 256 - 1999 for item management

Configuration
Setup via EasySet System software for Windows. Print and scan a bar code menu or download a configuration via flash memory

Data Rate
Read 8 bytes of data from a tag in less than 12 ms
Write a single byte of data to a tag in less than 25 ms

Multitag Access (Filtering)
User-specified groups within a population of tags can be selected, read from, and/or written to using multitag access commands.

Power Requirements
8.5 VDC without battery option

Options
Rechargeable battery pack for portable data terminal applications

Read/Write Performance
Read/write performance varies with RFID inserts, tags, and frequency configurations.

Read/Write Ranges
Write ranges are approximately 60% of the effective read ranges of the RFID inserts.

Read Range Examples
Ranges are listed below for RFID inserts using frequency-hopping FCC unlicensed operation reader and free space dipole tag
2 Meters (6.56 ft): 915.0 MHz 45 x 85 x 1 mm 1.77 x 3.35 x .04 in) RFID insert
0.6 Meters (1.97 ft): 2450 MHz 10 x 60 x .5 mm (.39 x 2.36 x .02 in) RFID insert

CAUTION LASER LIGHT WHEN OPEN. DO NOT STARE INTO BEAM.
LASER LIGHT - DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
1mW   630 – 680nm
CE
IEC 825-1:1993
EN 60825-1:1994
+A11:1996

CAUTION   ATTENTION
• LASER LIGHT •
DO NOT STARE INTO BEAM
630<680nm   1mW
CLASS II LASER PRODUCT
• LUMIERE LASER • NE PAS REGARDER DANS LE FAISCEAU
PRODUIT LASER CLASSE II
• CAUTION •
LASER LIGHT WHEN OPEN. DO NOT STARE INTO BEAM.
• ATTENTION •
LUMIERE LASER LORS DE L'OUVERTURE NE PAS REGARDER FIXEMENT DANS LE FAISCEAU