

**HAND HELD SCANNER RANGE**Sabre™ **1552** and MicroBar™ **9745****Benefits:**

- **Cordless design eliminates cables for safer and more reliable scanning**
- **Durable design withstands the harshest environments**
- **Comfortable and light-weight for easy use**
- **“Smart” battery packs with integral charger eliminate the need for a separate charger**
- **Up to ten scanners can interface to a single base station for lower acquisition costs**
- **Unlicensed radio frequency transmission for maximum application flexibility**



The Sabre 1552 Cordless Scanner provides unparalleled flexibility in scanning bar code. Jobs are easier because there is no cable to damage. No cable to become entangled either. You can take the Sabre 1552 with you, to the job, up to 50 feet from a MicroBar 9745 RF Base Station—because both the 1552 and the 9745 use Intermec's PicoLink™ wireless personal area network. PicoLink operates using an unlicensed 2.4GHz radio frequency (RF) hopping design that has global regulatory acceptance and superior interference immunity versus other narrow band RF sources.

Multiple scanners—up to ten—can interface to a single MicroBar 9745 RF Base Station. This gives users unparalleled flexibility in

locating host terminals throughout the work area. Lower acquisition costs too... fewer base stations and fewer host terminal connections are required. Users can also choose from keyboard wedge, RS 232, POS terminal or wand emulation interfaces, and standard, long range, high density and high visibility laser scan engines for additional application versatility.

The 1552 Cordless Scanner is the latest member of the Sabre family of industrial performance scanners. Users will benefit from its ability to withstand the harshest environments—windblown rain and dust, arctic to desert temperature ranges, off-road vehicle levels of vibration and multiple six-foot drops to concrete.

# Sabre™ 1552 and MicroBar™ 9745

## Physical Characteristics

**Scanner Length:** 8.9 cm (3.5")

**Scanner Height:** 21.6 cm (8.5")

**Scanner Width:** 5.6 cm (2.5")

**Scanner Weight:** 426 g (15 oz.) including battery

**Base Station Length:** 11.4 cm (4.5")

**Base Station Height:** 3.8 cm (1.5")

**Base Station Width:** 8.9 cm (3.5")

**Base Station Weight:** 206 g (7.2 oz.) without cable

## Optics System

**Visible laser diode:**

650nm±10nm

(Long range, high visibility, ALR)

670nm±10nm

(standard range, high density)

ALR: International Class 3A

USA/Canada Class II

All others: International Class 2

**Scan rate:** 36±3 scans per second

## Optical Parameters

**Pitch:** ±65° from normal

**Skew:** ±55° from normal

### Depth of field—Standard Range\*:

5 mil	8.1-14.5 cm	3.25-7"
7.5 mil	7.4-22.6 cm	2.9-8.9"
10 mil	6.1-34.0 cm	2.4-13.4"
15 mil	6.1-46.7 cm	2.4-18.4"
20 mil	8.9-62.2 cm	3.5-24.5"
40 mil	11.4-99.1 cm	4.5-39"
55 mil	17.8-124.5 cm	7-44"
55 mil (retroreflective)	104-150 cm	41-59"
100 mil (retroreflective)	112-226 cm	44-89"

### Depth of field—Long Range\*:

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

### Depth of field—High Visibility\*:

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

### Depth of field—Advanced Long Range\*:

15 mil	58.4-111.8 cm	23-44"
30 mil	104.1-205.7 cm	41-81"
55 mil	**215.9 cm	**85"
70 mil (retroreflective)	**581.7 cm	**229"
100 mil (retroreflective)	**820.4 cm	**323"

### Depth of field—High Density\*:

2 mil	1.8-3.9 cm	.7-1.8"
3 mil	3.8-7.0 cm	1.5-2.8"
5 mil	3.8-11.9 cm	1.5-4.7"
13 mil	3.8-14.7 cm	1.5-5.8"

\*Depth of field measured using Code 39, ANSI Grade A  
\*\* Not Specified

## Print Contrast

Minimum 40% reflectance difference (long range). Minimum 25% reflectance difference (standard range, high visibility)

## Ambient Light Immunity

Immune to direct exposure from office level lighting and sunlight

## Environment

**Operating Temperature:**  
-20° to 50°C (-22° to 122°F)

**Storage Temperature:**  
-40° to 70°C (-40° to 168°F)

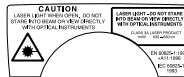
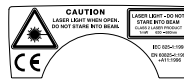
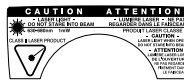
**Battery Storage Temperature:**  
-30° to 60°C (-22° to 140°F)

**Humidity:**  
0-95% non-condensing

**Durability—Scanner:**  
26 six 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). Base station rated at IP53.



## ESD:

Conforms to 15 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 60825-1, CE marked, C-Tick marked

## PicoLink™ Radio

**Range:** In excess of 15 meters (50 feet) and 200 systems within 3000 square feet.

**Frequency:** Unlicensed 2.4 GHz multi-point-to-point frequency hopping

**Power Output:** <1mW

**Data Transmission:** 1 Mb/s aggregate data rate

**Approvals:** FCC Part 15.249, ETS 300 328, RSS 210, NOM-EM-121-SCTI-1994, RCR 33

## Base Station

**Interface:** RS-232C, IBM PC XT/AT or PS/2 Mod 30 compatible, ADI 1496, Falco 5220, Harris H180, 191, IBM 3151/316X/317X/318X/319X/347X, DEC VT220/320/420 DEC PC 510/520/525 Olivetti M19, M200, M240, M250, M380, P500, Silicon Graphics Indy, Indigo II, Televideo 990, Wyse 30, 60, 85/185, 120, 150, 160, 325, 370, laptop computers, Zenith CruisePAD

**Input Devices:** Accepts separate input device through auxiliary port

**Power:** 4.5 to 14.5 VDC

**Data Formatting:** Nine complete data editing groups

## Battery Packs

600 mAh 110/240 VAC, 50Hz/60Hz, NiCad with integral charger and 8 hour charge time  
1200 mAh 110/240 VAC, 50Hz/60Hz NiMH with integral charger and 8 hour charge time

## Accessories

2-bay and 6-bay charge strips for battery packs available, vehicle mount holder for scanner, wall mount holder for scanner, belt clip for base station, wall mount clip for base station, holster and belt

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