Intermec

picolink™

Product
Profile

- Cordless design eliminates cables for safer and more reliable scanning

- Durable design with-stands 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

Sabre™ 1552 and MicroBar™ 9745

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 accep-tance 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 connec-tions 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 tempera-ture ranges, off-road vehicle levels of vibration and multiple six-foot drops to concrete.

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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);
670nm± 10nm (standard range, high
density)
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–Standard Range*:

5 mil	8.1-14.5 cm	3.2-5.7"
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 (retroflective)	190.5-408.9 cm	75-161"
100 mil (retroflective)	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–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

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
60950, EN 60825-1, CE marked, C-Tick
marked

PicoLink ™ Radio
Range: Up to 15 meters (50 feet) and 20
coexisting systems consisting of 10 nodes
each. (Maximum of 200 nodes)
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,
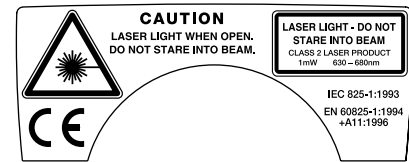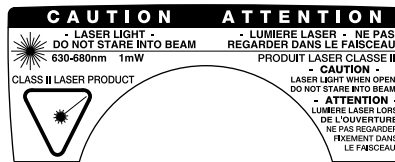RSS 210, NOM-EM-121-SCTI-1994, RCR 33

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, Apple MAC
ADB, laptop computers, Zenith Cruise Pad
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 90-135 VAC, 50Hz/60Hz,
  NiCad with integral charger and 8 hour
  charge time
- 800 mAH 90-135 VAC, 50Hz/60Hz NiMH
  with integral charger and 4 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

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

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