# Bar Code Reader
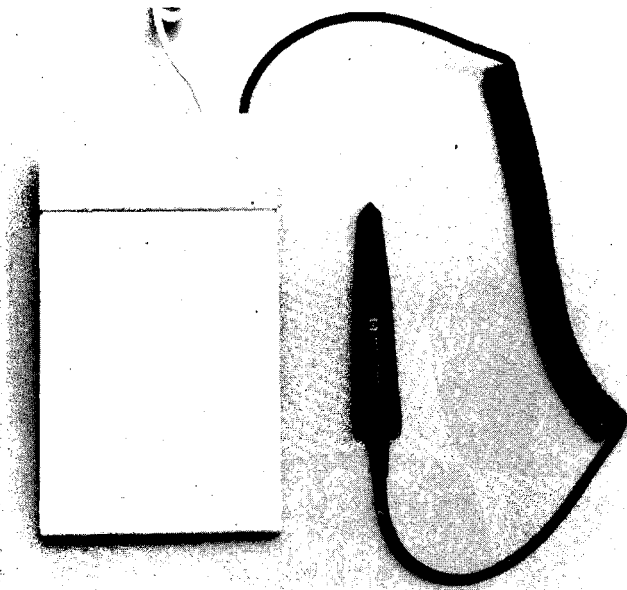
## Applications

The 92915A provides 2392A and HP 150 users with an alternative to the keyboard for many data entry applications. It speeds up data entry and greatly improves accuracy. Bar code is a plus in clerical applications using display terminals and personal computer, such as:

- order entry
- document tracking
- sample identification
- employee/job identification
- material flow
- warehousing applications
- production tracking and control
- distribution

## Introduction

The HP 92915A is a bar code reader accessory for the Hewlett-Packard 2392A Display Terminal and the HP 150 Personal Computer. This bar code reader offers terminal and computer users a fast, accurate and reliable data entry method.

The 92915A upgrades an existing data entry system without requiring any hardware or software modification.

## Features

- **Compact, easily installed**
- **No modification to host/terminal system**
- **Compatible terminals: 2392A, HP 150**
  **(models HP 45610A/45650A/45655A/45660A)**
- **Powered from the terminal**
- **Sealed tip sapphire wand**
- **Reads all popular codes:**
  - **Interleaved 2 out of 5 (USD-1)**
  - **3 of 9 code (USD-3, MIL-STD-1189)**
  - **CODABAR (USD-4 and ABC)**
  - **UPC/EAN/JAN**
- **Check digit verification**
- **Field length check**
- **Selectable terminator character**
- **Audible feedback on good reads**

## Product description

The 92915A consists of a bar code wand that is attached to a decoder pod by a coiled cable. The decoder pod is connected in series with the terminal's keyboard cable, and is powered through it. The 92915A is ready to use whenever the terminal or personal computer is powered-on.

The bar code reader beeper sounds on a correct reading, and the data is displayed on the CRT in the same way as keyboard originated data. When the bar code reader is in use, the keyboard is still in the active state, and bar code and keyboard entries can be mixed in the same application.

Code type and data integrity verification are selected by switches accessible to the user. A terminator character can be appended at the end of the data string to avoid using the keyboard when an input terminator is needed (characters: CR, Tab, Enter, or none).

*Data subject to change.*

## Wand specifications

The 92915A comes equipped with a sealed wand fitted with a replaceable sapphire tip. This wand is resistant to dust, shock and humidity and is suitable for use in office or light industrial environments.

The standard resolution is 7.5 mils. The optical and electrical properties have been especially designed to give an excellent read rate over a wide range of bar code label densities including labels generated on good quality dot matrix printers (such as the HP 2933A/2934A/2563A).

| | Wand specifications |
|---|---|
| Minimum resolution | 0.19 mm (0.0075 in) |
| Depth of field (at 0° tilt) | 0.85 mm (0.035 in) |
| Tilt angle | 0° to 45° |
| Scan speed | 7.6 to 76 cm/s (3 to 30 in/s) |
| Wand diameter | 23 mm (0.9 in) |
| Wand length | 132 mm (5.2 in) |
| Wand cable length (fully extended) | 183 cm (72 in) |
| Light wavelength | 700 nm |
| Minimum bar/space print contrast | 70% |

## Codes

The 92915A can decode the following codes:
(maximum of 31 data characters, 60 characters for CODABAR)

- Interleaved 2 out of 5 code, also known as Material Handling Institute standard USD-1 (Uniform Symbol Description), a numeric only code – 10 character set.

- 3 of 9 code, also known as M.H.I. standard USD-3, an alphanumeric code, also selected by the US Department Of Defense (DOD LOGMARS program) – 43 character set (10 numeric, 26 alpha, 7 special).

- CODABAR, also known as M.H.I. standard USD-4, a numeric code with 6 special characters, mainly used in library and some manufacturing applications.

- CODABAR ABC (American Blood Commission) a modified CODABAR code for blood bank applications.

- UPC/EAN/JAN codes (Universal Product Code / International Article Numbering system / Japanese Article Numbering system), numeric codes used in the distribution area. These codes include: UPC A, UPC E, EAN 8, EAN 13.

## Environmental

Temperature (free space ambient):
- Operating:          0°C to 55°C (32°F to 131°F)
- Non operating: – 40°C to 75°C (– 40°F to 167°F)

Relative humidity (non condensing): 5% to 95%

Altitude:
- Operating:       4600 m (15000 ft)
- Non operating: 15300 m (50000 ft)

Vibration:        30 G for 11 ms (decoder pod)

Bench handling: 100 cm drop (39 in) on every side (decoder pod)

Transportation handling: 200 cm drop (79 in) in packaging every side

## Physical

Decoder pod dimensions: 37 mm H × 120 mm W × 215 mm L (1.5 in H × 4.7 in W × 8.5 in L)

Net weight:            0.5 kg (1.1 lb)

Shipping weight:          1 kg (2.2 lbs)

## Approvals

Safety approvals:
- UL 114, UL 478 for office and EDP equipment
- CSA C22.2-154 for EDP equipment
- Designed in accordance to IEC 380 and IEC 435
RFI (radio frequency interference):
- Complies with FCC Class B and VDE level B regulations

## Ordering information

| Product | Description |
|---|---|
| 92915A | Bar code reader with wand, cables, connectors, operating and service manual |
| 16800-60010 | Replacement sapphire tip for wand |
| 03075-40006 | Wand holder |
| 5061-8647 | Replacement wand |
| 92915-90001 | Operating and service manual |
| 5953-7732 | Application note: Elements Of A Bar Code System |

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*5953-5950*