

1 GENERAL INFORMATION

1.1 Product description

This handheld RFID reader consists of a long lightweight handle with a flexible end-part (the RFID antenna) to facilitate the identification of items on all shelves, especially hard-to-reach areas.

The LHR1 is a convenient tool for library staff:

The L-HR1 Library Handheld Inventory Reader is designed to perform a variety of tasks:

- ❖ Inventory all the books on a given shelf
- ❖ Search specific books
- ❖ Tracking record the location of books on a given shelf
- ❖ Security: the L-HR1 is able to manually search items in a bag (same as the security people in the airport).

The TAGSYS Inventory Reader is connected to a Pocket PC which stores and displays item data.

The L-HR1 Reader reads the smart labels that are used to identify books.

The L-HR1 uses the coupler's RF output to radiate the magnetic field and power up the smart label, The signal is modulated by the coupler to communicate commands to the smart label. The antenna also receives modulation from the smart label acting as a field disturbing device. This signal is then delivered to the coupler. The L-HR1 can communicate to the Pocket PC via the RS232 serial port.

For more information, see user's guide at section 3.

1.2 Related Submittal(s) / Grant(s)

All host equipment used in the test configuration are FCC granted, when relevant.

1.3 Tested System Details

The FCC IDs for all equipment, plus description of all cables used in the tested system are:

See test report file.

1.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4(1992+2000), CISPR22-1997/A1:2000 and EN55022:1998/A1:2000.

Radiated testing was performed at an antenna to EUT distance of 3 and 10 meters. During testing, all equipment's and cables were moved relative to each other in order to identify the worst case set-up.

1.5 Test facility

Tests have been performed on July 7th, 2003

The test facility used to collect all the radiated and conducted data is the SMEE **Actions Mesures** facility, located ZI des Blanchisseries, 38500 VOIRON, France.

This test facility has been fully described in a report and accepted by FCC as compliant with the radiated and AC line conducted test site criteria in ANSI C63.4-1992 in a letter dated July 19, 2002 (registration number 94821).

This test facility has also been accredited by COFRAC (French accreditation authority for European Union test lab accreditation organization) according to NF EN ISO/IEC 17025, accreditation number 1-0844 as compliant with test site criteria and competence in 47 CFR Part 15/ANSI C63.4 and EN55022/CISPR22 norms for 89/336/EEC European EMC Directive application. All pertinent data for this test facility remains unchanged.

1.6 Data sheet of the L-HR1

Mechanical Characteristics

| Description | Value |
|-----------------------------------|------------------------------------|
| Size (including antenna) | 727.11mm. (28 $\frac{2}{3}$ in.) |
| Weight | Approx. 540g. (1.2 lb) |
| Recommended Operating temperature | 15°C to 25°C (59°F to 77°F) |
| Storage Temperature | -20 °C to +45 °C (-4 °F to 113 °F) |

For more information see user's guide §9.