Quick Start Guide
HS-2D Handheld Reader

MICROSCAN®

Step 1 — Check Required Hardware

HS-2D USB Hardware

1. HS-2D Handheld Reader
2. 6 ft. USB cable (pre-installed)

HS-2D RS-232 Hardware

1. HS-2D Handheld Reader
2. Cable clip attachment
3. Spacer
4. Two threaded screws
5. 8 ft. coiled RS-232 cable
6. Power supply

The RS-232 cable is affixed to the handle with two screws, a spacer, and a cable clip, which can be removed as shown here.

Refer to the *HS-2D Handheld Reader User's Manual* for information about changing or adding cables.

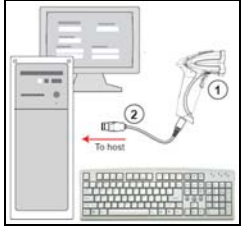
Step 2 — Set Up Hardware (USB)

Note: The USB interface draws its power from the host.

Hardware for USB

1	HS-2D Handheld Reader	98-000107-01
2	USB Cable	Included

Installation Steps for USB

1. Connect the USB cable (**2**) to the HS-2D (**1**).
2. Connect the USB cable (**2**) to the host. You do not need to power off your host computer.
3. Open any program in your host computer that can receive keyboard text.
4. Read the **Reset to USB Factory Defaults** symbol below.
5. Read the **Save Settings** symbol below.

USB Hardware

M049_03
Reset to USB Factory Defaults

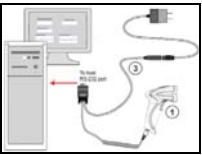**Test Symbol** (ABCDEFGHIJKLMNOP)

M188_02
Save Settings

Step 2 — Set Up Hardware (RS-232)

Hardware for RS-232

1	HS-2D Handheld Reader	98-000107-01
3	RS-232 Interface Kit (USA)	98-000074-04
	RS-232 Interface Kit (Europe)	98-000074-05
	RS-232 Interface Kit (UK)	98-000074-06

Installation Steps for RS-232

1. Power-off the host.
2. Attach the RS-232 cable to the HS-2D.
3. Connect the RS-232 cable to the power supply cable.
4. Plug in the power supply and power-on the host.
5. Open a terminal program (Hyper-Terminal, for example) and set **57.6K** baud rate, **8** data bits, **none** parity, and **2** stop bits.
6. Read the **Reset to RS-232 Factory Defaults** symbol below.
7. Read the **Save Settings** symbol below.

RS-232 Hardware

M418_02
Reset to RS-232 Factory Defaults

Test Symbol (ABCDEFGHIJKLMNOP)

M188_02
Save Settings

Step 3 — Install ESP

ESP Software can be found on the Microscan Tools CD that is packaged with the HS-2D.

1. Follow the prompts to install ESP from the CD.
2. Click on the ESP icon to run the program.

Note: ESP can also be installed from the **Download Center** at **www.microscan.com**.

Minimum System Requirements

- 166 MHz Pentium processor (Pentium II processor recommended)
- Windows Vista, XP, or 2000 operating system
- Internet Explorer 5.0 or higher
- 64 MB minimum RAM (128+ MB RAM recommended)
- 80 MB hard drive space
- 800 x 600 minimum 256 color display (1024 x 768 32-bit color recommended)

Important: The reader must be in USB or RS-232 Mode to connect to **ESP**. Read the symbol below that corresponds with your communication interface.
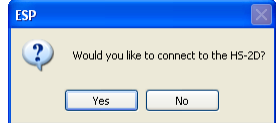
 USB Mode

 RS-232 Mode

Step 4 — Select Model

When you start **ESP**, the following menu will appear:
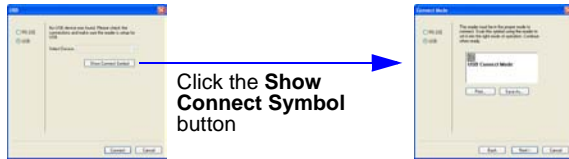

1. Click the HS-2D button and then click **OK**. If you do not want to make this selection every time you start **ESP**, uncheck "Show this dialog at startup".
2. Select the default reader name (**HS-2D-1**), or type a name of your choice in the **Description** text field and click **OK**.
3. Click **Yes** when this dialog appears:

Step 5 — Select Protocol

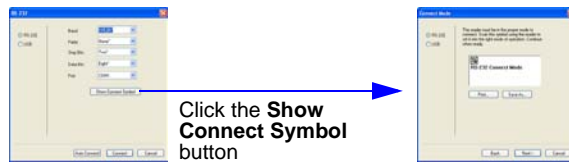Select the communications protocol you are using and click **Next**.

USB

Click the **Show Connect Symbol** button

1. You will see the **USB Connect Mode** symbol. Print and decode this symbol (if you have not already done so in Step 3) to ensure that you are in the correct communications mode. Keep the printed symbol in a convenient place for future use. Click **Next** when you are finished.

2. You will then see your reader's ID in the **Select Device** field. Click **Connect**.

RS-232

Click the **Show Connect Symbol** button

Print and decode the **RS-232 Connect Mode** symbol (if you have not already done so in Step 3) and decode it with the reader to ensure that you are in the correct communications mode. Keep the printed symbol in a convenient place for future use. Click **Next**, and then **Connect**.

Step 6 — Connect to ESP

USB

Once you have clicked **Connect** in the USB reader ID dialog (**Step 5**), the **CONNECTED** message will appear in a green box in the status bar at the bottom right of the screen.

CONNECTED	USB HID

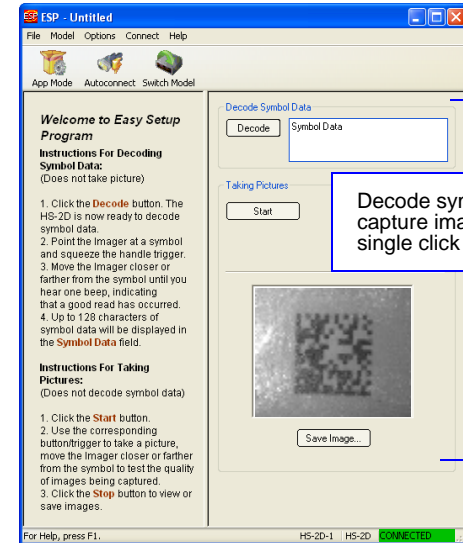You are now ready to configure the USB HS-2D using **ESP**.

RS-232

Once you have selected RS-232 settings and COM port and clicked **Connect**, the **CONNECTED** message will appear in a green box in the status bar at the bottom right of the screen.

CONNECTED	Point-to-Point	COM1	115.2K : N : 8 : 1

You are now ready to configure the RS-232 HS-2D using **ESP**.

Step 7 — Configure the Reader

ESP's **EZ Mode** is the first view that appears once you are connected. This view features simple instructions as well as tools for decoding symbol data and taking image captures.

Decode symbols and capture images with a single click in **EZ Mode**.

From here, you can click on **App Mode** to access tree controls and graphic user interfaces with more comprehensive configuration options.

Step 8 — Practice Targeting

The HS-2D features two converging target LEDs to indicate optimal read range. The red and green target LEDs will converge when the reader is held the optimal distance from the symbol.

Too far from symbol

Too close to symbol

Optimal distance – 2.3" (5.8 cm)

Test Symbol
(ABCDEFGHIJKLMNOP)