Quick Start Guide
ID Imager Series
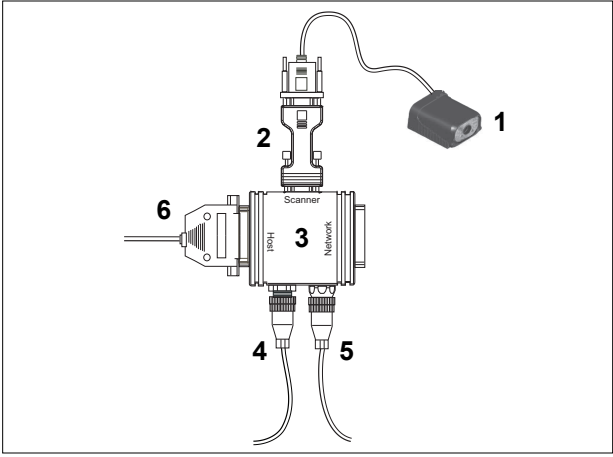
ID-05
di-soric

WARRANTY

Standard Warranty: One Year

All di-soric products are backed by a one-year standard warranty. Full warranty details are online at
www.di-soric.com

Step 1 — Check Hardware

Hardware Required

Item	Description	Part Number
1	MINI Imager	ID-04-IM1-x-x
2	Adapter 24V to 5V DC	VSID-A-24/5V-S
3	Interface Box	VSID-IB-S
4	Power SupplyM12, 3 poled	VSID-PS-IB
5	Object Detector	
6	Connecting cable 1.8 m	VSID-K-25S/9K-2

Step 2 — Connect the System

Connecting by RS-232 / RS-422 / RS-485

- Connect the imager (**1**) to the VSID-IB-S/ VSID-A-24/5V-S interface (**2**) and (**3**).
- Connect the communication cable (**6**) to the host, and to the host port on the VSID-IB-S.
- Connect the object detector (**5**) to the VSID-IB-S.
- Connect the power supply (**4**) to the VSID-IB-S.
- Apply power to the imager.
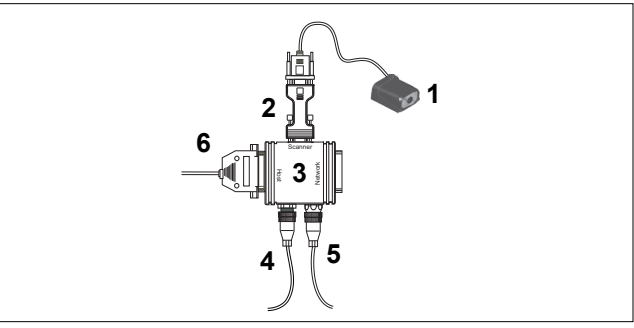
Hardware Configuration

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Step 3 — Position Imager

- Place the imager and test symbol in a location with as little ambient light as possible.
- Position the imager at a focal distance between **2"** and **6" from the symbol**.
- Tip the imager relative to the symbol to avoid glare from specular reflection. Avoid excessive skew or pitch. Maximum skew is **±30°**; maximum pitch is **±30°**).
- Symbols can be rotated (tilted) at any angle; however, for best results symbols should be aligned with the FOV (field of view). In the case of linear symbols, aligning the bars in the direction of their movement ("ladder" orientation) will minimize the chances of blurring and No Reads.

Parting Line
Stand
±30°
Focal distance
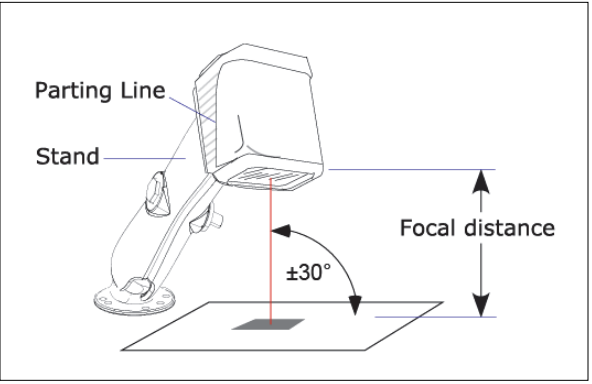
Imager / Symbol Positioning

Step 4 — Install di-soric ID

di-soric ID Software can be found on the di-soric Tools USB Stick that is packaged with the imager.

1. Follow the prompts to install di-soric ID Software from the USB Stick
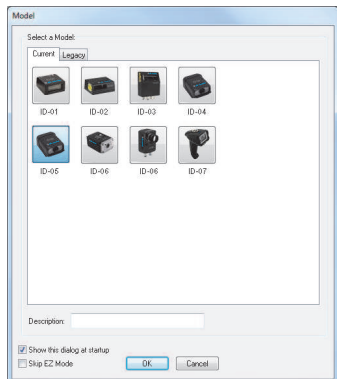2. Click on the di-soric ID icon to run the program.

ID

Note: di-soric ID Software can also be installed from the **Download Center** at **www.di-soric.com**.

Refer to the user's manual for detailed information about using di-soric ID to configure the imager.

Step 5 — Select Model

When you start **di-soric ID**, this menu will appear:

1. Click the button showing the imager used in your application.
2. Click **OK**.
   Note: You can also simply double-click the button showing your imager to make your selection.
3. Click **Yes** when this dialog appears:

Note: If you need to select another model later, click the **Switch Model** button near the top of the screen or use **Model > New Model** in the menu toolbar.
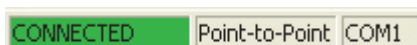
Step 6 — Connect

To connect using the Connection Wizard:
- Click **Connect** on the menu toolbar, and then select **Connection Wizard**.
- Select **RS-232 or USB**.
- Configure settings as required by the application, and click **Connect**.
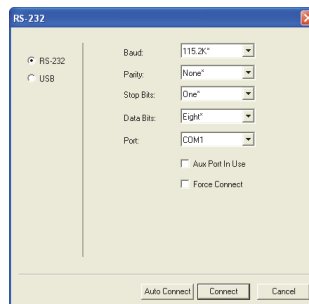
- When a connection is established, the green indicator in the status bar at the bottom right of the screen will be visible:

Important: The imager is in **Continuous Read Mode** by default. For best connection results, be sure that no decodable symbols are within the imager's field of view while attempting to connect.

Step 7 — Locate the Symbol

Locate by di-soric ID
- In **di-soric ID**'s **EZ Mode**, click the **Locate** button to enable the blue target pattern.
  The symbol in the field of view will appear in the video view beneath the **Locate** and **Calibrate** buttons, and you will see the blue target pattern projected from the front of the imager.
- Center the target pattern on the symbol.
  At 2 to 3 inches, the pattern resembles an **X**. At 3 to 6 inches, the pattern resembles a **V**.
  Important: The entire symbol should fall within the field of view (FOV) of the imager. The field of view is what appears in **di-soric ID**'s **Locate/Calibrate** window in **EZ Mode**.

- Click the **Stop** button to end the **Locate** function.

Locate by EZ Button
If you are not connected to a host computer, the EZ Button allows you to locate the symbol in the imager's field of view.
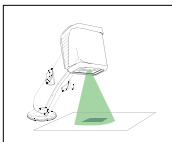- Hold down the EZ Button for about one second and release when you hear one short beep. The amber **20%** LED will illuminate, and you will see the blue target pattern projected from the front of the imager.
- Center the target pattern on the symbol.
  Note: To end all EZ Button functions, press the EZ Button once and quickly release.

Step 8 — Calibrate

Imager settings can be adjusted automatically for optimum performance by either the EZ Button or by **di-soric ID**.
During the calibration routine, the imager will flash its Read Rate percent LEDs and illumination LEDs while searching camera settings and determining the best configuration for decoding symbol data. Upon successful completion of this routine, a green LED pattern will flash brightly and illuminate the symbol. If unsuccessful, the imager will emit 5 short beeps and stop searching.

Calibrate by EZ Button
1. Hold down the EZ Button for about two seconds and release when you hear **two short beeps**. The **20%** and **40%** LEDs will illuminate.
2. The imager will search camera settings to determine the best configuration for decoding symbol data.
   Note: To end all EZ Button functions, press the EZ Button once and quickly release.

Calibrate by di-soric ID
1. Click the **Calibrate** button.
2. The imager will search camera settings to determine the best configuration for decoding symbol data.
   A successful calibration will display a green frame around the symbol, and the following message will appear: "Uploading all reader parameters." After a moment the symbol data will be presented in the field below the image display window.

Calibrate by Serial Command
Send **<@CAL>** from a terminal program to begin calibration.

Step 9 — Test Read Rate

Read Rate indicates the number of successful decodes per second achieved by the imager.

Test Read Rate by EZ Button
1. To start the Read Rate test, hold down the EZ Button about three seconds until you hear **three short beeps**. The **20%**, **40%**, and **60%** LEDs will illuminate. While the object is being inspected, the Read Rate LEDs will indicate the read rate percentage on the back of the unit.
2. To end the Read Rate test, press the EZ Button and quickly release.

Test Read Rate by di-soric ID
1. Click the **Test** button to start the Read Rate test and **Stop** to end it.

If a symbol has been successfully decoded, its data and related features will be presented in the field below the image display window. Also, while the object is being inspected, the Read Rate LEDs will indicate the Read Rate percentage on the back of the unit.

2. To end the test, click the **Stop** button.
   Note: Read Rate can also be tested using the **Read Rate** interface in **Utilities**.
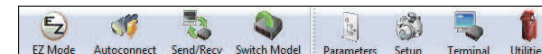
Test Read Rate by Serial Command
You can also start a test with the **<C>** or **<Cp>** command and end it with the **<J>** command.

Step 10 — Configure and Save

Click the **App Mode** button to make configuration changes to the imager.

The following modes are accessible by clicking the buttons at the top of the screen:

- Click the **EZ Mode** button to return to EZ Mode.
- Click the **Autoconnect** button to establish communication.
- Click the **Send/Recv** button to send or receive commands.
- Click the **Switch Model** button to open the model menu, or to return to a previous model.
- Click the **Parameters** button to show the tabbed tree controls for Communication, Read Cycle, Symbologies, I/O Parameters, Symbol Quality, Matchcode, and Diagnostics.
- Click the **Setup** button to access a Camera Setup tree control and Video view, Evaluate image captures, Calibrate the imager, set the Window of Interest, load capture settings and processing settings in Configuration Database, set up output filters and parse symbol data in Ordered Output and Output Format, and control multiple read cycle functions in Dynamic Setup.
- Click the **Terminal** button to display decoded symbol data, and to send serial commands to the imager using text or macros.
- Click the **Utilities** button to test Read Rate, request or clear Counters, enable or disable the imager or send output pulses in Device Control, determine the Differences from Default in the current settings, add or remove master symbol data in Master Database, and verify or update the imager's Firmware.

For further details, see **di-soric ID Help** in the dropdown Help menu.