



EasySet User Guide

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Revision History

Version	Date	Changes	Author
A	12/23/2019	Initial version	CB
B	01/21/2020	Added PNs under Supported Products.	CB
C	04/22/2021	Added cable lengths under section 1.1: Supported Interfaces	CB

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1. Introduction

EasySet is a configuration tool for the FX200 handheld barcode scanner. EasySet allows users to:

- View device and configuration information online
- Configure devices
- Update online device firmware
- Load or modify existing XML configuration files; save current settings to XML files
- Create, print, and save programming barcodes to PDF or Word files
- View, edit, and save images stored on online devices in the original image format
- Send serial commands to online devices and receive device responses
- Supported languages: Chinese and English

1.1. Supported Interfaces

EasySet supports 32-bit and 64-bit Microsoft WinXP/Win7/Win 8/Win 8.1/Win 10 operating systems. EasySet can communicate with devices via the following interface:

- RS-232 (cable length: six feet)
- USB COM Port Emulation (udp_and_vcom_drv required)
- USB CDC (CDC - Virtual COM Driver required)
- USB DataPipe (udp_and_vcom_drv required)
- USB HID-POS (cable length: 18 inches)

1.2. Supported Products

- Fixed mount barcode scanners: IDBB-6642LRB/IDBB-6622LRB

1.3. Driver Installation

EasySet requires users to install a UFCOM driver to function. Follow the steps below to install it:

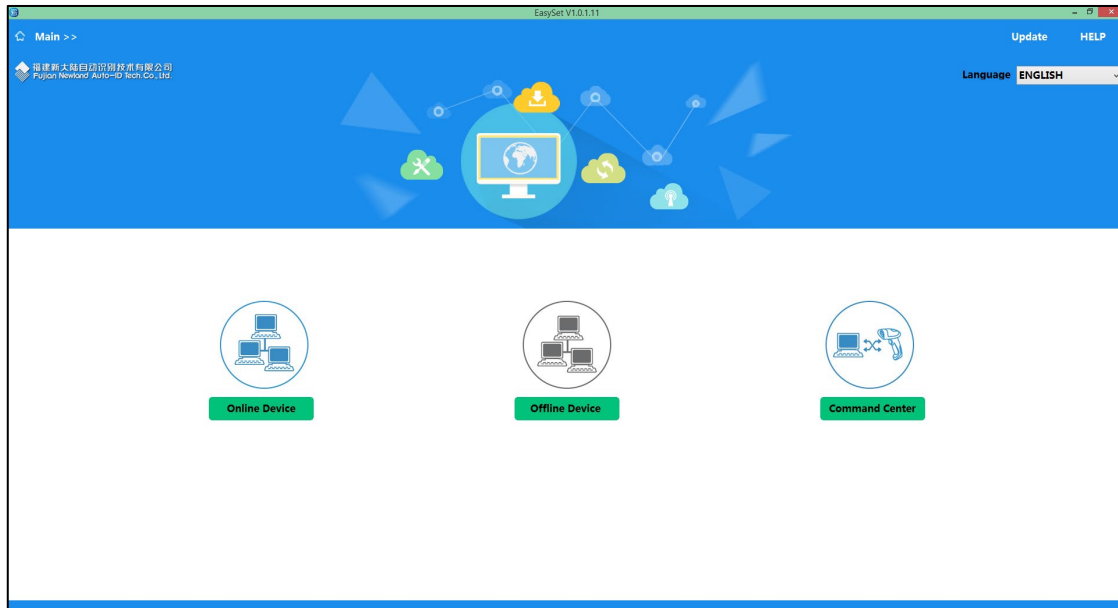
1. Install the EasySet application.
2. Navigate to the EasySet installation directory.
3. Open **ufcom.zip** and extract it.
4. Double-click **install.cmd** to install the UFCOM driver.

2. Using EasySet

The following sections describe general EasySet functionality.

2.1. Main Page

Install EasySet on your PC by following the on-screen instructions. When you start EasySet, it will display the Main page as shown below.



2.1.1. Working mode

EasySet provides three working modes: Online Device, Offline Device, and Command Center.

- **Online Device:** Use this mode to configure and update firmware for on. To use this mode, you must connect the target device to your computer.
- **Offline Device:** Use this mode to configure offline devices.
- **Command Center:** Use this mode to configure or control a device by sending serial commands to it. To use this mode, you must connect the target device to your computer.

2.1.2. Languages

EasySet supports Chinese and English. To set the language, click the arrow icon next to **Language** in the upper-right corner of the Main page and then select the desired language.

2.1.3. Update

To update to the latest version of EasySet, click **Update** in the upper-right corner of the Main page.

2.1.4. Help

To view the *EasySet User Guide*, click Help in the top-right corner of the Main page or press **F1**.

2.1.5. Returning to Previous Pages

EasySet displays the navigation path (**Main>> Online Device>>**) in the top left corner of every page.

To quickly go back to a page within the path, click on the corresponding path location.

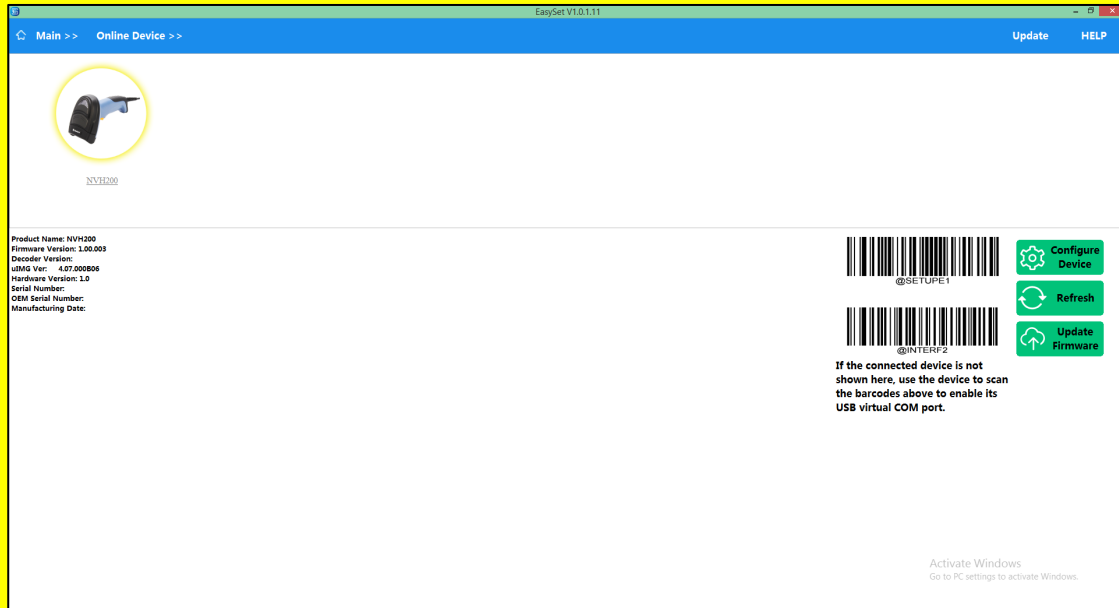
2.2. Online Device Page

The Online Device working mode allows users to view device information, configure devices, update firmware, load or modify existing XML configuration files, and create, print, and save programming barcodes to a PDF or Word file.

To use this mode

1. Connect the target device via RS-232, USB COM Port Emulation (udp_and_vcom_drv required), USB CDC (CDC - Virtual COM Driver required), USB DataPipe (udp_and_vcom_drv required), or USB HID-POS interface
2. Start the EasySet application and click **Online Device** to open the Online Device page. All detected devices will appear on the Online Device page.

Note: Scan the barcodes on the **Online Device** page to quickly enable the USB COM Port Emulation feature. USB COM Port Emulation, USB CDC, and USB DataPipe require the UFCOM driver.



2.2.1. Device Information

To view the product information of a device, click on that device on the Online Device page. Product information includes product model, firmware version, hardware version, serial number, manufacturing date, and so on.

2.2.2. Refresh

To detect the devices connected to the computer, click **Refresh** on the Online Device page.

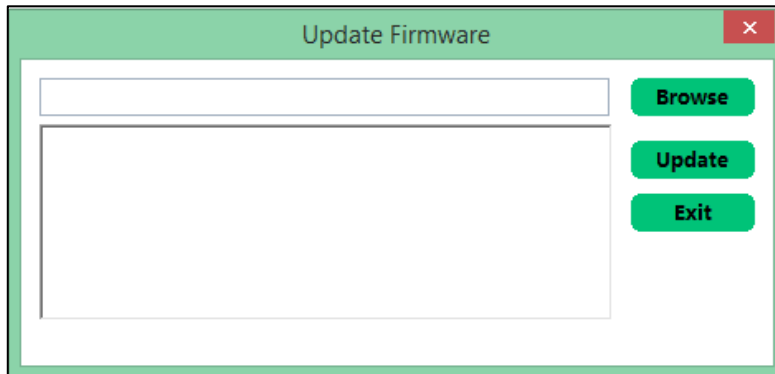
2.2.3. Configuring Device

To configure a device

1. Select that device on the Online Device page.
2. Click **Configure Device** or double-click the target device to open the Configure Device page
3. The device's configuration information is automatically loaded into EasySet.
4. Set the parameters as per actual needs on the Configure Device page.

For more information, see the [Configure Device Page](#) section.

2.2.4. Updating Firmware

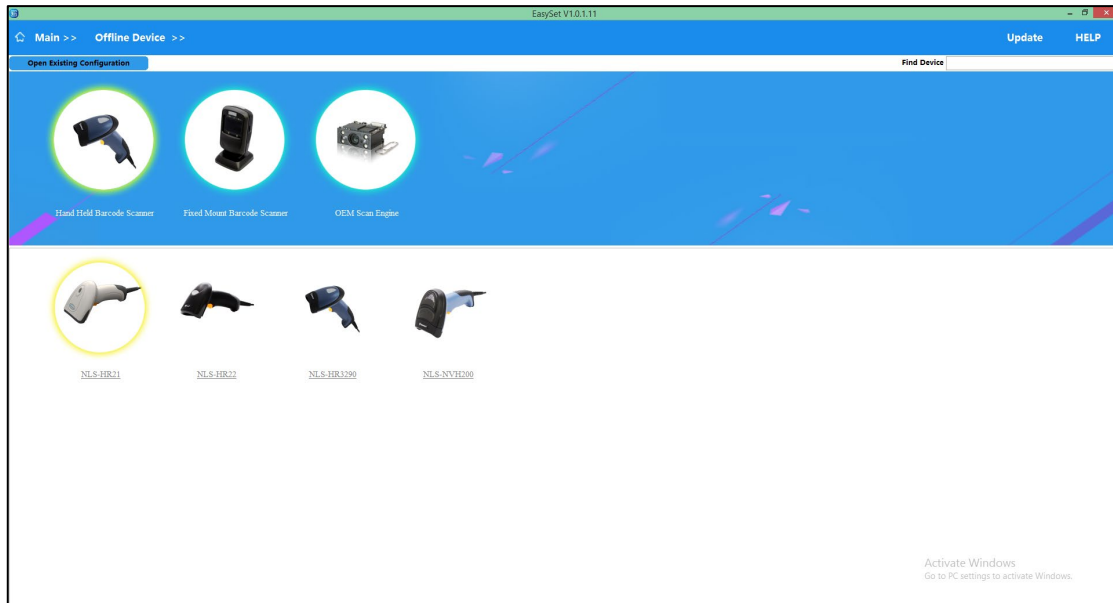


To update device firmware:

1. Select the target device.
2. Click **Update Firmware** on the Online Device page.
3. Click **Browse**.
4. Select the desired firmware file.
5. Click **Update**.

2.3. Offline Device Page

The Offline Device working mode allows users to set offline device parameters, save current settings to an XML file, load or modify existing XML configuration files, and create, print, and save programming barcodes to a PDF or Word file. To use this mode, click **Offline Device**.



2.3.1. Selecting a Device

To select a device to configure:

1. Go to the **Offline Device** page.
2. Select the desired device type.
3. Double-click the desired device to open the **Configure Device** page.
4. Set the parameters as desired.

2.3.2. Finding a Device

To search for a device:

1. Go to the **Offline Device** page.
2. Enter the desired product model (such as HR22) in the **Find Device** field.
3. Double-click the matching device to open the **Configure Device** page.
4. Set the parameters as desired.

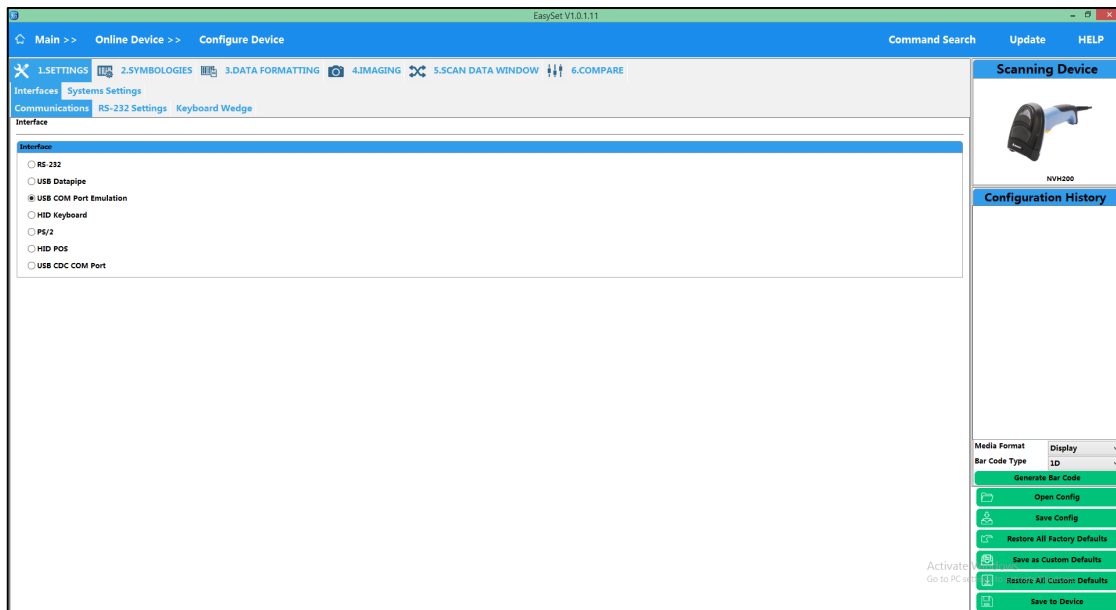
2.3.3. Loading an Existing Configuration File

To load an existing or external configuration file:

1. Go to the Offline Device page.
2. Click **Open Existing Configuration** in the upper-left corner.
3. Select the desired configuration file and then click **Open**.
4. When EasySet displays the Configure Device page according to the configuration file, modify the configuration as desired.

2.4. Configure Device Page

There are six tabs on the Configure Device page: **1.SETTINGS**, **2.SYMBOLOGIES**, **3.DATA FORMATTING**, **4.IMAGING**, **5.SCAN DATA WINDOW**, and **6.COMPARE**.



2.4.1. Setting a Device

The **1.SETTINGS**, **2.SYMBOLOGIES**, and **3.DATA FORMATTING** tabs on the Configure Device page are used for device settings:

- **1.SETTINGS:** Modify communication interface settings (interface type, RS-232 settings, keyboard wedge, PS/2 settings) and system parameters (settings, scan settings, hardware).
- **2.SYMBOLOGIES:** Modify symbology settings (global settings, 1D, 2D, OCR, Postal).
- **3.DATA FORMATTING:** Modify prefix/suffix, Code ID, data formatter, data cut out/data packing, and driver's license code settings.

There are several control types:

- **Radio button:** Select one option from a set.

The screenshot shows a control panel titled "Interface" with five radio button options:

- RS-232
- USB COM Port Emulation
- HID Keyboard
- PS/2
- HID POS

- **Toggle switch:** Click on On or Off to turn the feature on or off.

The screenshot shows a control for "Code 11 Decoding" with a toggle switch. The switch is currently in the "On" position. To the right of the switch, it says "Default: 1".

- **Dropdown list:** Select an item from a dropdown list.

The screenshot shows a dropdown menu for RS-232 settings. The "Baud Rate" dropdown is open, showing options: 1200, 2400, 4800, 9600 (selected), 14400, 19200, 38400, 57600, and 115200. To the right of the dropdown, it says "Default: 3". Other settings like "RS-232 Check", "RS-232 Stop Bits", "RS-232 Data Bits", and "RS-232 RTS/CTS Flow Control" are visible with their respective default values.

- **Custom dropdown list:** When selecting the **Custom** item from a dropdown list, enter a value within the given range in the lower field.

The screenshot shows a control for "Sensitivity(Auto Scan Mode)" with a dropdown menu set to "Enhanced". Below the dropdown is a text input field containing the number "2". To the right, it says "Default: 2 Range: 1-16".

- **DEC edit field:** Enter a decimal value within the given range.

The screenshot shows four DEC edit fields:

- Top of Central Area: 40 (Default: 40 Range: 0-100)
- Bottom of Central Area: 60 (Default: 60 Range: 0-100)
- Left of Central Area: 40 (Default: 40 Range: 0-100)
- Right of Central Area: 60 (Default: 60 Range: 0-100)

- **HEX edit field:** Enter the hexadecimal value for each desired ASCII character in the left field, then the corresponding character(s) will display in the right box.

The screenshot shows three HEX edit fields:

- Code128: 6A (Default: 6A Range: 01-ff Length: 2) with character 'j' displayed.
- GS1-128 (UCC/EAN-128): 6A (Default: 6A Range: 01-ff Length: 2) with character 'j' displayed.
- EAN-8: 64 (Default: 64 Range: 01-ff Length: 2) with character 'd' displayed.

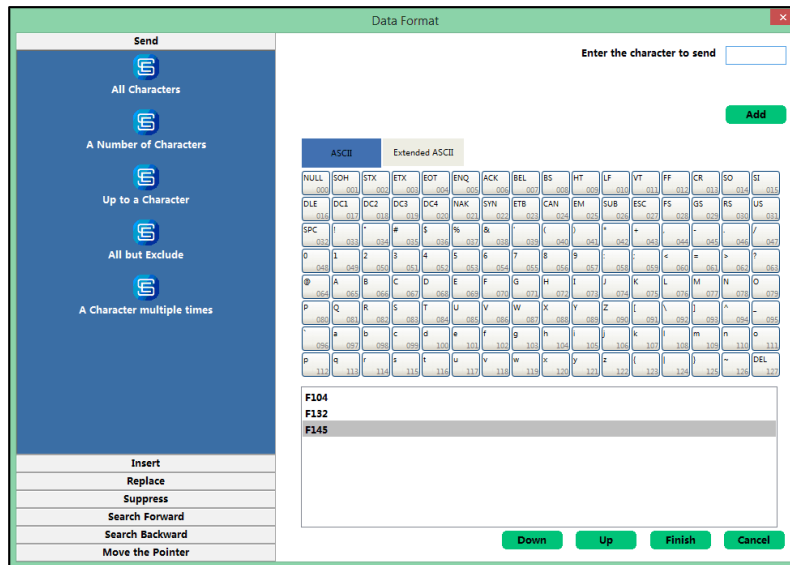
- **Button:** Click on the button to send the corresponding command.

The screenshot shows a green button with the text "Restore Code ID Default".

- **Tooltip:** Hover over a parameter or option for a second, then the corresponding command will appear in tooltip.

The screenshot shows a control for "Code 11 Decoding" with a toggle switch. Below it is a "Minimum" input field with the value "2". A tooltip is visible over the input field, showing the command "C11ENA". To the right, it says "Default: 2 Range: 1-255".

- Data format editing:** To enter a command, select the command on the left, click on the desired characters on the on-screen keyboard (if more than one character is needed), then click **Add**.



In Online Device mode, EasySet loads both configuration parameters and default data and factory values from the connected device. When opening an external or existing configuration file, Easyset loads configuration data from the file.

In Offline Device mode, EasySet loads both configuration parameters and default data and factory values from the device’s internal configuration file. When opening an external or existing configuration file, Easyset loads configuration data from the external file while retrieving configuration parameters and factory default values from its internal configuration file.

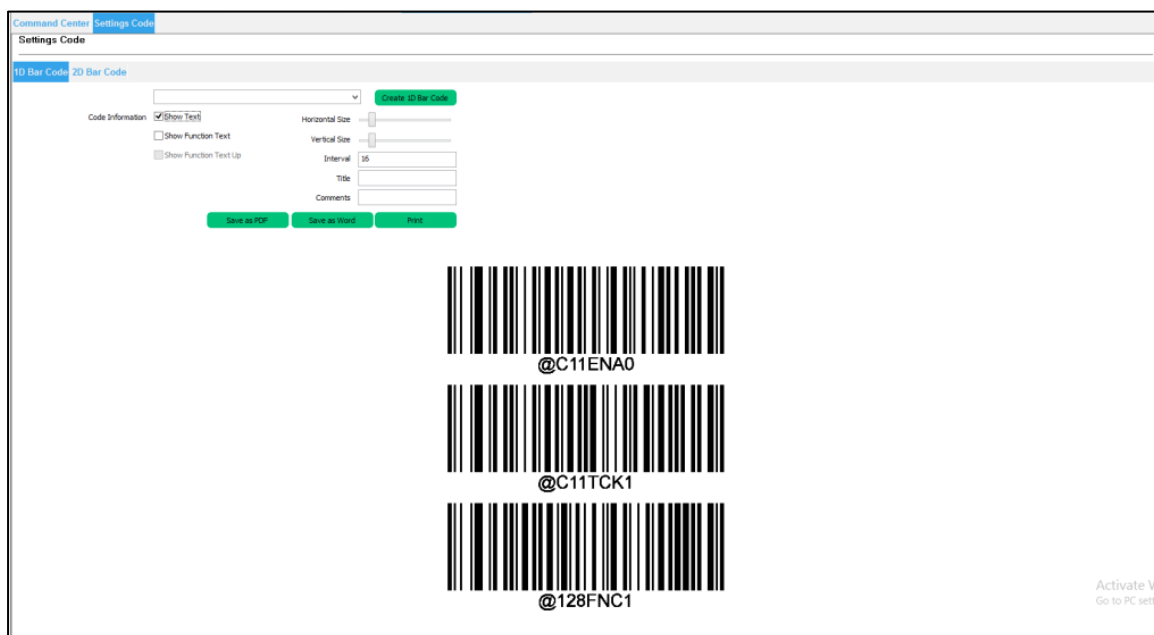
2.4.2. Configuration History

The Configuration History field shows all modified settings. To undo a change, click on **Undo** next to the desired parameter.



Configuration History can also create the programming barcodes needed for modified settings. To create programming bar codes:

1. Click **Generate Bar Code** at the bottom of the Configuration History field.
2. Set the values on the Settings Code screen as desired.
3. Print out or save the programming barcode sheet as a PDF or Word file by clicking the respective buttons.



2.4.3. Compare

The **6.COMPARE** tab allows users to compare a device's current settings to the factory default settings by clicking **Default Vs Current**.

In Offline Device mode, users can also compare current settings to an external configuration file by clicking **XML Vs Current** > **Browse Xml** and selecting the desired configuration file.

To view the Matched or Unmatched Settings tables, select **Show Match Settings** or **Show Unmatched Settings**.

Command	Default	Current
UPC-E Extend	0	0
UPC-E Invariable	1	1
Add-On Code Required	0	0
5 Digit Add-On Code	0	0
2 Digit Add-On Code	0	0
Transmit Check Digit	2	2
UPC-E Decoding	1	1
UPC-E Invariable	0	0
Add-On Code Required	0	0
5 Digit Add-On Code	0	0
2 Digit Add-On Code	0	0

Command	Default	Current
Interface	2	2
Code 128 Decoding	1	0
Transmit Check Digit	1	1
Code 11 Decoding	1	0

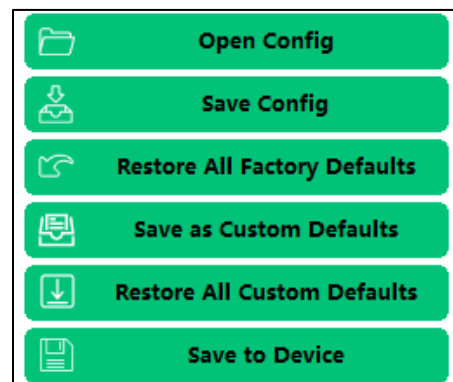
To change some or all current settings to factory defaults or external configuration settings, select the desired (or all) items in the Unmatched Settings table and click **Clone**.

2.4.4. Configuration Management

The Configuration Management area has different options depending on the current mode.

Online Device mode options:

- **Open Config:** Click **Open Config**, select a configuration file, and click **Open** to load a configuration.
- **Save Config:** Click **Save Config**, enter a file name, and **Save** to save the current settings as an XML file.
- **Restore All Factory Defaults:** Click **Restore All Factory Defaults** to reset the current device settings to factory defaults.
- **Save as Custom Defaults:** Click **Save as Custom Defaults** to save the current settings for the



connected device as custom defaults while keeping its configuration data intact.

- **Restore All Custom Defaults:** Click **Restore All Custom Defaults** to restore the connected device and the current settings to custom defaults.
- **Save to Device:** Click **Save to Device** to save the modified settings to the connected device.

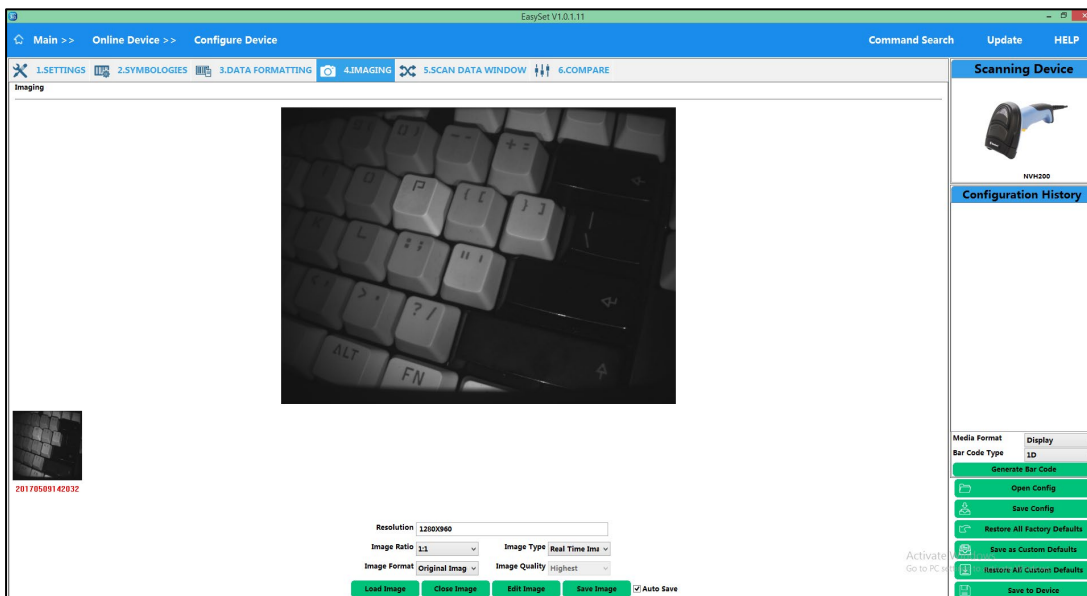
Offline Device mode options:

- **Open Config:** Click **Open Config**, select a configuration file, and click **Open** to load the configuration.
- **Save Config:** Click **Save Config**, enter a file name, and **Save** to save the current settings as an XML file.
- **Restore All Factory Defaults:** Click **Restore All Factory Defaults** to reset the current device settings to factory defaults.



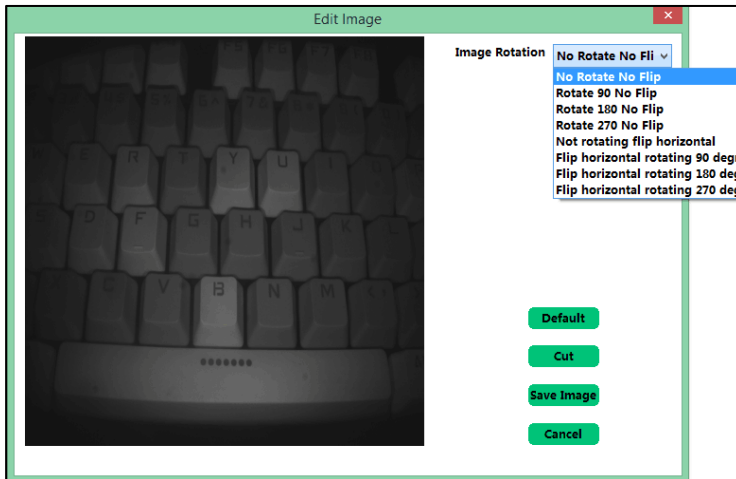
2.4.5. Imaging

4.IMAGING tab features include viewing, editing, and saving images stored on the device in the original image/BMP/JPG/TIFF format. The **4.IMAGING** tab is only available in Online Device mode.



- **Viewing images:** To view or decode a real-time image stored on the connected device, select **Real Time Image/Decode Image** from the **Image Type** dropdown list, choose the desired image ratio, and click **Load Image**.
- **Closing images:** To close one image, double-click its thumbnail. To close all images, click **Close Image**.

- **Saving an image:** To save the current image, select the desired image format, click **Save Image**, enter a file name, and click **Save**.
 - **Note:** To automatically save images loaded by the **Load Image** button, check the **AutoSave** option; EasySet saves images to the **AutoSave** folder under the installation path.
- **Editing an image:** To edit the current image, click **Edit Image**, then edit the image in the pop-up Edit Image dialog as desired.



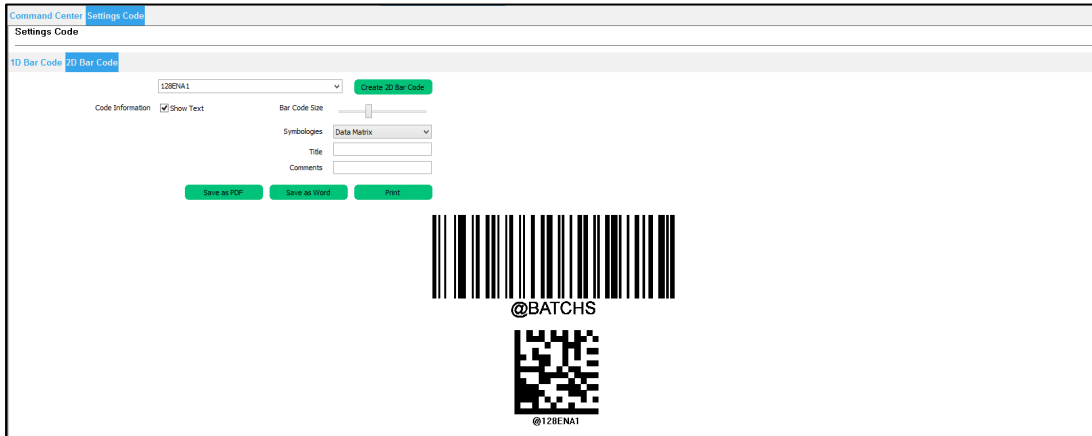
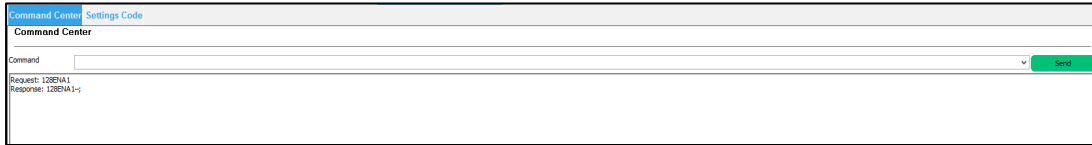
2.4.6. Scan Data Window

Features in the **5.SCAN DATA WINDOW** tab include the ability to send serial commands to the device and to receive device responses (only available in Online Device mode), and creating, printing, and saving programming barcode sheets that represent serial commands.

Command Center: Send one (e.g., 128ENA1;) or more (e.g., 128ENA1;CID12841;) serial commands to the connected device and receive device response displayed in the log below. Note that every serial command must be terminated by a semicolon (;) and capitalized.

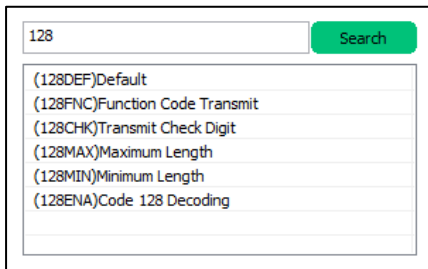
Settings Code: Create, print, and save a 1D or 2D programming barcode sheet that represents one or more serial commands entered. Create a 1D programming barcode sheet for a single serial command;

create a 2D programming barcode sheet for both single or multiple serial commands. Note that every serial command must be terminated by a semicolon (;) and capitalized.



2.4.7. Command Search

To find a command, click **Command Search** in the upper-right corner of the Configure Device page, enter a keyword, and click **Search** in the pop-up field. Double-click a search result to quickly locate the corresponding parameter on the Configure Device page.

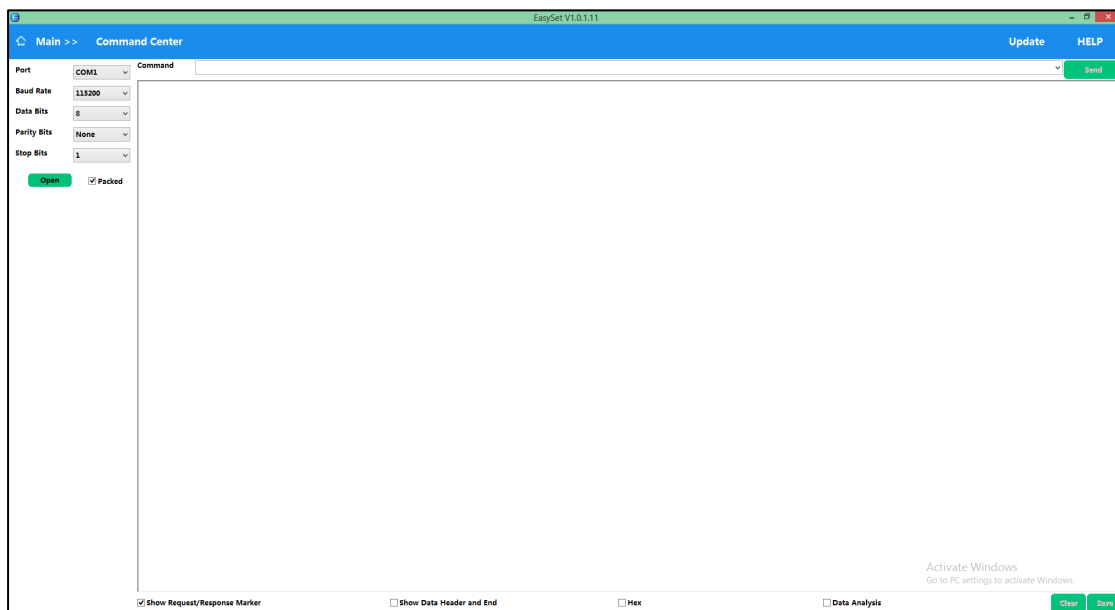


2.5. Command Center Page

The Command Center working mode allows users to send serial commands to a device and receive device responses displayed in a log. To use the Command Center mode:

1. Connect a device to the computer via RS-232, USB COM Port Emulation (udp_and_vcom_drv required), USB CDC (CDC - Virtual COM Driver required), USB DataPipe (udp_and_vcom_drv required), or USB HID-POS interface.
2. Start Easyset and click **Command Center** to open the Command Center page.

Note: Devices connected to a computer via RS-232 must have all communication parameters (such as baud rate, data bits, parity bits, and stop bits) on the Command Center page set to match the device.



To send one (e.g., 128ENA1;) or more (e.g., 128ENA1;CID12841;) serial commands to a device:

1. Select the COM port connected to that device.
2. Input the commands in the **Command** field.
3. Click **Send**.

If **Packed** is checked, commands are sent to the device packed; make sure to select the COM port connected to that device. Otherwise, the original commands are sent.

If **Data Analysis** is checked, EasySet uses Data Packing (command:PACKAG) to analyze the data received from the device.