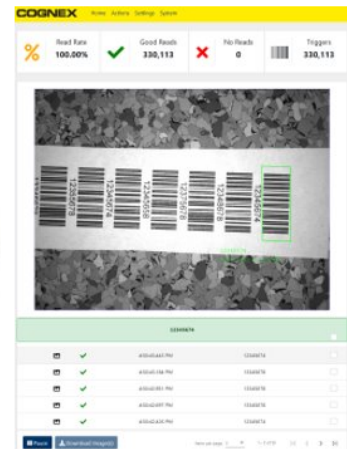


## DataMan<sup>®</sup> Web HMI Reference Manual



2021 August 04  
Revision: 6.1.10-SR3.2

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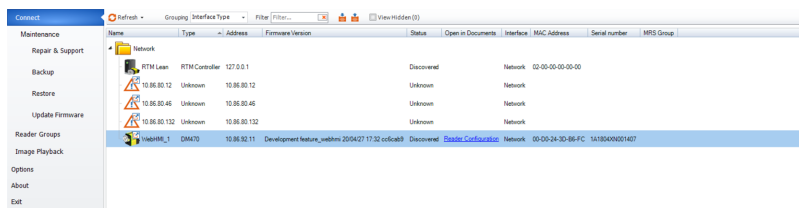
# Overview

DataMan Web HMI allows to connect to an Ethernet-based DataMan reader from a web browser. DataMan Web HMI can be used as a runtime user interface or for service operation to visualize camera images, barcode strings, result history, performance statistics, and device information. Optional plug-in functionality allows to view live images, auto-tune, view and change reader settings, or save/ load configuration files.

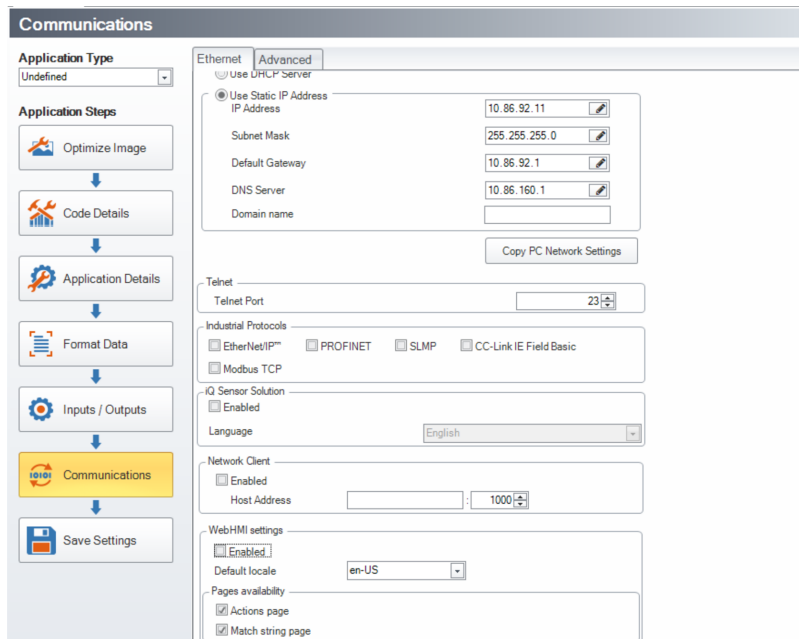
Supported web browsers	Google Chrome 61 or later Mozilla Firefox 75 or later Microsoft Edge 37 or later Apple Safari 13 or later
Recommended number of connections	1
Supported platforms	DataMan 370 and 470 Series
Connection interface	Ethernet

## Connecting

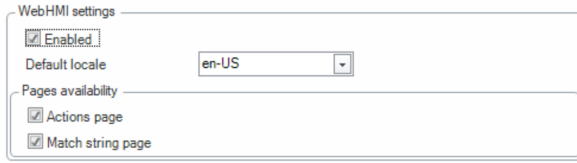
1. Open Setup Tool.
2. Select and connect to the reader to which WebHMI is to be enabled.



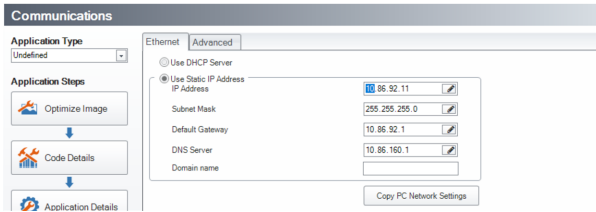
3. Click **Communications** under **Application Steps**.



4. On the **Ethernet** pane, enable WebHMI under **WebHMI settings**.



5. Check the IP Address of the reader.

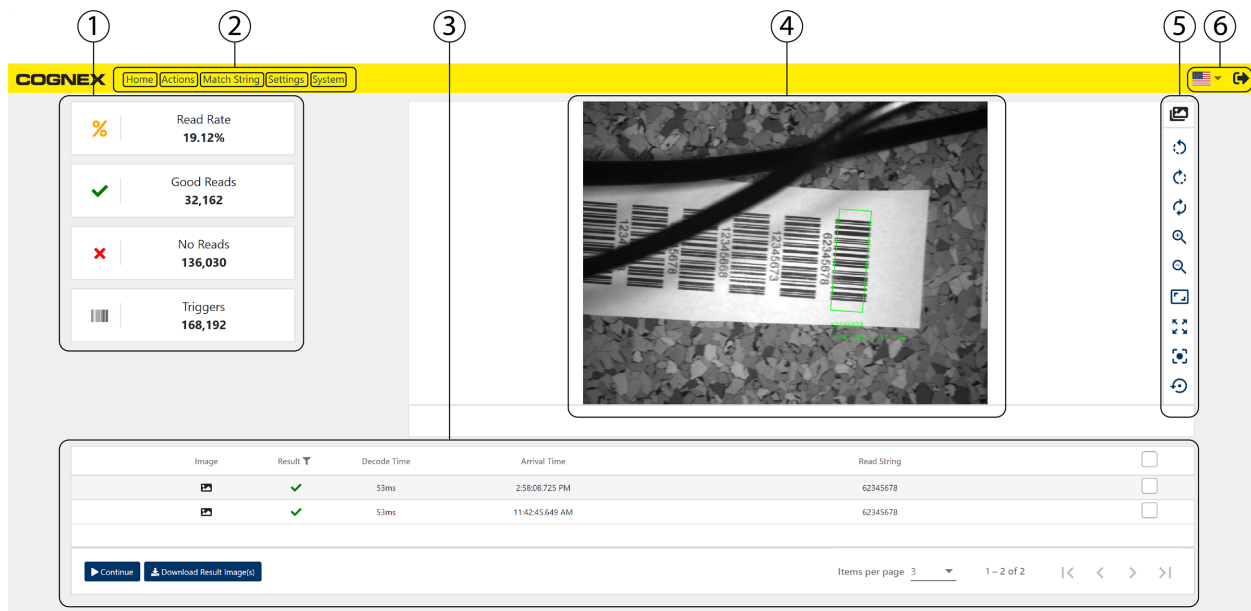


6. Open a supported web browser.

7. Enter the IP address of the reader into the URL field of the web browser and hit **Enter**.

## Screens

### Home



1	Statistics	Shows reader statistics and trigger information.
2	Menu	Home, Actions, Match String, Settings, and System page view tabs.

3	Result History	<p>Lists the last 50 trigger results with corresponding details. Images can be selected and downloaded.</p> <p>Columns:</p> <ul style="list-style-type: none"> <li>- Image: image data available</li> <li>- Result: good read, no read, quality failure, validation failure</li> <li>- Decode time: amount of time needed for the decoding</li> <li>- Arrival time: the time when the image arrived</li> <li>- Read string: the code string being read</li> </ul> <p>Options:</p> <ul style="list-style-type: none"> <li>- Up to 50 customizable results stored in history</li> <li>- Filter option to control what images get stored in result history (e.g. store only no-read images). Click the filter icon next to <b>Result</b> to configure</li> <li>- Browsing result history: set items per page, navigate to next/previous/ first/ last result page</li> <li>- Pause/ Continue: pause/continue result infeed into results history</li> <li>- Download Result Image(s): download images (select single or all), only available when result infeed into results history is paused</li> </ul>
4	Last Trigger Result View	Shows live view of the last image and the barcode string. Successfully read codes get green background, no-reads and other errors like code quality, or validation errors get red background.
5	Image Controls	Check/uncheck images to be stored in result history and appear in the image viewer, customize image display - rotate 90° left/right, zoom in/out, offset center
6	Language setting and Logout	Supported languages: English (USA), German, Spanish, French, Japan, Korean, Portuguese (Brazilian), Chinese (ZH). Logout button

Statistics	
Read Rate	Rate of good reads compared to the number of total triggers.
Good Reads	Number of good reads.
No Reads	Number of no reads.
Triggers	Total number of triggers.

## Actions

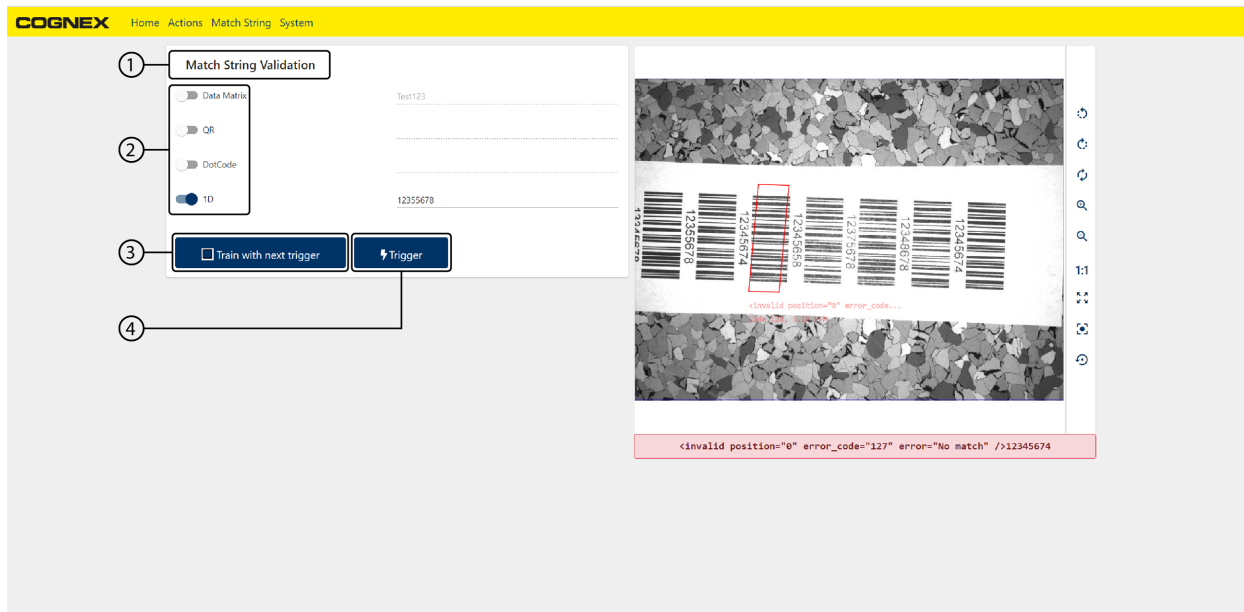


1	Trigger	Manually triggers the reader.
2	Live On/Off	Turns reader into Live mode.
3	Tune	Automatically tunes the camera and focus settings of the reader
	Optimize Brightness	This is a drop-down option under Tune. It can be used to adjust the brightness settings of the reader.
	Optimize Focus	This is a drop-down option under Tune. It can be used to adjust the focus settings of the reader.
4	Untrain/Train	Trains reader to different symbologies.

## Match String

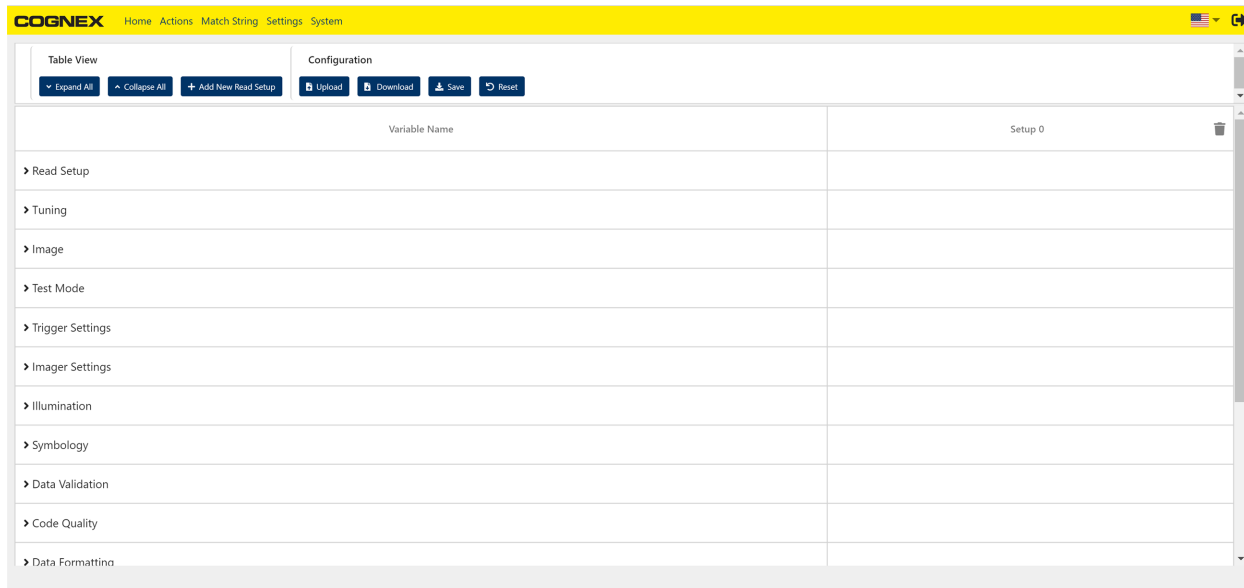
This function is used to manually enter or automatically learn a new match string.

**Note:** Automatic match string training only works with unformatted code strings.



1	Match String Validation	Ability to configure the reader to validate each decoded string against a trained match string.
2	Symbology Selection	Turn match string validation per symbology group on or off.
3	Train with next trigger	Select checkbox to automatically train reader for new match string.
4	Trigger	Click to manually trigger the reader.

## Settings



Action Buttons	
Expand All	Expands all settings options.
Collapse All	Collapses all settings options.

Action Buttons	
Add New Read Setup	Adds a new setup configuration which can be used to set custom read parameters. Up to 16 setups can be stored.
Upload	Upload configuration to reader from storage (e.g. hard drive) .
Download	Download configuration from reader to storage (e.g. hard drive).
Save	Save configuration to the nonvolatile memory of the reader.
Reset	Reset reader configuration to factory default.

**Note:** The setting options in this screen present the reader parameters in a tree-view style which is similar to the **Table View** of the reader parameters in Setup Tool. For a detailed description of the setting options, see *DataMan® Setup Tool Reference Manual*.



# System

The screenshot shows the COGNEX System interface with a yellow header bar containing 'COGNEX Home Actions Match String Settings System'. The main content area is divided into several sections:

- 1 Device Information:** A box containing fields for Device Model (DM474X), Serial Number (1A1804XN001407), Device Name (WebHML1), MAC Address (09:00:24:3D:86:FC), IP Address (10.86.92.11), Firmware Version (Development feature\_webhmi 20/04/27 17:32 cc6cab9), Installed Hardware (LiquidLens, Custom), Bootloader Version (2017.11-45-g87f355f), and OS Version (Development feature\_webhmi 20/04/27 19:12 98770b).
- 2 Feature Keys:** A box listing various feature keys such as 1DCodeQuality, 1DDataStitching, 1DExtendedRes, 2DCode, 2DCodeQuality, BarCode, DotCode, IDMax, FullSpeed, HDRPlus, IDQuick, ImageDownload, ImageFiltering, IntImageBuffer, LadderAndPicket, Omnidirectional, PostalCode, PowerGrid, Scripting, and Validation.
- 3 Device Time:** A box showing Local Time (May 3, 2020, 4:58:32 AM) and Uptime (264h 30m 50s).
- 4 Clear:** A button with a right-pointing arrow and the text 'Clear' next to it, located to the right of the Reader Statistics box.
- 5 Reader Statistics:** A box displaying various statistics: Total Triggers (168,192), Total Reads (32,162), Read Rate (19.12%), Total No-Reads (136,030), No-Read Rate (80.88%), Missed Triggers (2,171,753), Passed Validations (12), Failed Validations (0), Buffer Overflows (89,760), Trigger Overruns (2,081,993), and Item Count (0).

1	Device Information	Shows reader information such as model, serial number, firmware version and network address.
2	Feature Keys	Shows applied feature keys.
3	Device Time	Shows Local Time and Uptime.
4	Clear	Click to clear reader statistics.
5	Reader Statistics	Shows advanced reader statistics including system errors.