

# **DataMan<sup>®</sup> Web HMI**

## **Reference Manual**

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# Precautions


To reduce the risk of injury or equipment damage, observe the following precautions when you install the Cognex product:

- This product is intended for industrial use in automated manufacturing or similar applications.
- The safety of any system incorporating this product is the responsibility of the assembler of the system.
- Do not install Cognex products where they are exposed to environmental hazards such as excessive heat, dust, moisture, humidity, impact, vibration, corrosive substances, flammable substances, or static electricity.
- Route cables and wires away from high-current wiring or high-voltage power sources to reduce the risk of damage or malfunction from the following causes: over-voltage, line noise, electrostatic discharge (ESD), power surges, or other irregularities in the power supply.
- This product does not contain user-serviceable parts. Do not make electrical or mechanical modifications to product components. Unauthorized modifications can void your warranty.
- Changes or modifications not expressly approved by the party responsible for regulatory compliance could void the user's authority to operate the equipment.
- Include service loops with cable connections.
- Ensure that the cable bend radius begins at least six inches from the connector. Cable shielding can be degraded or cables can be damaged or wear out faster if a service loop or bend radius is tighter than 10X the cable diameter.
- This device should be used in accordance with the instructions in this manual.
- All specifications are for reference purposes only and can change without notice.

# Symbols


The following symbols indicate safety precautions and supplemental information:

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 **WARNING:** This symbol indicates a hazard that could cause death, serious personal injury or electrical shock.


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 **CAUTION:** This symbol indicates a hazard that could result in property damage.


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 **Note:** This symbol indicates additional information about a subject.

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 **Tip:** This symbol indicates suggestions and shortcuts that might not otherwise be apparent.

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# Overview

WebHMI is a web browser-based function which monitors the performance of the connected readers and provides statistical data for the user.

Supported web browsers	Google Chrome Mozilla Firefox Microsoft Edge
Maximum simultaneous connection	1

# Connecting

## Login

1. Open the web browser.
2. Enter the IP address of the reader into the URL field of the web browser.

## Logout

Close the web browser by clicking "X".

# Layout

## Home

The screenshot shows the COGNEX Home page interface. A yellow header bar contains the COGNEX logo and four tabs: Home, Actions, Match String, and System. The main content area is divided into several sections:

- 1** Points to the tab bar.
- 2** Points to the Statistics panel on the left, which displays:
  - Read Rate: 100.00%
  - Good Reads: 9,586,518
  - No Reads: 17
  - Triggers: 9,586,535
- 3** Points to the Last Trigger Result View, which shows a live image of a barcode with a green bounding box around it.
- 4** Points to the Result History table, which lists the last 50 trigger results with columns for Image, Result, Decode Time, Arrival Time, and Read String.
- 5** Points to the Image Controls panel on the right, which includes icons for rotating, zooming, and moving the image.

1	Menu	Home, Actions, Match String, and System page view tabs.
2	Statistics	Shows read information.
3	Last Trigger Result View	Shows live view of the last trigger result.
4	Result History	Lists the last 50 trigger results with corresponding details. Images can be selected and downloaded.
5	Image Controls	Rotate Left 90°, Rotate Right 90°, Reset Rotation, Zoom In, Zoom Out, Zoom to Original Size, Reset Zoom, Move Center, Reset All Settings.

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.

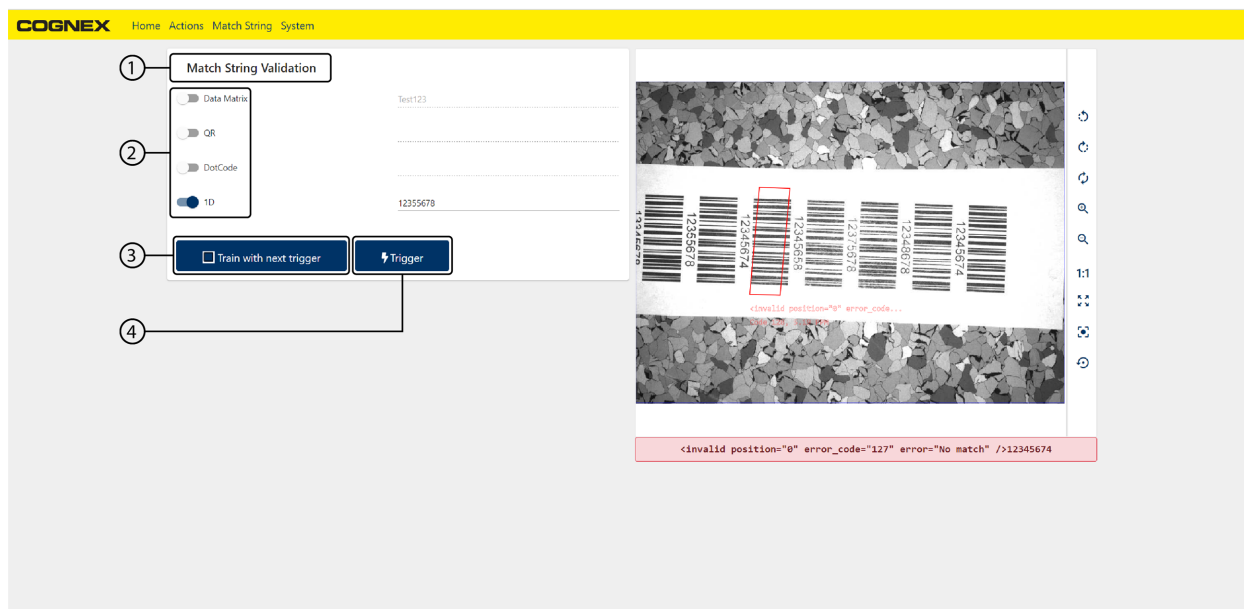


# Actions



1	Trigger	Manually triggers the reader.
2	Live	Turns reader into Live mode.
3	Tune	Tunes reader brightness and focus.
4	Untrain/Train	Trains reader to different symbologies.

# Match String



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.

## Systems

**COGNEX** Home Actions Match String System

The screenshot displays the Cognex Systems interface with the following components and callouts:

- 1 Device Information:** A panel containing fields for Device Model (DM474X-M), Serial Number (1A1802PP019862), Device Name (WebHMI\_3-Demo), MAC Address (00-D0-24-55-90-4E), IP Address (10.86.92.13), Firmware Version (6.1.6\_sr2), Installed Hardware (LiquidLens, Custom), Bootloader Version (2017.11-45-g87f355f), and OS Version (6.1.6\_sr2).
- 2 Feature Keys:** A panel listing various feature keys such as 1DCodeQuality, 1DDataStitching, 1DExtendedRes, 2DCode, 2DCodeQuality, BarCode, DotCode, IDMax, FullSpeed, HDRPlus, IDQuick, ImageDownload, ImageFiltering, ImageFoV, Full, IntImageBuffer, LadderAndPicket, MST, Omnidirectional, PostalCode, PowerGrid, PTP, Scripting, SignopticSig, and Validation.
- 3 Device Time:** A panel showing Local Time (Wed Dec 4 14:58:57 2019) and Uptime (551h 43m 04s).
- 4 Clear:** A button labeled 'Clear' with a trash icon, used to clear reader statistics.
- 5 Reader Statistics:** A panel displaying various statistics including Total Triggers (9,589,247), Missed Triggers (20,086), Total Reads (9,589,230), Passed Validations (2,433,435), Read Rate (100.00%), Failed Validations (3,751,776), Total No-Reads (17), Buffer Overflows (0), No-Read Rate (0.00%), Trigger Overruns (20,086), and Item Count (0).

1	Device Information	Shows device related information such as Device mode, Serial Number, Device Name, MAC Address, IP Address, Firmware Version, Installed Hardware, Bootloader Version, and OS Version.
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 reader information such as Total Triggers, Total Reads, Read Rate, Total No-Reads, No-Read Rate, Missed Triggers, Passed Validations, Failed Validations, Buffer Overflows, Trigger Overruns, and Item Count.

# Procedures

## Download Images

The download image format is the same as the image format set on the reader.



1. Click **Pause** on the **Home** screen.
2. Select one or more images.
3. Click **Download Image(s)**.

## Train Reader Manually

1. Go to **Actions** page.
2. Stop the live mode by clicking **Live**.
3. Go to **Match String** page.
4. Select **Train with next trigger**.
5. Click **Trigger**.

# Regulations/Conformity

**Note:** For the most current CE declaration and regulatory conformity information, see the Cognex support site: [cognex.com/support](http://cognex.com/support).

Safety and Regulatory	
Manufacturer	Cognex Corporation One Vision Drive Natick, MA 01760 USA
	<Model Name>: Regulatory Model xxxx This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take immediate measures. This equipment complies with the essential requirements of the EU Directive 2014/30/EU. Declarations are available from your local representative.
EU RoHS	Compliant to the most recent applicable directive.
FCC	FCC Part 15, Class A This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
Korea 	<Model Name>: Regulatory Model xxxx: R-REM-CGX-xxxx This device is certified for office use only and if used at home, there can be frequency interference problems.
NRTL	TÜV SÜD AM SCC/NRTL OSHA Scheme for UL/CAN 61010-1.
CB	TÜV SÜD AM, IEC/EN 61010-1. CB report available upon request.

## China RoHS



Part Name 部件名称	Hazardous Substances 有害物质					
	Lead (Pb) 铅	Mercury (Hg) 汞	Cadmium (Cd) 镉	Hexavalent Chromium (Cr (VI)) 六价铬	Polybrominated biphenyls (PBB) 多溴联苯	Polybrominated diphenyl ethers (PBDE) 多溴二苯醚
Regulatory Model <b>xxxx</b>	X	O	O	O	O	O
<p>This table is prepared in accordance with the provisions of SJ/T 11364. 这个标签是根据 SJ / T 11364 的规定准备的。</p> <p>O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB / T26572 - 2011. 表示本部件所有均质材料中含有的有害物质低于 GB / T26572 - 2011 的限量要求。</p> <p>X: Indicates that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB / T26572 - 2011. 表示用于本部件的至少一种均质材料中所含的危害物质超过 GB / T26572 - 2011 的限制要求。</p>						

## For European Community Users

Cognex complies with Directive 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.

In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.



The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration.

You may also contact your supplier for more information on the environmental performance of this product.

