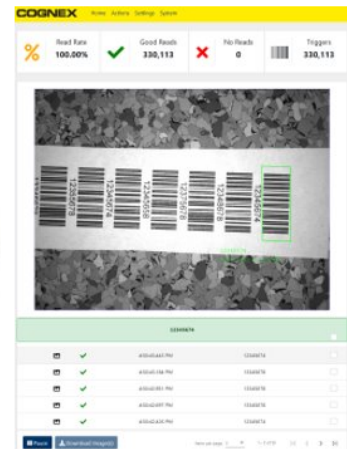


DataMan[®] Web HMI Reference Manual



2021 March 19
Revision: 6.2.3.1

Legal Notices

The software described in this document is furnished under license, and may be used or copied only in accordance with the terms of such license and with the inclusion of the copyright notice shown on this page. Neither the software, this document, nor any copies thereof may be provided to, or otherwise made available to, anyone other than the licensee. Title to, and ownership of, this software remains with Cognex Corporation or its licensor. Cognex Corporation assumes no responsibility for the use or reliability of its software on equipment that is not supplied by Cognex Corporation. Cognex Corporation makes no warranties, either express or implied, regarding the described software, its merchantability, non-infringement or its fitness for any particular purpose.

The information in this document is subject to change without notice and should not be construed as a commitment by Cognex Corporation. Cognex Corporation is not responsible for any errors that may be present in either this document or the associated software.

Companies, names, and data used in examples herein are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, nor transferred to any other media or language without the written permission of Cognex Corporation.

Copyright © 2020. Cognex Corporation. All Rights Reserved.

Portions of the hardware and software provided by Cognex may be covered by one or more U.S. and foreign patents, as well as pending U.S. and foreign patents listed on the Cognex web site at: cognex.com/patents.

The following are registered trademarks of Cognex Corporation:

Cognex, 2DMAX, Advantage, AlignPlus, Assemblyplus, Check it with Checker, Checker, Cognex Vision for Industry, Cognex VSOC, CVL, DataMan, DisplayInspect, DVT, EasyBuilder, Hotbars, IDMax, In-Sight, Laser Killer, MVS-8000, OmniView, PatFind, PatFlex, PatInspect, PatMax, PatQuick, SensorView, SmartView, SmartAdvisor, SmartLearn, UltraLight, Vision Solutions, VisionPro, VisionView

The following are trademarks of Cognex Corporation:

The Cognex logo, 1DMax, 3D-Locate, 3DMax, BGAll, CheckPoint, Cognex VSoC, CVC-1000, FFD, iLearn, In-Sight (design insignia with cross-hairs), In-Sight 2000, InspectEdge, Inspection Designer, MVS, NotchMax, OCRMax, PatMax RedLine, ProofRead, SmartSync, ProfilePlus, SmartDisplay, SmartSystem, SMD4, VisiFlex, Xpand

Portions copyright © Microsoft Corporation. All rights reserved.

Portions copyright © MadCap Software, Inc. All rights reserved.

Other product and company trademarks identified herein are the trademarks of their respective owners.

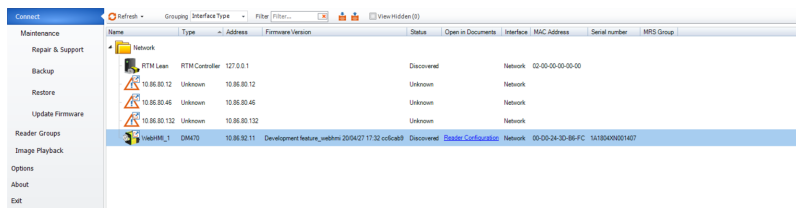
Overview

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.

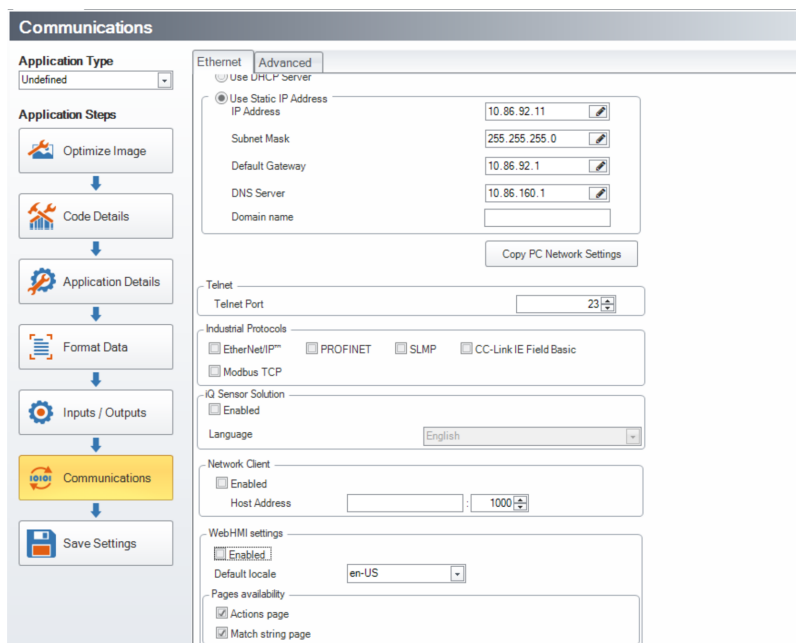
Supported web browsers	Google Chrome 61 or later Mozilla Firefox 75 or later Microsoft Edge 37 or later Apple Safari 13 or later
Recommended number of connections	1
Supported platforms	DataMan 370 and 470 Series
Connection interface	Ethernet

Connecting

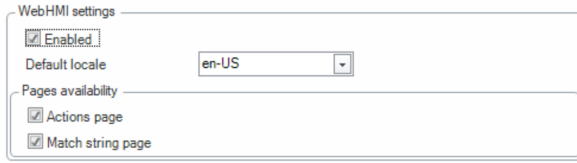
1. Open Setup Tool.
2. Select and connect to the reader to which WebHMI is to be enabled.



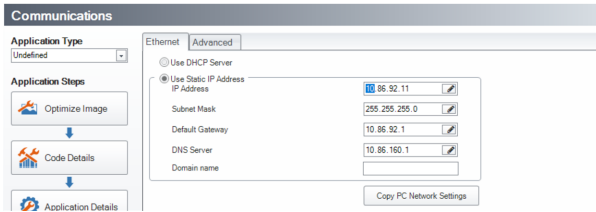
3. Click **Communications** under **Application Steps**.



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



5. Check the IP Address of the reader.

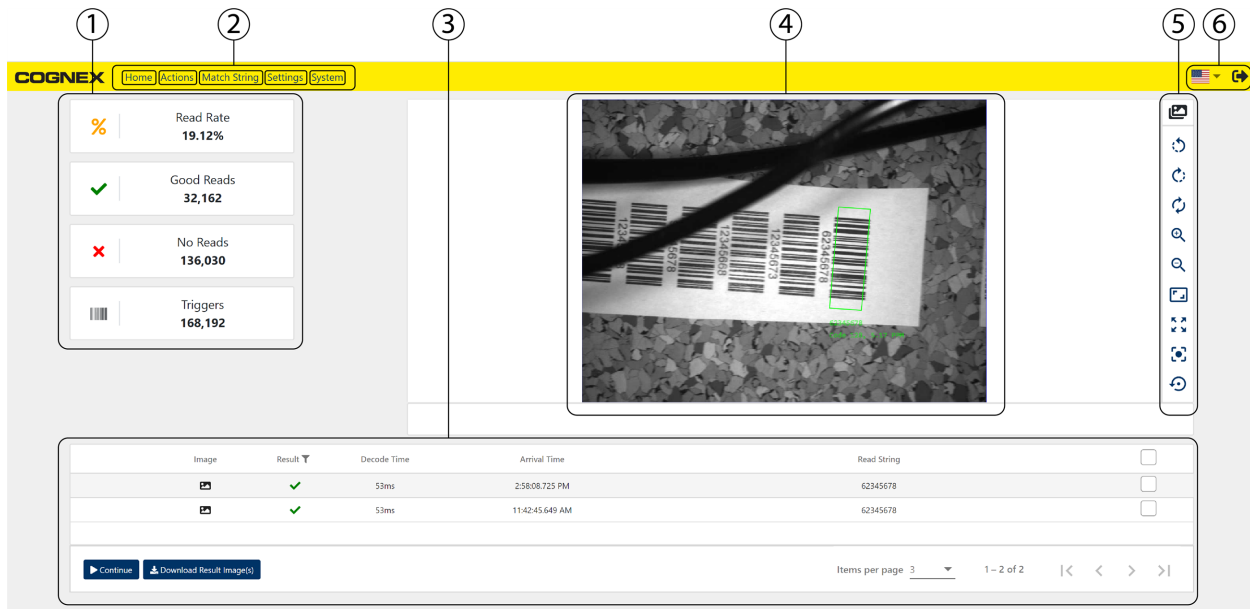


6. Open a supported web browser.

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 Lists the last 50 trigger results with corresponding details. Images can be selected and downloaded. Columns: - Image: image data available - Result: good read, no read, quality failure, validation failure - Decode time: amount of time needed for the decoding - Arrival time: the time when the image arrived - Read string: the code string being read Options: - Up to 50 customizable results stored in history - Filter option to control what images get stored in result history (e.g. store only no-read images). Click the filter icon next to Result to configure - Browsing result history: set items per page, navigate to next/previous/ first/ last result page - Pause/ Continue: pause/continue result infeed into results history - Download Result Image(s): download images (select single or all), only available when result infeed into results history is paused
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



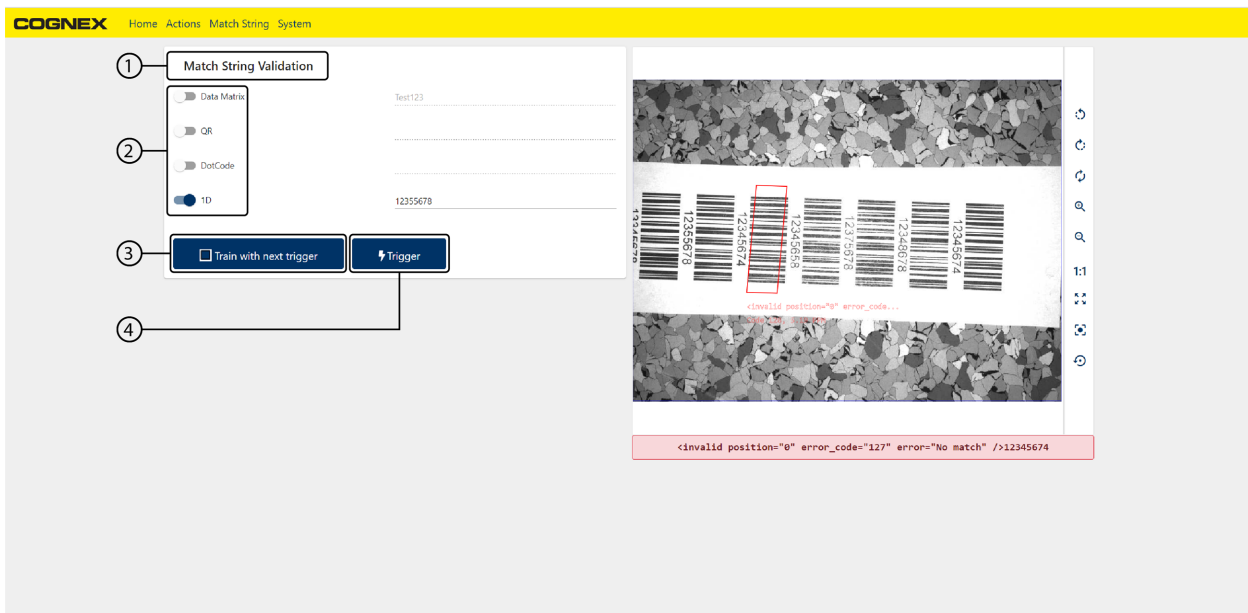
1	Trigger Manually triggers the reader.
2	Live On/Off Turns reader into Live mode.

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

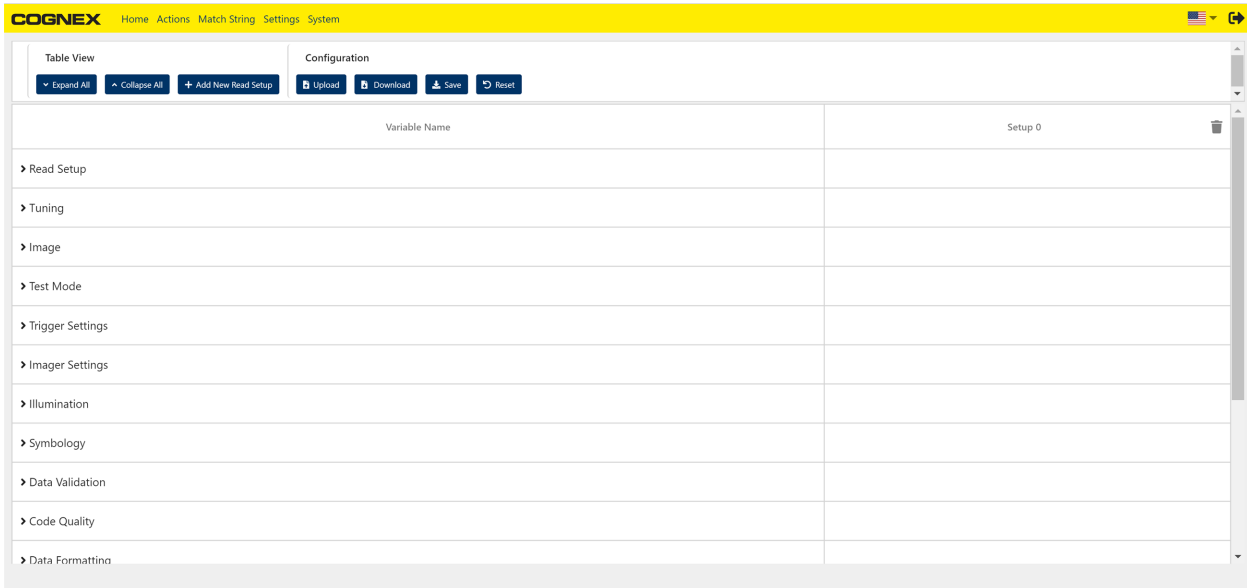
This function is used to manually enter or automatically learn a new match string.

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.
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

COGNEX Home Actions Match String Settings System 🇺🇸 🏠

1 **Device Information**

Device Model: DM474X	Firmware Version: Development feature_webhmi 20/04/27 17:32 cc6cab9
Serial Number: 1A1804XN001407	Installed Hardware: LiquidLens, Custom
Device Name: WebHML1	Bootloader Version: 2017.11-45-g87f355f
MAC Address: 09-D0-24-3D-86-FC	OS Version: Development feature_webhmi 20/04/27 19:12 98770b
IP Address: 10.86.92.11	

2 **Feature Keys**

1DCodeQuality, 1DDataStitching, 1DExtendedRes, 2DCode, 2DCodeQuality, BarCode, DotCode, IDMax, FullSpeed, HDRPlus, IDQuick, ImageDownload, ImageFiltering, IntImageBuffer, LadderAndPicket, Omnidirectional, PostalCode, PowerGrid, Scripting, Validation

3 **Device Time**

Local Time:
May 3, 2020, 4:58:32 AM

Uptime:
264h 30m 50s

5 **Reader Statistics**

Total Triggers: 168,192	Missed Triggers: 2,171,753
Total Reads: 32,162	Passed Validations: 12
Read Rate: 19.12%	Failed Validations: 0
Total No-Reads: 136,030	Buffer Overflows: 89,760
No-Read Rate: 80.88%	Trigger Overruns: 2,081,993
	Item Count: 0

4 [Clear](#)

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.