VERSION DESCRIPTION DOCUMENT (VDD)

FOR

Motor Controller UI

Version 1.0.6

4-May-21

Prepared by:

Redler Technologies

VERSION DESCRIPTIOMENT (VDD)

FOR

Motor Controller UI

Author:

J. Haim

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Redler Technologies Ltd.

J. Haim

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Approved: date Accepted: date

**RECORD OF CHANGES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Revision Number | UI version | Release  Date | Description | Total  Pages | Author |
| 1.0.0 | 1.3.30 | 28/01/2021 | Original issue | 13 | J.H. |
| 1.0.1 | 1.3.31 | 31/01/2021 | See chapter 3.2 | 13 | J.H. |
| 1.0.2 | 1.3.32 | 31/01/2021 | See chapter 3.2 | 13 | J.H. |
| 1.0.3 | 1.3.33 | 02/02/2021 | See chapter 3.2 | 12 | J.H. |
| 1.0.4 | 1.3.33b | 11/02/2021 | See chapter 3.2 | 12 | J.H. |
| 1.0.5 | 1.3.33c | 15/02/2021 | See chapter 3.2 | 12 | J.H. |
| 1.0.6 | 1.3.34a | 04/05/2021 | See chapter 3.2 | 12 | J.H. |
|  |  |  |  |  |  |

**TABLE OF CONTENTS**

Section Page

1. SCOPE 6

1.1 IDENTIFICATION 6

2. REFERENCED DOCUMENTS 7

3. VERSION DESCRIPTION 8

3.1 INVENTORY OF MATERIALS RELEASED 8

3.2 INVENTORY OF CSCI CONTENTS 8

3.3 CLASS I CHANGES INSTALLED 9

3.4 CLASS II CHANGES INSTALLED 9

3.5 ADAPTATION DATA 9

3.6 INTERFACE COMPATIBILITY 9

3.7 BIBLIOGRAPHY OF REFERENCE DOCUMENTS 9

3.8 SUMMARY OF CHANGE 9

3.9 INSTALLATION INSTRUCTIONS 10

3.10 POSSIBLE PROBLEMS AND KNOWN ERRORS 11

4. NOTES 11

List of figures/TABLES

Figure Page

No table of figures entries found.

# SCOPE

## IDENTIFICATION

n/a

# REFERENCED DOCUMENTS

# VERSION DESCRIPTION

A testing and system integration release version.

## INVENTORY OF MATERIALS RELEASED

File: MotorController 1.3.33c STXI.zip - An archive file with UI executable (x64bits). Ver. 1.3.33c

## INVENTORY OF CSCI CONTENTS

Version document files:

‎04-May-21 Version Description Document Ver. 1.0.5.docx

Output files:

21-Dec-14 05:03:22 PM 2808320 bytes Abt.Controls.SciChart.Wpf.dll

21-Dec-14 05:02:46 PM 1874021 bytes Abt.Controls.SciChart.Wpf.xml

09-Jun-20 03:16:04 PM 2582 bytes app.config

29-Jun-19 08:45:12 PM 36352 bytes CalcBinding.dll

03-Feb-19 10:08:58 AM 64512 bytes DynamicExpresso.Core.dll

16-Nov-19 03:00:22 AM 4994632 bytes EntityFramework.dll

16-Nov-19 03:00:40 AM 591968 bytes EntityFramework.SqlServer.dll

16-Nov-19 03:00:40 AM 163193 bytes EntityFramework.SqlServer.xml

16-Nov-19 03:00:18 AM 3738289 bytes EntityFramework.xml

05-Feb-20 10:16:20 AM 937472 bytes MathNet.Numerics.dll

05-Feb-20 10:16:20 AM 108168 bytes Microsoft.Expression.Interactions.dll

29-Apr-21 04:05:15 PM 6064128 bytes Motor Controller.exe

09-Jun-20 03:16:04 PM 2582 bytes Motor Controller.exe.config

29-Apr-21 04:05:15 PM 650752 bytes Motor Controller.pdb

05-Nov-16 04:55:50 AM 35016 bytes System.Data.Common.dll

27-Oct-19 06:40:12 AM 363520 bytes System.Data.SQLite.dll

13-Aug-18 09:49:28 PM 736 bytes System.Data.SQLite.dll.config

27-Oct-19 06:40:16 AM 186880 bytes System.Data.SQLite.EF6.dll

27-Oct-19 06:40:14 AM 186880 bytes System.Data.SQLite.Linq.dll

27-Oct-19 06:40:12 AM 1097946 bytes System.Data.SQLite.xml

05-Feb-20 10:16:20 AM 102912 bytes System.Windows.Controls.Input.Toolkit.dll

05-Feb-20 10:16:20 AM 55904 bytes System.Windows.Interactivity.dll

05-Feb-20 10:16:20 AM 3428864 bytes Telerik.Windows.Controls.dll

05-Feb-20 10:16:20 AM 574464 bytes Telerik.Windows.Controls.ImageEditor.dll

05-Feb-20 10:16:20 AM 1891328 bytes Telerik.Windows.Controls.Input.dll

05-Feb-20 10:16:20 AM 9728 bytes TextBoxBehaivior.dll

05-Feb-20 10:16:20 AM 44032 bytes ToggleSwitch.dll

05-Feb-20 10:16:20 AM 24576 bytes UserControlLibrary.dll

17-Feb-21 11:32:43 AM 293888 bytes WPFColorPickerLib.dll

17-Feb-21 11:32:43 AM 36352 bytes WPFColorPickerLib.pdb

28-Oct-20 03:18:06 PM 114176 bytes WPFSpark.dll

09-Jun-20 03:21:32 PM 163 bytes WPFSpark.dll.config

28-Oct-20 03:18:06 PM 222720 bytes WPFSpark.pdb

26-Apr-21 04:41:00 PM 122880 bytes Data\Commands.db

27-Oct-19 06:40:46 AM 1651712 bytes x64\SQLite.Interop.dll

27-Oct-19 06:35:38 AM 1321472 bytes x86\SQLite.Interop.dll

## CLASS I CHANGES INSTALLED

N/A

## CLASS II CHANGES INSTALLED

N/A

## ADAPTATION DATA

N/A

## INTERFACE COMPATIBILITY

Compatible for Windows (x64 bits) platform only.

## BIBLIOGRAPHY OF REFERENCE DOCUMENTS

N/A

## SUMMARY OF CHANGE

**MotorController 1.3.34a:**

- Read system "NumberGroupSeparator" and show it in "Delimiter" control

- CAN Open objects window added

- ToggleSwitch unchecked background color changed

- Parameters windows resize is now enable

- Connect time process improved

- Graph -> Plot up to 8 channels simultaneously

- Graph -> "Reset": Reset channels Scale/Offset made by mouse action when the "Freeze" option is activated

- Graph -> "Load": Read from configuration file the user parameters for each channel, send to driver the "Source" and "Priority"

- Graph -> "Save": Save to configuration file all channels’ parameters

- Each plot channel has it owns color and can be changed by clicking the colored box

- Each plot channel has it owns Priority, Scale, and Offset

- Each plot channel can be autoscaled (calculate Scale and Offset) by clicking "Fit to size" icon near the colored box

**MotorController 1.3.33c:**

- Excel delimiter option added via a ‘ComboBox’ in main panel (near “record” button)

**MotorController 1.3.33b:**

- Excel delimiter changed (Take in consideration STX version, using ';' instead of ',')

- BP interfaces improve (Signal generator group -> Margin added)

**MotorController 1.3.33:**

- New operation added (Parameters -> Motion -> Stop Motion - > Enable Gate Driver)

- Operation ID, Index wrong fixed (BP -> Reports -> Position Counters -> Main)

- Read only parameters limitation (db integration was missing)

- BP interfaces improve (blank space added)

**MotorController 1.3.32:**

- Calibration timeout occurred when running via wizard window

**MotorController 1.3.31:**

- Save parameters to file missing get of last parameters

- Load paramteres from file bug fix

**MotorController 1.3.30:**

- Plot internal error after FW update

- Bode plot background color changed depending of released version (STXI/REDLER)

**MotorController 1.3.29:**

- Save parameters to file - checksum verification operation changed

- Databases enable/disable specific command added

- Database tooltip->protocol information added

- CAN: Can button, window, class added - ready for operation implementation

- Rx Event function changed to "DataReceived"

- description of packets -> shorten routes

- Tx event replaced by static function

- Some code useless deleted

**MotorController 1.3.28:**

- Save data to .csv file - data values comma separator for float number, replaced by dot

- Frequency calculation bug fix

- Connect process improved

- Bode window error loading twice bug fix

- New calibration command added

- New Feedbacks Status added

- New Feedback sync command added

- Speed profiler -> profiler mode changed to enum

- Baudrates 1875000 & 1250000 added to "forceConnect" mode (debug tab)

- Frame Color integration verified

**MotorController 1.3.27:**

- improve select plot from channel combobox

- Rx/Tx message string indicator, bytes swapped

- ECHO from driver when "set" operation is sent from "Debug" tab

- Plot frequency bug fixed

- Plot scale bug fixed

- Frame color for error log added

- Hexadecimal values can be set via "Debug" tab

- Reading FW version removed from serial programmer procedure

- Progress bar increase process updated during serial programmer procedure

- Compatibility with Baudrate 19200

- Speed error commands added in "Motion" tab

## INSTALLATION INSTRUCTIONS

Unzip the file name mentioned in chapter 3.1 above.

Double click on “Motor Controller.exe” to run the application.

## POSSIBLE PROBLEMS AND KNOWN ERRORS

N/A

# NOTES

**ABBREVIATIONS AND ACRONYMS**

VDD - Version Description Document.