

LIGHTER SUITE 7.5.2 – RELEASE NOTES

This document describes the SW Release **LIGHTER 7.5.2** for **Laser Marking** devices.
NB: 'x' or 'X' in model codes is a wildcard symbol to represent an alphanumeric digit.

- [Models Supported](#)
- [Support for PROFINET IO](#)
- [Support for MARVIS™ functionalities](#)
- [Software Distributed](#)
- [Important Remarks](#)
- [New Features & Improvements](#)
- [Changes & Fixes](#)
- [Known Issues](#)
- [Tools & Documentation](#)
- [Release History](#)

MODELS SUPPORTED

LIGHTER 7.5.2 is compatible with the following LM devices:

- AREX xxx-x65, AREX xxx-x64
- AREX xxx-x55, AREX xxx-x54
- AREX xx00-1x42
- AREX A200-1x53
- UNIQ 1150-1x41, UNIQ 1150-1x40
- VLASE xxxx-1x43, VLASE xxxx-1x42
- EOX 6x02-1x41, EOX 6x02-1x40
- ULYXE 1066-1xxx (*)

(*) see [IMPORTANT REMARKS – NOTE ON WINDOWS 10 and ULYXE](#)

SUPPORT FOR PROFINET IO

The embedded PROFINET IO interface in LIGHTER 7.5.2 (N.B. SW license 93ACC1919 required) is qualified for the following LM devices:

- AREX xxx-x65, AREX xxx-x64
- AREX xxx-x55, AREX xxx-x54
- AREX xx00-1x42
- AREX A200-1x53
- UNIQ 1150-1x41, UNIQ 1150-1x40
- VLASE xxxx-1x43, VLASE xxxx-1x42
- EOX 6x02-1x41, EOX 6x02-1x40

SUPPORT FOR MARVIS™ FUNCTIONALITIES

The MARVIS™ DPM code grading functionalities in LIGHTER 7.5.2 (N.B. SW license 93ACC1918 required) are qualified for the following LM devices:

- AREX xxx-x65, AREX xxx-x64
- AREX xxx-x55, AREX xxx-x54
- AREX xx00-1x42
- AREX A200-1x53
- UNIQ 1150-1x41, UNIQ 1150-1x40
- VLASE xxxx-1x43, VLASE xxxx-1x42

and for the following MATRIX™ family devices:

- MATRIX 120 x1x-01x
- MATRIX 210N 2xx-x1x (DPM illuminator and YAG filter recommended)
- MATRIX 220 3xx-010 (*) (DPM illuminator and YAG filter recommended)
- MATRIX 300N 4xx-01x (DPM illuminator and YAG filter recommended)
- MATRIX 410N xxx-x1x (DPM illuminator and YAG filter recommended)
- MATRIX 320 7xx-x30 (DPM illuminator and YAG filter recommended)

(*) the models “**MATRIX 220 X**” are **NOT** supported. Do not connect to LIGHTER.

Installed FW package is **1.6.3.502** for MATRIX™ 220, **1.11.0.113** for MATRIX™ 320, and **1.5.1.606** for the remaining MATRIX™ families.

SOFTWARE DISTRIBUTED

This software distribution includes **Lighter752_RTM_032 installer *.EXE** (approx. 220 MB) and some utilities and docs.

MATRIX™ firmware packages: version **1.6.3.502** for MATRIX™ 220, version **1.11.0.113** for MATRIX™ 320, version **1.5.1.606** for other compatible MATRIX™ devices.

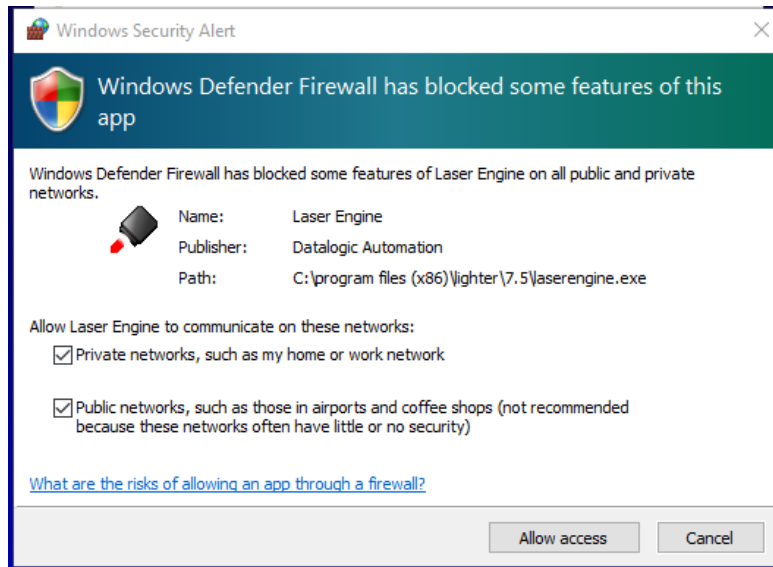
EDS file: **EDS_1.3_S5000_v1**

GSDML file: **GSDML-V2.33-Datalogic-Laser-Marker-20190402-000001**

IMPORTANT REMARKS

NOTE ON FIREWALL RULES FOR *LASERENGINE.EXE*

After a LIGHTER upgrade, it is recommended to verify the **Windows Firewall inbound and outbound rules** that are required by the application *LaserEngine.exe*.

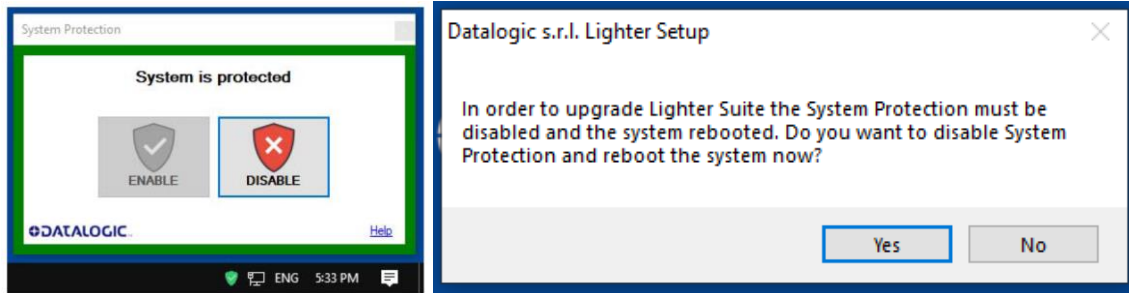


Consult EtherNet/IP and Profinet IO User Manuals for information on how to check and allow in/out traffic for the ***LaserEngine.exe*** application. The filepath is *C:\Program Files (x86)\Lighter\X.x\LaserEngine.exe* for Windows 10 systems, or *C:\Program Files\Lighter\X.x\LaserEngine.exe* for Windows Embedded Standard 7 systems.

X.x indicate the major and the minor release numbers of LIGHTER installed, ex. '7.5' or '7.4'.

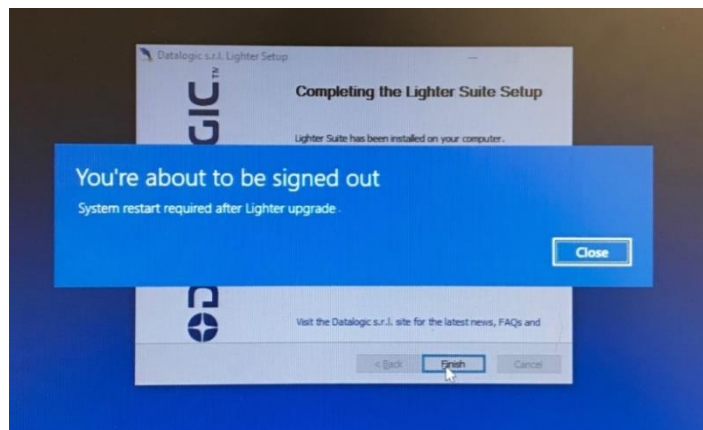
NOTE ON SYSTEM PROTECTION IN EMBEDDED WINDOWS 10 LASER MARKERS

The **C:** partition of all embedded-PC **Windows 10** laser markers is write-protected by the **System Protection** app; see the User Manual of the specific product for details. Before launching the 7.5.2 installer, it is necessary to disable *System Protection* and restart the system. A popup will warn the user if *System Protection* is not disabled and will allow the user to disable & reboot automatically. After restart, the installer must be re-launched.



At the end of the 7.5.2 installer:

- if no DSP updates are available, the system will restart automatically. After restart, *System Protection* will be automatically enabled.



- if DSP updates are available, see the paragraph **NOTE ON DSP UPDATES**.

NOTE ON IMARK2 DRIVER v. 1.0.4.

In LIGHTER 7.5.2 there are some known issues in the installation of **Imark2 driver v. 1.0.4** for product families **AREX 400**, **AREX 20 MW** and **UNIQ**.

In **WES7** systems AREX xxx-x64, AREX xxx-x54, AREX A200-1x53 and UNIQ 1150-1x40, the Imark2 driver v. 1.0.4 prompts a message-box (Known Issue #63370) but can be installed anyway.

In **Windows 10** systems AREX xxx-x65, AREX xxx-x55, UNIQ 1150-1x41, installation of LIGHTER 7.5.2 will not automatically install the Imark2 driver v. 1.0.4 due to Known Issue #111743. The driver, however, can be installed manually; contact DATALOGIC Technical Support if assistance is required. This driver is pre-installed in factory image starting ECO-33189 (September 2020).

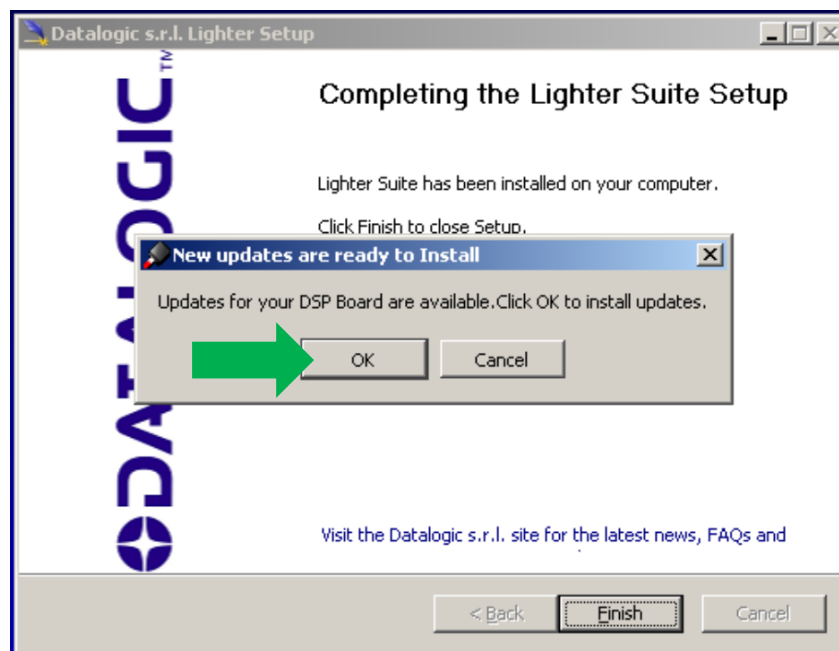
NOTE ON MARVIS™ ('MARK & READ') LICENSE

Due to some improvements in MARVIS™ license protection, **on some devices where LIGHTER 7.0.1 or 7.0.0 were manually installed as upgrades of existing versions, the existing MARVIS™ FULL/EVAL licenses may be disabled after installing LIGHTER 7.5.2.** Laser machines shipped with LIGHTER 7.0.2 or newer pre-installed in factory by DATALOGIC (see laser unit's datasheet) will not be affected. For more info, contact Technical Support with the device serial number and SW version at hand (*LaserEditor > Help > About*) before starting the upgrade. Installation of 7.5.2 on 7.0.0 / 7.0.1 devices where MARVIS™ is not used or already expired will not affect general LIGHTER functionalities.

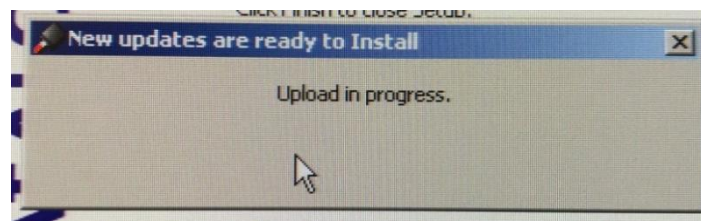
NOTE ON DSP UPDATES

Depending on the version previously installed, LIGHTER may require **DSP UPDATES**.

At the end of LIGHTER upgrade, when prompted by a message box **"Updates for your DSP Board are available"**, click **OK** to install the updates:



Wait for the process to finish:



After DSP upgrade, the installer will finish normally and the next action depends on the operative system:

- On **Windows 10** systems, it will be requested to shut down Windows and power off manually, then power on again to install the updates.

Click *OK* and *Finish*. Then in Windows select *Start > Shut Down*, wait for computer shutdown and power off at the main power switch. Then power on again. *System Protection* will be enabled automatically.



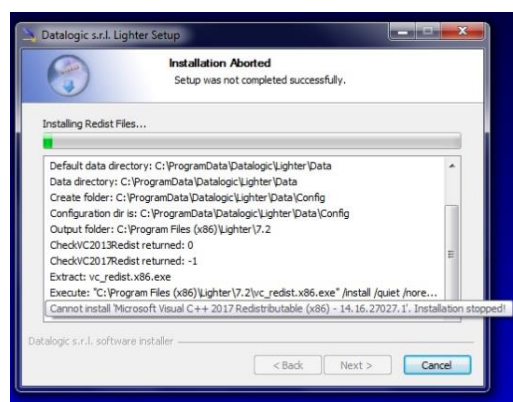
- On **Windows Embedded 7** systems, the system will shut down Windows automatically. Click *OK* and *Finish*. Wait for computer shutdown and power off at the main power switch. Then power on again.

NOTE ON MS VISUAL C++ REDISTRIBUTABLES

LIGHTER 7.5.2 installer will install the following SW:

- Microsoft Visual C++ 2010 x86 Redistributable Setup
File: vc100redist_x86.exe
Version: 10.0.40219.1
- Microsoft Visual C++ 2013 Redistributable Setup
File: vc120redist_x86.exe
Version: 12.0.30501.0
- Microsoft Visual C++ 2017 Redistributable (x86)
File : vc_redist.x86.exe
Version: 14.16.27027.1

If newer versions of redistributables are found installed ex. on a laptop, LIGHTER Suite installer will abort with “*Cannot install ‘Microsoft Visual C++ [...] Redistributable [...] Installation stopped!’*”.



You can apply the workaround of uninstalling the newer redistributables, launch and finish LIGHTER Suite installer, and finally reinstalling your redistributables.

NOTE ON WINDOWS XP

Windows XP or Windows XP PRO are not supported anymore.

NOTE ON ADMINISTRATOR ACCOUNTS

LIGHTER 7.5.2 must be run as **Administrator** on Windows 10 laptops, otherwise you may experience some problems in accessing/writing to the Data folder (ex. known issue #95906) and accessing to the Scripting Environment Help file.

NOTE ON WINDOWS 10 and ULYXE

Starting **Windows 10** version 1607, the **driver** SW of **ULYXE 1066-1xxx** laser-markers may not be recognized. It is thus not recommended to install LIGHTER 7.5.2 on such OS versions. The recommended last stable version for ULYXE systems is **6.2.2_13893**. Contact DATALOGIC Technical Support for inquiries or specific installers.

NEW FEATURES & IMPROVEMENTS

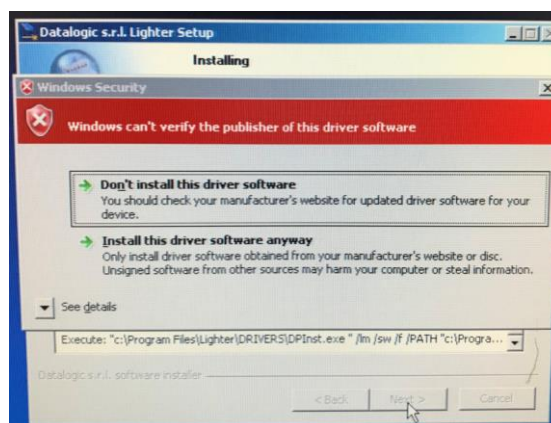
- N/A

CHANGES & FIXES

- (163289) Troubleshooting Events are not written to the database
- (165351) [Lighter Suite] [Global Counters] In an XLP containing Global Counters, the XY coordinate of strings is altered at each mark repetition

KNOWN ISSUES

- (46973) EDITOR: AIMING BEAM rest position with CLONES property doesn't work correctly
- (48420) ENGINE: in MoF mode, when set some values of DISTANCE parameter, the system doesn't work correctly or crashes
- (48652) EDITOR - Datamatrix with Contour + Pocketing + Angle is not filled correctly
- (48980) EDITOR: 'Send marking on selection' command disables the objects after mark all enabled objects, in addition to selected object.
- (49232) VLASE-20IR - Lighter 6.2.3 15944 - "Bad marking error" in MOF for scale X > 101.8
- (49236) Lighter 6.3.1 16272 - Material DB changes not transferred to XLPs in Engine
- (49417) Lighter 6.3.1 16272 - DXF rescaled after importing
- (61766) When 'Set I/O port' command is sent to turn on only OUTPUT 1 (or only OUTPUT 12), also OUTPUT 12 (or OUTPUT 1) is turned on at the same time
- (62750) ENGINE: When the wrong 'Move and rotate document' command is sent, no command can be sent
- (63370) During Lighter installer on WES7 systems, an iMarkII driver installation message appears > select 'Install anyway':



- (63634) If the photocell doesn't have the reflector in front (and no signal goes back to it from reflector), by pressing and releasing the Stop from the Command Box, the marking doesn't stop and starts again
- (65815) [ULYXE] ENGINE: no status refresh after pressing STOP button with external CBOX
- (67437) Disconnection is caused from Supervisor to Laser Marker when Supervisor requests to open a XLP file not present in LaserEngine
- (70599) Ulyxe USB driver digital signature not recognized on some Win10 PCs
- (71759) import filter AI (Adobe Illustrator) & PDF does not respect scale
- (76351) [LaserEditor][LaserEngine] With %V[], multiple global counters values in XLP are permuted randomly. Use %v[] (lowercase) instead.
- (77433) [Lighter][Std-RS232] NULL config.txt file blocks the execution of the Std-RS232 script (*Result of expression 'value' [undefined] is not an object*)
- (79730) [Axis] [Laser Engine] [AREX-20MW] Script Axis.move() function call generates a delayed Axis movement
- (79741) [LaserEditor][PRJ import] Wobble parameter is applied incorrectly when importing Smartist 4.1 files
- (80013) [MARVIS][QualityGradeTraning] In QGT, if the symbol contains references to local/global variables or time strings, code match will fail because the variables are not updated.
- (81322) [Rotor axis] Some vectorial graphics with holes are marked with extra lines on a rotor device when Sector Size >0.
- (86375) [UNIQ] [End signal] The End signal changes state, after starting a marking, but before the Busy signal
- (87390) [VLaseII] [Lighter Suite] [Driver PCI] After DSP upgrade to 712, the installation of the new driver ends after the Laser Engine is started.
- (87885) [AREX3] [Lighter Suite] [Driver PCI] After DSP upgrade to 712, the initialization of the control board isn't successful the first time
- (88046) [Lighter Suite] [iMark platform] [Start marking signal] By releasing the external Stop command from the Cbox, a start event will be notified in the System test window
- (88238) [ActiveX] When connected via ActiveX to Laser Engine with an external application, it is impossible to reconnect after a physical disconnection of the cable unless you exit and re-enter 'Remote Mode'
- (88426) If INCREASING MOTOR STEPS is set in Axis configuration, the DIRECTION of generic movement must be reversed compared to DECREASING MOTOR STEPS
- (88789) [Ulyxe DSP] [Laser Engine window] [Statistics tab] By turning the KEY of the Cbox from 1 to 0, the Marking OK event is notified
- (90299) [MARVIS] [MATRIX 220] [Ext illuminator] If "Internal Lighting = Disabled", external illuminator is not activated [ref. #85956]
- (91762): [TcpServer] If an object is BLOCKED, the command 'Move and Rotate Document' does not move the document starting from its origin
- (92779) [Product with iMarkI] After changing the correction parameters in Laser Configuration, the limits don't work the first time they are started

- (92781) [Product with iMarkI] After changing the parameters in Laser Configuration, the Laser Test doesn't work the first time it is started
- (94407) [Laser Editor] [Import Script button] By opening the script, the .png files, in the .zip folder, aren't imported (manual import will work)
- (94853)(95214)(98579)(99676) WinSAT Windows scheduled task can produce errors/disconnections in TCP-IP / PNIO / EIP and should be disabled manually.
- (95520) [Editor] IMPORTED type objects cannot be cloned
- (95906) Impossible to create new Global String (or generally write in the Data folder) in Windows 10 where the application LaserEngine is not launched "as administrator"
- (95935) [Supervisor] In REMOTE MODE, match/grade messages in Status Bar of Remote Engine are not shown
- (95944) [EthernetIP] [Profinet] Reset Z Axis fails in LaserEngine GUI visualization if system is already in home
- (96306) [Ulyxe DSP] [Lighter Suite] [Limits on selection] By selecting a second object, with the limits of a first object projected, the limits of the second object aren't projected
- (96319) [ULYXE] Sequences do not work in ULYXE
- (96595) [Profinet] [Ethernet] MARVIS "Validation" window not updated in Remote Mode
- (97205) [ProfiNet] [Ready to mark bit] With the laser marker in WAIT FOR START state, the Ready to mark bit (in the Input area) changes from 0 to 1 instead of remaining at 0
- (98318) [Laser Engine] [Ring document] [Limits] With the MARVIS enabled (but not used), the movement of the R axis to project the limits of a document isn't realized
- (98323) [Profinet] "Set autofocus" command fails via fieldbus; it works via Engine GUI.
- (99664) [Profinet] When in *Auto mode*, commands which change the loaded layout provoke a misalignment between the Laser Engine Preview and what will be marked
- (101401) [AREX 20 MW] [Laser.inz] C_off and C_jump delays unexpectedly altered to 3000 us
- (101760) [Engine][Profinet][Marvis] After generating a *Reader Error* with Engine in Auto Mode, the following marking does not make an acquisition and reports 'Unknown Code Type', while the 'Reader Error' state persists
- (106556) [LaserEditor] [Global variables] Mutiple global counters in Editor are incremented by 1, whereas in Engine by the # of counters
- (107695) [Profinet] [EIP] [TCP] After 'Load document' command, document list in Engine is not updated. Marking preview is updated and file marked correctly.
- (107738) [Win 10 IoT Image] [Profinet] PNIO endurance test interrupts with PROFINET Log Level=0
- (108182) [LaserEditor] Reversed datamatrix codes with Filling='Dot' are misplaced
- (108805) [Engine] [Profinet] When renaming the LAN boards on Arex400 PRO it is no longer possible to connect to the PLC via Profinet
- (109863) [Laser Dashboard] [Script] Two 'onTextChanged' events instead of one are fired by a LineEdit widget when signal re-connected within a callback

- (109997) [Laser Editor] [Sequence document] [MARVIS] After an axis move, the execution of a sequence containing MARVIS validation is interrupted
- (111743) [DRV ImarkII] [AREX400] [UNIQ] On Win10 systems, Imark2 driver version 1.0.3 is installed instead of version 1.0.4.
- (112202) [ActiveX][Engine] Global counter is incremented by twice the 'Step' parameter.
- (117598) [UNIQ] With document or ring in 'Auto mode' and LaserEngine GUI start, END is raised before BUSY.
- (118947) [Win10 IoT] [Laser Engine icon] Occasionally, right-clicking on LaserEngine tray icon the configuration menu is not shown. Open LaserEngine and right-click on Status Bar icon as workaround.
- (123930) [Laser Engine] [MARVIS] [M320] [360° Feedback] : By setting a document in Auto mode, the Matrix 360° Blue Feedback turns on
- (132812) [High-contrast code] 'Pocketing' property is not extended to the 'Code inversion' object
- (134542) [Laser Editor][High Contrast] *Geometry > Origin* property is applied to the main symbol object, instead of Base / Code Inversion object.
- (141883) [Laser Engine] [X-Y axis] [Z axis] [R axis] [Arrow Key] Arrow Key Function crash the application
- (142468) [VLASEII][Engine][Axis] With few keystrokes, the axis is brought at the end of travel
- (144999) [Laser Engine] [Document] [Extended Layer] [X Axis] [Y Axis] Global X and Y coordinates aren't applied properly into Extended Layer
- (149459) [ULYXE DSP] [EXT_START] Right after LaserEngine startup and in Auto Mode, EXT_START will not work
- (150585) [Arex400] [Laser Engine] [Sequence] [Rotor axis] [Ring Document] the sequence is interrupted without any warning or error message
- (150817) [LaserEditor][Imported] Some *.DWG files cannot be imported
- (151212) [LaserEngine][Z axis][Home Search] If DISABLE_Z is HIGH then Home Search is launched, no warning is shown
- (151215) [DISABLE_Z][XLP] If DISABLE_Z is raised while marking an XLP in Auto Mode, the mark is interrupted but the STOP button stays enabled
- (151216) [LaserEngine][DISABLE_Z] If DISABLE_Z is high and an XLP is launched in Auto Mode, the mark is executed once but the GUI and status are not updated
- (151933) [MOF][AREX400] In Marking-On-Fly mode, 'Continuous marking' does not work
- (153619) [VLASEII] After an Interlock Error and after the Warm-Up procedure, LE goes into 'Laser Ready' state when the laser source is still in 'Warm Up' state
- (154058) [AREX400][Homing] For an axis HomeFlag=true, but if DISABLE is raised an 'Invalid Home Search' is shown
- (154480) [Win10] [Fonts] Font files must be installed, not simply copied to C:\Windows\Fonts, for LIGHTER to see them as importable
- (156456) [Supervisor] [ActiveX] ActiveX demo for Remote Control freezes after a few marking cycles

- (157202) [TcpServer script] Nonexisting command is not replied with Error 0001 - 'Command not recognized'
- (160210) [Lighter Suite][Lighter Engine][Warning home search][X Y Z R Axis] Warning home search doesn't not appear for any axis on Arex 400 with Windows 7 Embedded lasermakers
- (161817) Troubleshooting and LaserEngine log times are offset by 1 hour
- (164163) [Installer] [DataDirectory] When LIGHTER 7.5.x is installed over existing LIGHTER 7.4.4, the DataDirectory filepath is modified on non-embedded PCs
- (165334) [Lighter Suite] [Extended Layer] [Limits] [Marking] Limits and Marking operations move to different layer
- (167038) [TCP/IP] Command "Stop System" 0xF5 0xFF does not work
- (167577) [AREX400] [Axes] Limits area doesn't work with DISABLE inputs connected to +24V

TOOLS & DOCUMENTATION

The relevant support files and documentation are installed along with the LIGHTER SUITE applications (*Barcode Reference*, *EtherNet IP User Guide*, *Laser Dashboard Script Manual*, *Project Editor User Guide*, *StdRS232 Protocol manual*, *LIGHTER TCP Server Manual*, *LIGHTER Suite User Guide*, *Profinet IO User Guide*, *LIGHTER EULA*) in "C:\Program Files ... \Lighter\7.5\Docs".

RELEASE HISTORY

- **LIGHTER 7.5.2**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x4x, VLASE xxxx-1x4x, EOX 6x02-1x4x, ULYXE 1066-1xxx, AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 7.5.0**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x4x, VLASE xxxx-1x4x, EOX 6x02-1x4x, ULYXE 1066-1xxx, AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 7.4.4**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x4x, VLASE xxxx-1x4x, EOX 6x02-1x4x, ULYXE 1066-1xxx, AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 7.4.3**

Suite for AREX 401 laser markers (AREX 10C-x65).

- **LIGHTER 7.4.0**

First suite with MARVIS™ support for MATRIX 320. Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x4x, VLASE xxxx-1x4x, EOX 6x02-1x4x, ULYXE 1066-1xxx, AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 7.3.2**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x4x, VLASE xxxx-1x4x, EOX 6x02-1x4x, ULYXE 1066-1xxx, AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 7.3.1**

Suite for AREX x00-1x42, AREX A200-1x53, UNIQ 1150-1x4x, VLASE xxxx-1x4x, EOX 6x02-1x4x, ULYXE 1066-1xxx, AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 7.3.0**

First release compatible (only) with embedded Windows 10 IOT laser markers. Suite for UNIQ 1150-1x41, VLASE xxxx-1x43, EOX 6x02-1x41, AREX xxx-xx5.

- **LIGHTER 7.2.1**

Release for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE xxxx-1x42, EOX 6x02-1x40, ULYXE 1066-1xxx, AREX xxx-xx4.

- **LIGHTER 7.2.0**

First suite with embedded PROFINET IO. Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE xxxx-1x42, EOX 6x02-1x40, ULYXE 1066-1xxx, AREX xxx-xx4.

- **LIGHTER 7.1.3**

First suite with MARVIS™ support for MATRIX 220. Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE xxxx-1x42, EOX 6x02-1x40, ULYXE 1066-1xxx, AREX xxx-xx4.

- **LIGHTER 7.1.2**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE xxxx-1x42, EOX 6x02-1x40, ULYXE 1066-1xxx, AREX xxx-xx4.

- **LIGHTER 7.1.1**

Suite for AREX400 models only (AREX xxx-x64, AREX xxx-54).

- **LIGHTER 7.1.0**

Suite for AREX400 models only (AREX xxx-x64, AREX xxx-54).

- **LIGHTER 7.0.2**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE xxxx-1x42, EOX 6x02-1x40, ULYXE 1066-1xxx.

- **LIGHTER 7.0.1**

Suite for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE xxxx-1x42, EOX 6x02-1x40, ULYXE 1066-1xxx.

- **LIGHTER 7.0.0**

First suite with MARVIS™ DPM code grading functionalities, for AREX xx00-1x42, AREX A200-1x53, UNIQ 1150-1x40, VLASE 1x09-1x42.