# LIGHTER SUITE 8.1.3 – RELEASE NOTES

This document describes the SW Release **LIGHTER 8.1.3** 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*
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## MODELS SUPPORTED

LIGHTER 8.1.3 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 8.1.3 (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



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# SUPPORT FOR MARVIS™ FUNCTIONALITIES

The MARVIS™ DPM code grading functionalities in LIGHTER 8.1.3 (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 220 3xx-010 X (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)
- MATRIX 320 800-030 (DPM illuminator and YAG filter recommended)

(*) the models "**MATRIX 320 X**" are **NOT** supported. Do not connect to LIGHTER.

Installed FW package is **1.6.3.502** for MATRIX™ 220, version **1.11.13.203** for MATRIX™ 220 X**,** version **1.11.0.113** for MATRIX™ 320, and **1.5.1.606** for the remaining MATRIX™ families.

MARVIS™ configuration must be done in "Interactive" installation.

**N.B.**: Starting LIGHTER 9.0.0: 210N, 300N, 410N will no longer be supported.

**N.B.**: In LIGHTER 8.1.3, 8.1.2, 8.1.1 and 8.1.0, defect (**202308**) for **MATRIX 220 X** is known (occasional unstable connection and lost focus). It is recommended not to connect this scanner model. See Known Issues.

# SOFTWARE DISTRIBUTED

This software distribution includes **Lighter813_RTM_20241025_028.exe** *.EXE (approx. 220 MB) and some utilities and docs.

EDS file: **EDS_1.3_S5000_v1**

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



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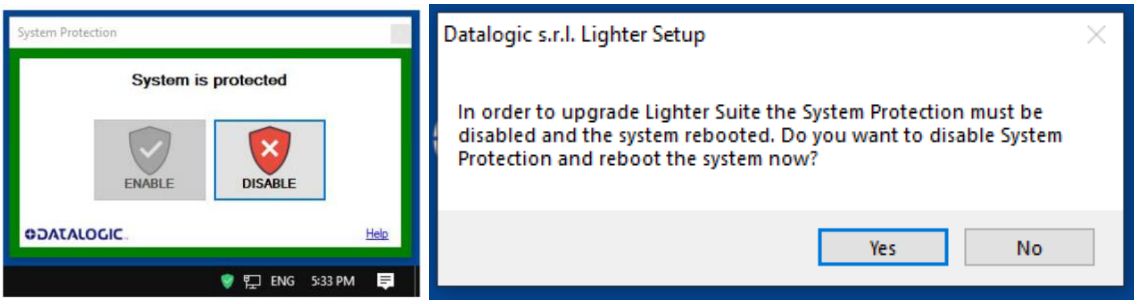
# IMPORTANT REMARKS

## NOTE ON DOWNGRADE TO VERSION 7.X

To downgrade from 8.1.3 to previous versions (7.5.x or older), one has first to uninstall 8.1.3 then install version 8.0.0, then downgrade further.

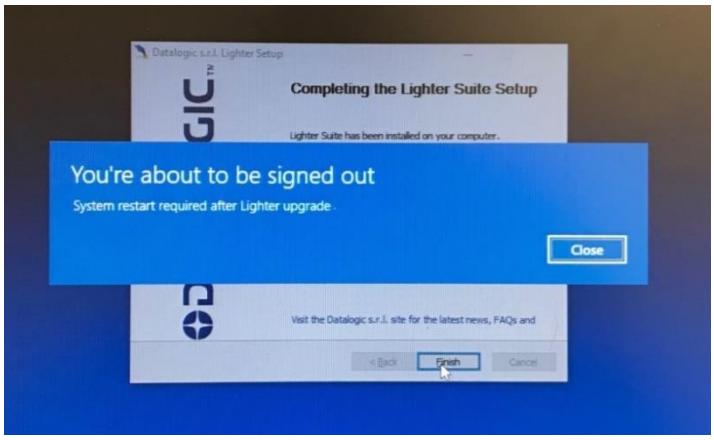
## NOTE ON *SYSTEM PROTECTION* IN EMBEDDED WINDOWS 10 LASER MARKERS

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 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 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**.



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## NOTE ON *IMARK2* DRIVER v. 1.0.4.

In LIGHTER 8.1.3 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 8.1.3 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).

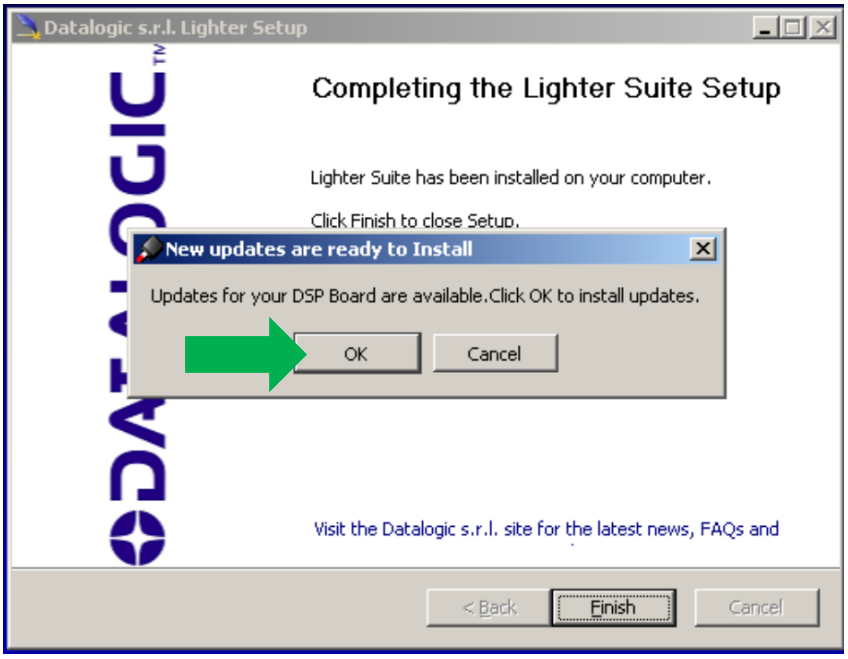
## NOTE ON MARVIS™ ('MARK & READ') LICENSE

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 8.1.3. 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 8.1.3 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**.

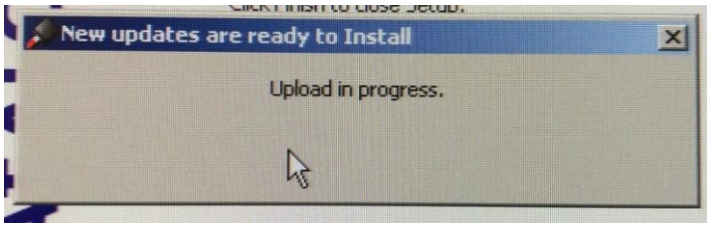
At the end of LIGHTER upgrade, when prompted by a message box "**Updates for your DSP Board are available**", click *OK* to install the updates:






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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 8.1.3 installer will install the following SW:

- Microsoft Visual C++ 2010 x86 Redistributable Setup
  File: vc100redist_x86.exe
  Version: 10.0.40219.1

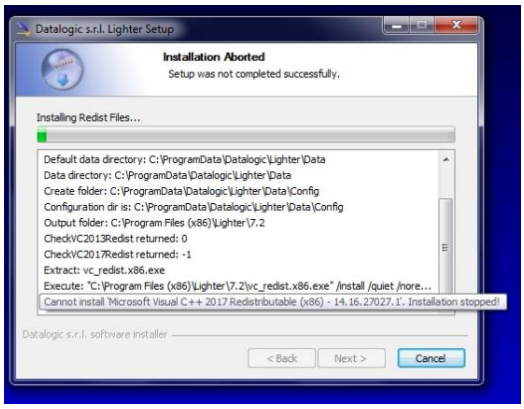
- Microsoft Visual C++ 2013 Redistributable Setup
  File: vcredist_x86.exe
  Version: 12.0.30501.0

- 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!"*.



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

## NOTE ON WINPCAP

LIGHTER 8.1.3 will install WinPcap v. 4.1.3. If newer versions of WinPcap are found installed ex. on a laptop, LIGHTER Suite installer will abort.

## NOTE ON WINDOWS XP

Windows XP or Windows XP PRO are not supported anymore.

## NOTE ON ADMINISTRATOR ACCOUNTS

LIGHTER 8.1.3 must be run as **Administrator** on Windows 10 laptops, otherwise you may experience some problems in accessing/writing to the *Data* folder (see 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 8.1.3 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.



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## NEW FEATURES & IMPROVEMENTS

- (186194) [MOF] Add the possibility of setting the photocell trigger in Test.
- (186672) [MOF] Add the possibility of setting the photocell trigger also in Continuous Marking.
- (186914) Print and save “MARVIS Code Validation Report”.
- (196037) Add in log file the temperature value when "Scanhead temperature" message is triggered.

## CHANGES & FIXES

- (89302) [Statistics tab] : Following a Laser Stop event, in the Laser Engine Statistics tab, the Laser Stop event warning doesn't appear in the STOPPED Marking section
- (167268) [Lighter Suite] [Lighter Editor] [Pocketing] ARIAL text that uses pocketing loses/alters some letters
- (177833) [LaserEditor][Pocketing] Small Datamatrix with Contour+Pocketing has some missing cells.
- (178395) [LaserEditor][Pocketing] Datamatrix with Contour+Pocketing applied has some missing cells.
- (179513) [Script] Local counter or Global counters do not increment automatically.
- (182418) Fix problem of update of Global Variables with formatters.
- (183691) [Profinet] Engine crash when writing to byte 55 of Output Memory Map.
- (186211) [MOF X-Y] [Continuous marking] From the second marking onwards, the External Start warning message always appears.
- (187560) [Remote mode] Upon exiting Remote mode, a MOF-related warning message appears.
- (190054) [SW Ready signal] [Ready To Mark mode] : After the first marking, SW READY status always remains HIGH
- (192597) [Supervisor installation] [Laser Editor] [Properties] [Materials database] [Custom laser parameters] Custom laser parameters cannot be disabled.
- (193605) [Laser Engine] [Global variables] By clicking Apply button, spurious “tmp” columns appear.
- (193657) [Laser Editor] [MARVIS] [Code validation report] Device Model of the scanner isn't complete.
- (193662) [Laser Editor] [MARVIS] [Code validation report] It is also possible to print the report with the Live view enabled.
- (193670) [Laser Editor] [MARVIS] [Code validation report] If there are two codes, all printed reports refer to the last code on which the training was carried out.
- (193672) [Laser Editor] [MARVIS] [Code validation report] If there are two codes, both codes are highlighted in the reports.
- (193772) [Laser Editor] [DM] [Contour] With negative Pocketing parameter, the Contour isn't applied correctly.



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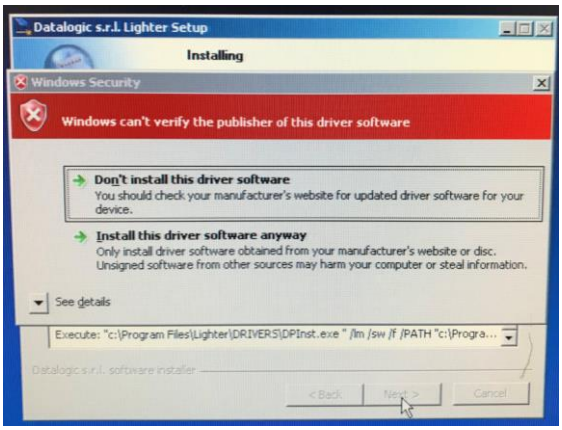
- (193857) [Laser Editor] [DM] [Contour] [Pocketing] [Materials database] Both Pocketing and Contour are saved in the Materials database.
- (193938) Problem with LineEdit constructor connecting to sigTextChanged
- (194346) [MOF] [Delays] [Units] : It is possible to modify but not apply the chosen unit of measurement
- (194352) [MOF X-Y] [Wizard] [Speed conversion window] The encoder pulse box also appears in Simulation
- (194734) [Laser Editor] [Ring document] [Sector Gap parameter] It is possible to set this parameter differently from what is written in the manual
- (194868) [Laser Engine] [Start queue delay parameter] With MoF enabled, the Start queue delay parameter also appears in the I/O section
- (195128) [Laser Editor] [Materials] Change of Material property on document or object shows incorrect behaviour on editing operations.
- (195581) [Laser Editor] [Pocketing] [Size property] Change of pocketing value do not trigger real-time display update of object's size on properties browser.
- (195585) [Laser Editor] [Pocketing] [Undo] Reset of pocketing property does not restore object's handler positions on editing window and size on properies browser.
- (196932) [Laser Editor] [Merge] [Pocketing] Vectorial tansformation on object does not applies on pocketing polygons.
- (197095) [Laser Engine] [Scanhead Temperature Error] [Troubleshooting] : Temperature value read during the Scanhead Temperature Error doesn't appear in Troubleshooting

## 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
- (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’:



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- (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 permutated 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.
- (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



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- (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
- (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
- (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



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- (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
- (150817) [LaserEditor][Imported] Some *.DWG files cannot be imported
- (151212) [LaserEngine][Z axiz][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
- (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



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- (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 lasermarkers
- (165089) [Lighter Suite] [Sequence] If sequences are executed a Buffer Error appears and the maker goes to Laser Error state
- (165601) [AREX400] Free Brake Output doesn't work properly
- (167502) [Laser Engine] [MoF] [Warning message] : The warning message 'External Start Request Occured' appears without having received another trigger during marking
- (167950) [Lighter Suite] [Lighter Editor] [Tiling] [Automatic] Inaccurate separation between sectors in LaserEditor preview
- (169248) [lighter suite] [lighter editor] [Extended Layer] [Image] Previous and next Limit's button keep showing the same limits
- (169250) [lighter suite] [lighter editor] [lighter engine] [Extended layer] [layer] [limits] axis move into empty space
- (169397) [Laser Engine][Z Axis][Home Search] [Autofocus] the Home Search Button (and Autofocus) is enabled before the end of the operation
- (169656) [Uniq] Z brake output turned on at start up for a short time
- (169657) [Arex400] Step and Dir outputs go high at start up for a short time
- (169706) [LaserEditor][ProjectEditor] In script, global variables initialized as empty string crash LaserEditor
- (169853) [Lighter Suite][User Manual][Sector Gap] Description of Sector Gap property of Ring document is wrong
- (169956) [lighter suite][lighter editor] [supervisor mode] supervisori mode crash during an extended layer marking
- (169958) [Lighter Suite] [lighter engine] [supervisor mode] [XYZR axis] unresponsive gui for axis position
- (170220) [Lighter Suite][Supervisor][Profinet] incompatibility of using Supervisor mode when a profinet license is active
- (170222) [Lighter Suite][Supervisor][Marvis] incompatibility of using Supervisor mode when a Mark and Read device is connected
- (170316) [Lighter Suite] [Installer] Impossible to install Lighter 8.0.0 on Lighter version older than 7.5.2
- (171963) [lighter Suite] [Lighter Editor] [Extended Layer] [Work Area] the work area different from the expected one and missing gray zone
- (175161) M220X cannot read DMRE codes
- (176359) [Win7][Installer] impossible to uninstall lighter 8.1.0 on Windows Embedded 7. Use save-data.bat.
- (176362) [Lighter Suite][Laser Engine][Automode] anytime Automode is use a Warning MOF appears (Bad marking, marking area limits exceed
- (176368) MARVIS config does not work in Supervisor..



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- (176375) [Circle] [Limits] [Extended Layer] the limits show a rectangular box if the text is on a circle
- (177008) [Editor][Fonts] Font names containing Latin-1 characters are not loaded.
- (178686) [MOF]wizard fine tuning circle and bars dimensions
- (178688) [MOF] xy continuos marking in millisecond does not work properly.
- (179091) [Lighter Suite] [Lighter Editor] [Extended Layer Document] [Work Mode] : With MOF (X-Y or R) enabled, document marking isn't carried out
- (179099) [Lighter Editor] [Ring Document] [Work Mode] With MOF X-Y enabled, an incorrect marking is carried out.
- (179401) [Profinet] Disable input stops homing but does not abort homing command.
- (181193) [Lighter Suite] [Laser Editor] [Object operations] : By applying the Union and Exclusion operations to two text strings with Roman-s font, the result obtained is incorrect.
- (181756) [Laser Editor] [Array] The preview of each individual plan is different from the preview of the individual plan opened separately.
- (181758) [Laser Editor] [Array] After marking, the content of the document isn't consistent with the marking.
- (182223) [Laser Engine] [Auto mode] With MOF R enabled, it isn't possible to mark a Layer document.
- (182555) [MOF R] [Encoder] With the encoder disconnected, marking is always started.
- (182976) [Laser Engine] [Laser Configuration] [MOF] [Encoder section] By configuring the Line speed parameter in the MOF X-Y section, the configured value is also set in the MOF R section (the two are mutually exclusive)
- (182699) [MOF R] [Ring document] [Timeout parameter] [Marking] Although rotor movement is interrupted, marking isn't interrupted.
- (183323) [Laser Engine] [System Test] [Encoder led indicator] Encoder icon works properly only if MOF is enabled.
- (183647) [Extended Layer document] [Marking results] With an object on the common side between two frames, the marking result is incorrect.
- (183659) [Global variables] By inserting, in a global text strings, the 'comma' character (,), everything to the right of the comma is ignored.
- (185619) [Lighter Suite] [MOF R] Marking with two text strings doesn't work correctly
- (186194) StartDelay for Continuous marking is not applied.
- (191752) [Laser Engine] [Ring document] [Statistics tab] : During marking, forcing a Laser Stop event, an Overrun Error appears
- (191757) [Laser Engine] [Auto mode] [Safety switches] : After INTERLOCK + Laser Stop, the first Ext Start is not received.
- (191842) [Laser Engine] [TCP/IP] [Move Axis command] [Global counter] : The global counter is incremented following synchronous movement of an axis
- (191848) [Lighter Suite] [Laser Engine] [Laser Stop] [Statistics] : Following a Laser Stop event, the OK entry in the Marking section is incremented even though marking isn't finished



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- (191951) [Laser Engine] [Laser Stop] [Laser Engine status] [Stop marking button] : Following a Laser Stop event, Laser Engine status and Stop marking button aren't updated correctly
- (192078) [Laser Engine] [TCP/IP] [Move Axis command] Occasionally at startup the axis cannot be moved and error 0014 is reported
- (192963) [VLase] [Laser Engine] [Global counter] [Interlock error] After an Interlock error, the first external start is accepted but not executed.
- (192964) [VLase] [Laser Editor] [Stop marking] [Status update] After interrupting a marking or limits, the Stop button status updates after about 4 seconds.
- (192966) [AREX3 MOPA] [Laser Engine] [Overrun error] By switching from Limits all to Limits on selection, an Overrun error appears.
- (194242) [Lighter Suite] [Laser Engine] [TCP Server] [Move Axis command] : The axis cannot be moved and error 0009 is reported
- (194854) [Start delay parameter] : By setting a start delay longer than the marking time, not only a start event is processed.
- (194923) [Start queue delay] : During marking, only the first start event of a queue of two start events is executed.
- (197098) [Service] [Scanhead Temperature Error events] After the first event, all subsequent events are counted twice
- (198189) [Laser Engine] [Laser Editor] [Auto mode] [Work mode] : By switching from Laser Engine to Laser Editor, in Work mode the first marking isn't performed
- (198456) [Profinet] Protocol Error not notified when writing in reserved area.
- (198990) [Laser Engine] [Auto mode] In AREX420 MW, the laser marker does not accept external start following an Interlock Error
- (199281) [Ulyxe DSP] [Lighter Suite] [Limits all] By moving the object in the document,the limits projection freezes.
- (202308) [MARVIS] [M220X] At powerup, occasionally unstable connection and focus position may be lost.

# 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\8.1\Docs”.

# RELEASE HISTORY

- **LIGHTER 8.1.3**

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.



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- **LIGHTER 8.1.2**

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 8.1.1**

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 8.1.0**

Suite for AREX xxx-x5x, AREX xxx-x6x.

- **LIGHTER 8.0.0**

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 7.5.2**

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.



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- **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-x54).

- **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.



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