



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

|                     |                                                                                                                                                     |             |                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|
| Certificate No.:    | <b>IECEx SIM 13.0005</b>                                                                                                                            | Page 1 of 5 | <u>Certificate history:</u> |
| Status:             | <b>Current</b>                                                                                                                                      | Issue No: 4 | Issue 3 (2017-12-15)        |
| Date of Issue:      | 2022-03-01                                                                                                                                          |             | Issue 2 (2014-12-05)        |
|                     |                                                                                                                                                     |             | Issue 1 (2013-08-06)        |
|                     |                                                                                                                                                     |             | Issue 0 (2013-05-22)        |
| Applicant:          | <b>Jatco (Australia) Pty Ltd t/a Applied Resolution Technologies</b><br>Lot 521 Sullivans Road<br>YAMBA NSW 2464<br>Australia                       |             |                             |
| Equipment:          | <b>Mining and Tunnel Lasers, Models: SLX-635P, FLXS-635-ST, FLXS-635-SC, BLX-635, SLX-635S, SLX-515S, SLM-635S, SLM-515S, BLX-635S and BLX-515S</b> |             |                             |
| Optional accessory: |                                                                                                                                                     |             |                             |
| Type of Protection: | <b>Intrinsic Safety "i"</b>                                                                                                                         |             |                             |
| Marking:            | Ex ia I<br><br>or<br><br>Ex ia IIB T*<br>* T rating T1, T3 or T4 dependant on batteries used (Refer Annex)                                          |             |                             |

Approved for issue on behalf of the IECEx  
Certification Body:

**Geoffrey Barnier**

Position:

**Principal Engineer - Certification**

Signature:  
(for printed version)



1 March 2022

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Safety in Mines Testing and Research Station (Simtars)**  
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Date of issue: 2022-03-01

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Manufacturer: **Jatco (Australia) Pty Ltd t/a Applied Resolution Technologies**  
Lot 521 Sullivans Road  
YAMBA NSW 2464  
**Australia**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements  
Edition:6.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[AU/SIM/ExTR13.0003/00](#)  
[AU/SIM/ExTR13.0003/03](#)

[AU/SIM/ExTR13.0003/01](#)  
[AU/SIM/ExTR13.0003/04](#)

[AU/SIM/ExTR13.0003/02](#)

Quality Assessment Report:

[AU/SIM/QAR10.0001/12](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The SL- and BL-series of Mining and Tunnel Lasers is a self-contained apparatus powered by a non-rechargeable battery pack consisting of alkaline cells in either AA-size, C-size or D-size options. Various configuration options allow the lasers to be used with removable or non-removable battery packs. In laser configurations fitted with non-removable battery packs, power to the laser circuitry is limited by a fuse located in the laser head. In removable battery pack configurations, the fuse is located in the battery pack. Fuses are not replaceable by the user.

Refer Annex for equipment configuration.

**SPECIFIC CONDITIONS OF USE: NO**



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Issue 1:

- Addition of new battery modules SB-AAA, BB-CC, BB-CCC and BB-CCCCC
- Addition of bronze/brass adaptors to modularize battery packs
- Other minor mechanical changes

### Issue 2:

- Addition of 6-cell removable battery packs using previously certified AA-, C- or D-type cells
- Addition of adapter fittings to extend range of laser head / battery module combinations
- Substitution of fuses with shorting link in laser heads fitted with removable battery packs
- Change to lower resistance fuse types
- Increase in resistance of resistor R1 on LCLNichia circuit board
- Alternative on/off switch for BLX-type lasers using C-cell battery packs
- Dimensional changes to BLXS laser-head housing
- Documentation changes and corrections

### Issue 3:

- Introduction of FLXS-635-ST and FLXS-635-SC Fiber Test Lasers to the range of lasers
- Alternative green laser diode for BLX-515S, SLX-515S and SLM-515S lasers
- Alternative lens for SLX- and SLM-series lasers
- Fitting of level vial to SLX- and SLM-series lasers now optional
- Documentation changes and corrections

### Issue 4:

- Optional fixed battery pack with 3 x type AA cells for SLX-635 and FLXS-635 series laser
- Optional fixed battery pack with 6 x type AA cells for SLX-515S laser



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**Additional information:**

The batteries can only be removed or replaced in a non-hazardous area.

Battery packs SB-AA, SB-AAA, SB-AAAAA, BB-CC, BB-CCC, BB-CCCCC, BB-DD, BB-DDD and BB-DDDDD are of the modular types and can be removed from the laser head in the hazardous area.

**Annex:**

[IECEX SIM 13.0005-4 ART Lasers Annex.pdf](#)



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## Manufacturer's documents:

### Drawings associated with Issue 0:

| Drawing No | Subject                                  | Rev. | Date       |
|------------|------------------------------------------|------|------------|
| 358        | Scheduled Docs                           | 1.1  | 16/05/2013 |
| 5          | Battery contact Isolator : Laser head    | 1.3  | 16/8/12    |
| 7          | Possible Battery Configurations by User  | 1.2  | 16/8/12    |
| 8          | BLX Laser head assembly                  | 1.3  | 17/8/12    |
| 9          | BLX Laser<br>Battery pack 3 x D          | 1.4  | 16/5/13    |
| 10         | BLX-635 Laser Head<br>Engraving Details  | 1.4  | 15/4/13    |
| 11         | BLX Battery Pack<br>Engraving Details    | 1.4  | 15/4/13    |
| 12         | BLX-Full 3 x D-Cell version              | 1.4  | 17/8/12    |
| 13         | BLX-635 Laser Head                       | 1.4  | 17/8/2012  |
| 14         | BLX laser module                         | 1.1  | 17/8/12    |
| 17         | SWITCH CONTACT AND ISOLATOR FOR BLX635   | 1.2  | 16/8/12    |
| 18         | SWITCH ISOLATOR FOR BLX635               | 1.1  | 16.8.12    |
| 19         | SWITCH ASSEMBLY FOR BLX635               | 1.1  | 16/8/12    |
| 24         | Laser holder                             | 1.2  | 17/8/12    |
| 26         | M40 thread definitions                   | 1.1  | 16/8/12    |
| 31         | ART SLX-635P LASER Parts List/BOM        | 2.0  | 26/4/13    |
| 35         | Output Window                            | 1.1  | 14/8/2012  |
| 37         | SLX Laser head assembly                  | 1.5  | 25/4/13    |
| 38         | SLX Laser head assembly                  | 1.2  | 14/8/12    |
| 39         | Potting compound and coating information | 1.2  | 13/12/12   |
| 40         | Fuse Information : all lasers            | 1.3  | 15/4/13    |

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| Drawing No | Subject                                                    | Rev. | Date       |
|------------|------------------------------------------------------------|------|------------|
| 41         | Laser modular assembly                                     | 1.2  | 14/8/12    |
| 42         | Diode housing 9mm                                          | 1.2  | 16/8/12    |
| 43         | XY adjustment housing fused module                         | 1.2  | 25/11/2012 |
| 44         | Battery Contact spring                                     | 1.1  | 14/8/12    |
| 45         | Switch assembly                                            | 1.3  | 14/8/12    |
| 46         | Laser switch body                                          | 1.1  | 14/8/12    |
| 47         | Switch knob                                                | 1.1  | 14/8/12    |
| 48         | Switch contact                                             | 1.1  | 14/8/12    |
| 49         | Switch isolator                                            | 1.1  | 14/8/12    |
| 50         | Laser Level Body                                           | 1.3  | 14/8/12    |
| 51         | SLX-635P laser body internals                              | 1.3  | 14/8/12    |
| 52         | Laser Level Vial Cover                                     | 1.1  | 14/8/12    |
| 53         | JATCO SLX-635P Laser Cross sections                        | 1.4  | 14/8/12    |
| 55         | Engraving Detail : Face #2 Manufacturer Detail             | 1.4  | 15/4/13    |
| 56         | Engraving Detail : Face #3 IECEx ia compliance information | 1.4  | 15/4/13    |
| 58         | JATCO SLX-635P Laser                                       | 1.3  | 14/8/12    |
| 62         | ARTLPL fuse board and battery contact circuit top          | 2.2  | 15/4/13    |
| 63         | SLX -635P & BLX -635 Laser Drive Circuits                  | 1.70 | 25/04/2013 |
| 64         | SLX & BLX Fuse definitions                                 | 2.20 | 25/4/13    |
| 65         | LCL001AT Laser drive circuit                               | 1.2  | 13/12/2012 |
| 66         | Laser Pulse Circuit 3 kHz                                  | 1.1  | 13/12/2012 |
| 67         | ARTLCL-001 Laser drive circuit Bottom Layer                | 1.1  | 14/8/12    |

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| Drawing No | Subject                                                         | Rev. | Date       |
|------------|-----------------------------------------------------------------|------|------------|
| 68         | ARTLCL laser drive circuit top layer                            | 1.1  | 14/8/12    |
| 69         | ARTLF fuse and battery contact circuit Segregation descriptions | 1.1  | 14/8/12    |
| 70         | ARTLF fuse board                                                | 2.1  | 14/8/12    |
| 71         | Potting compound and coating information                        | 1.2  | 15/4/13    |
| 72         | SLX and BLX circuit segregation issues                          | 1.3  | 25/4/13    |
| 175        | ART LASER PRODUCTS INVENTORY : BLX-635                          | 1.0  | 16/05/2013 |
| 193        | ART LASER PRODUCTS INVENTORY : BLX-635S                         | 2.1  | 16/05/2013 |
| 194        | Output Window                                                   | 1.2  | 17/8/12    |
| 195        | Battery contact and fuse                                        | 1.1  | 15/4/13    |
| 196        | Battery contact and fuse                                        | 1.1  | 15/4/13    |
| 197        | ISOLATOR FOR BLX switches                                       | 1.0  | 17/12/12   |
| 202        | Modular IECEx battery Pack SB-AA                                | 1.1  | 16/5/13    |
| 203        | SLX-635S and BLX-635S Laser Drive Circuits                      | 2.3  | 25/04/2013 |
| 204        | COMPLETE 2 X D-CELL BATTERY MODULE                              | 1.1  | 16/5/13    |
| 205        | Battery Body Subassembly                                        | 1.2  | 16/8/12    |
| 206        | Body Detail showing flats                                       | 1.1  | 16/8/12    |
| 207        | Battery Common body 2 D cells                                   | 1.0  | 16/8/12    |
| 208        | Body Detail showing flats                                       | 1.1  | 16/8/12    |
| 209        | Window locking Ring                                             | 1.1  | 16/8/12    |
| 210        | Window holding Ring                                             | 1.1  | 16/8/12    |
| 211        | Diode housing 5.6mm                                             | 1.1  | 15/4/13    |
| 212        | Diode housing short BLX                                         | 1.0  | 16/8/12    |

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| Drawing No | Subject                                      | Rev. | Date       |
|------------|----------------------------------------------|------|------------|
| 213        | Diode Collimating lens for BLX               | 1.0  | 16/8/12    |
| 214        | Laser holder                                 | 1.2  | 16/8/12    |
| 215        | SWITCH BODY FOR BLX635                       | 1.3  | 16/8/12    |
| 216        | SWITCH KNOB FOR BLX635                       | 1.2  | 1/9/2010   |
| 217        | Battery contact and fuse cutaway             | 1.0  | 16/8/12    |
| 218        | Sensor and SLM battery housing               | 1.0  | 16/8/12    |
| 219        | LPL circuit top                              | 1.1  | 15/4/13    |
| 220        | LPL circuit bottom side                      | 1.0  | 3/9/12     |
| 221        | New circuit assembly Laser driver/pulse/fuse | 1.0  | 3/9/12     |
| 223        | Engraving detail SLX-635S                    | 1.1  | 16/4/13    |
| 224        | Engraving detail SLX-635S                    | 1.1  | 16/4/13    |
| 225        | ART SLX-635S LASER Parts List/BOM            | 2.1  | 26/04/2013 |
| 227        | SLX-635S laser cross section                 | 1.0  | 5/09/2012  |
| 228        | SLX-635S Laser Level Body                    | 1.0  | 5/09/2012  |
| 229        | SLX-635S laser body internals                | 1.0  | 5/09/2012  |
| 230        | SLX-635S Module internals                    | 1.0  | 5/9/2012   |
| 231        | XY adjustment housing fused module           | 1.0  | 30/8/2012  |
| 233        | SLM-635M laser head                          | 1.0  | 16/12/2012 |
| 234        | Modular IECEx Laser : SLM-635S + SB-AA       | 1.1  | 16/5/13    |
| 235        | SLM-635M laser head                          | 1.0  | 5/9/2012   |
| 236        | ART SLM -635S LASER & SLB-AA Parts List/BOM  | 1.1  | 16/05/2013 |
| 238        | SLMENG1: Product Engraving battery module    | 1.1  | 16/4/13    |

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| Drawing No | Subject                                                 | Rev. | Date       |
|------------|---------------------------------------------------------|------|------------|
| 239        | Certification Information : SLM-635S and SLM-515S heads | 1.1  | 16/4/13    |
| 241        | Battery contact and fuse                                | 1.0  | 16/8/12    |
| 242        | Battery contact and fuse components                     | 1.1  | 16/4/13    |
| 243        | Plastic Insert for battery contact SB-AA                | 1.0  | 6/9/12     |
| 244        | Engraving detail SLX-515S                               | 1.1  | 16/4/13    |
| 245        | Engraving detail SLX-515S                               | 1.1  | 16/4/13    |
| 247        | SLX-515S laser cross section                            | 1.0  | 15/12/2012 |
| 248        | SLX-515S Module internals                               | 1.0  | 15/12/2012 |
| 249        | SLXS-515 module                                         | 1.0  | 14/12/12   |
| 250        | SLX-515S Laser head assembly                            | 1.0  | 14/9/12    |
| 254        | SLX -515S & BLX-515S GREEN Laser Drive Circuits         | 2.20 | 15/04/2013 |
| 255        | LCL Nichia diode laser driver                           | 1.1  | 16/4/13    |
| 256        | LCL Nichia diode laser driver                           | 1.1  | 16/4/13    |
| 260        | Circuit board orientation                               | 1.0  | 15/12/12   |
| 262        | BLXSFull                                                | 1.0  | 16/12/2012 |
| 263        | ART SLX-515S LASER Parts List/BOM                       | 2.1  | 16/4/13    |
| 264        | BLX-635S and/or BLX-515S laser module                   | 1.1  | 25/4/13    |
| 266        | BLXS-Assembly                                           | 1.0  | 8/9/12     |
| 267        | Diode housing short BLX                                 | 1.1  | 31/12/12   |
| 268        | SLXS module                                             | 1.0  | 14/12/12   |
| 282        | BLX-635 Laser Head                                      | 1.0  | 11/9/2012  |
| 283        | BLX-Full2 : 2 x D-Cell version                          | 1.0  | 12/9/2012  |

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| 284        | SLX635S Laser head assembly                   | 1.0  | 14/9/12    |
| 299        | LCL Nichia diode laser driver                 | 1.1  | 16/4/13    |
| 309        | SLX-515S laser body internals                 | 1.0  | 15/12/2012 |
| 310        | SLX-515S Laser Level Body                     | 1.0  | 15/12/2012 |
| 314        | LCLNikia Green Laser Driver                   | 1.0  | 15/12/2012 |
| 319        | ART SLM-515S LASER & SLB-AAAAA Parts List/BOM | 1.1  | 16/05/2013 |
| 321        | SLM-515M laser head                           | 1.0  | 16/12/2012 |
| 322        | Modular IECEx Laser : SLM-515S + SB-AAAAA     | 1.1  | 16/05/13   |
| 323        | 5 x AA cell SLM battery housing               | 1.0  | 16/8/12    |
| 324        | Modular IECEx Battery Pack SB-AAAAA           | 1.1  | 16/5/13    |
| 325        | BLX-515S battery body                         | 1.1  | 15/4/13    |
| 326        | BLX-635S battery body                         | 1.0  | 16/12/12   |
| 327        | BLX-635S battery body                         | 1.0  | 16/12/12   |
| 328        | BLXL-010-1 hex laser head C-cells             | 1.0  | 12/9/2012  |
| 329        | SWITCH BODY FOR BLX-635S/BLX-515S             | 1.1  | 16/4/13    |
| 330        | SWITCH ASSEMBLY FOR BLX-635S and BLX-515S     | 1.1  | 16/4/13    |
| 331        | Window holder/lens adjustor Ring              | 1.0  | 17/12/12   |
| 335        | ART LASER PRODUCTS INVENTORY :<br>BLX-515S    | 2.1  | 16/05/2013 |
| 336        | SLX Battery isolation washer                  | 1.0  | 17/12/12   |
| 337        | BLX Battery isolation washer                  | 1.0  | 17/12/12   |
| 338        | BLX Battery isolation washer                  | 1.0  | 18/12/12   |
| 339        | BLX-515S battery body                         | 1.1  | 16/5/13    |

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|------------|-------------------------------------------------------|------|------------|
| 340        | BLXL-010-2 hex laser head D-cell                      | 1.0  | 18/12/2012 |
| 345        | BLX-635S Laser Head Engraving Details                 | 1.0  | 7/1/13     |
| 346        | BLX-635S Laser Head Engraving Details                 | 1.1  | 16/4/13    |
| 347        | BLX-515S Laser Head Engraving Details                 | 1.2  | 25/4/13    |
| 348        | SLX-515S laser body internals                         | 1.0  | 14/1/13    |
| 349        | SLX-515S Laser Level Body                             | 1.0  | 14/1/13    |
| 350        | SLX-515S laser body internals                         | 1.0  | 14/1/13    |
| 351        | SLM -515S GREEN Laser Drive Circuits                  | 2.20 | 16/04/2013 |
| 352        | SLM-635S Laser Drive Circuits                         | 2.20 | 16/04/2013 |
| 353        | Engraving Detail: Face #4 Warning battery replacement | 1.0  | 15/4/13    |
| 354        | Diode housing 5.6mm                                   | 1.0  | 15/4/13    |
| 355        | SH-03MBA window head                                  | 1.0  | 15/4/13    |
| 356        | BLXSFull                                              | 1.2  | 26/4/13    |
| 357        | BLX-635S AND BLX-515S Battery Body Engraving Details  | 1.0  | 26/4/13    |

## Drawings associated with Issue 1:

| Drawing No       | Subject                                   | Rev. | Date       |
|------------------|-------------------------------------------|------|------------|
| 358<br>(6 pages) | Scheduled Docs                            | 1.3  | 18/07/2013 |
| 217              | Battery contact and fuse cutaway          | 1.1  | 13/7/13    |
| 238              | SLMENG1: Product Engraving battery module | 1.3  | 13/7/13    |
| 328              | BLXL-010-1 hex laser head C-cells         | 1.1  | 13/7/13    |
| 340              | BLXL-010-2 hex laser head D-cell          | 1.1  | 13/7/2013  |
| 361              | LaserRange2                               | 1.0  | 8/7/13     |
| 362              | Sensor and SLM battery housing            | 1.0  | 8/7/13     |

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| Drawing No | Subject                                      | Rev. | Date    |
|------------|----------------------------------------------|------|---------|
| 363        | Modular IECEx Battery Pack SB-AAA            | 1.0  | 8/7/13  |
| 364        | Modular IECEx Laser : SLM-635S + SB-AAA      | 1.0  | 8/7/13  |
| 366        | BLXSA adaptor                                | 1.0  | 8/7/13  |
| 367        | LaserRange3 C-cells                          | 1.0  | 8/7/13  |
| 368        | Modular IECEx Battery Pack BB-CC             | 1.0  | 13/7/13 |
| 369        | Modular IECEx Battery Pack BB-CCC            | 1.0  | 13/7/13 |
| 370        | Modular IECEx Battery Pack BB-CCCCC          | 1.0  | 13/7/13 |
| 371        | BLXS-C-Adaptor                               | 1.0  | 13/7/13 |
| 372        | SLMENG8 : Product Engraving C battery module | 1.1  | 18/7/13 |

## Drawings associated with Issue 2:

| Drawing No | Subject                                                         | Rev. | Date     |
|------------|-----------------------------------------------------------------|------|----------|
| 8          | BLX Laser head assembly                                         | 1.5  | 6/11/14  |
| 12         | BLX-Full 3 x D-Cell version                                     | 1.5  | 17/9/14  |
| 40         | Fuse information                                                | 1.6  | 6/11/14  |
| 62         | ARTLPL fuse board and battery contact circuit top               | 2.5  | 6/11/14  |
| 64         | SLX, SLM & BLX Fuse definitions                                 | 2.60 | 6/11/14  |
| 69         | ARTLF fuse and battery contact circuit Segregation descriptions | 1.2  | 17/9/14  |
| 70         | ARTLF fuse board                                                | 2.4  | 6/11/14  |
| 72         | SLX and BLX circuit segregation issues                          | 1.4  | 17/9/14  |
| 202        | Modular IECEx Battery Pack SB-AA                                | 1.2  | 17/10/14 |
| 203        | SLX-635S and BLX-635S Laser Drive Circuits                      | 2.40 | 17/09/14 |
| 205        | Battery Body Subassembly                                        | 1.3  | 26/11/14 |
| 207        | Battery Common body 2 D cells                                   | 1.1  | 26/11/14 |

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| Drawing No | Subject                                        | Rev. | Date      |
|------------|------------------------------------------------|------|-----------|
| 217        | Battery contact and fuse cutaway               | 1.2  | 17/10/14  |
| 233        | SLM-635M laser head                            | 1.1  | 17/9/14   |
| 234        | Modular IECEx Laser : SLM-635S + SB-AA         | 1.2  | 17/9/14   |
| 238        | SLMENG1 : Product Engraving battery module     | 1.4  | 26/11/14  |
| 242        | Battery contact and fuse components            | 1.2  | 7/11/14   |
| 245        | Engraving detail SLX-515S                      | 1.2  | 26/11/14  |
| 248        | SLX-515S Module internals                      | 1.1  | 16/10/14  |
| 249        | SLXS-515 module                                | 1.1  | 17/9/14   |
| 254        | SLX-515S & BLX-515S GREEN Laser Drive Circuits | 2.30 | 17/09/14  |
| 255        | LCL Nichia diode laser driver                  | 1.2  | 17/9/14   |
| 256        | LCL Nichia diode laser driver                  | 1.2  | 17/9/14   |
| 262        | BLXSFull                                       | 1.1  | 7/11/14   |
| 263        | ART SLX-515S LASER Parts List/BOM              | 2.2  | 26/11/14  |
| 264        | BLX-635S and/or BLX-515S laser module          | 1.2  | 17/9/14   |
| 266        | BLXS-Assembly                                  | 1.1  | 17/9/14   |
| 283        | BLX-Full2 : 2 x D cell version                 | 1.1  | 17/9/14   |
| 309        | SLX-515S laser body internals                  | 1.1  | 9.10.2014 |
| 310        | SLX-515S Laser Level Body                      | 1.1  | 9/10/14   |
| 314        | LCLNichia Green Laser Driver                   | 1.1  | 15/09/14  |
| 319        | ART SLM-515S LASER & SLB-AAAAA Parts List/BOM  | 1.2  | 6/11/2014 |
| 321        | SLM-515M laser head                            | 1.1  | 17/9/14   |
| 322        | Modular IECEx Laser : SLM-515S + SB-AAAAA      | 1.2  | 9.10.14   |

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| Drawing No       | Subject                                                    | Rev. | Date       |
|------------------|------------------------------------------------------------|------|------------|
| 323              | 5 x AA and 6 x AA cell SLM battery housing                 | 1.1  | 9/10/14    |
| 324              | Modular IECEx Battery Pack SB-AAAAA                        | 1.2  | 17/10/14   |
| 335              | ART LASER PRODUCTS INVENTORY : BLX-515S                    | 2.2  | 6/11/2014  |
| 351              | SLM-515S GREEN Laser Drive Circuits                        | 2.40 | 17/10/14   |
| 352              | SLM-635S Laser Drive Circuits                              | 2.40 | 17/10/14   |
| 356              | BLXSRange                                                  | 1.4  | -          |
| 357              | BLX-635S AND BLX-515S<br>Battery Body Engraving<br>Details | 1.1  | 26/11/14   |
| 358<br>(7 Pages) | Scheduled Docs                                             | 1.7  | 26/11/2014 |
| 361              | LaserRange2                                                | 1.2  | -          |
| 363              | Modular IECEx Battery Pack SB-AAA                          | 1.1  | 17/10/14   |
| 364              | Modular IECEx Laser : SLM-635S + SB-AAA                    | 1.1  | 17/9/14    |
| 365              | BLXSFull                                                   | 1.1  | 17/9/14    |
| 366              | BLXSAdaptor                                                | 1.1  | 17/9/14    |
| 367              | LaserRange3 C-cells                                        | 1.2  | 7/11/14    |
| 396              | Removable Battery MODULE cross-reference                   | 6    | 17/10/14   |
| 397              | Laser Subassembly cross-reference                          | 4    | 6/11/2014  |
| 398              | Configurations.doc                                         | 5    | 26/11/14   |
| 399              | LCLNichiatop2                                              | 1.0  | 18/9/14    |
| 400              | LCLNichiabott2                                             | 1.0  | 18/9/14    |
| 401              | BLXS-C-Adaptor2                                            | 1.0  | /9/14      |
| 402              | 3-cell part of 5-cell body                                 | 1.0  | 8/10/14    |
| 403              | Battery body for 2 x D-cell extension                      | 1.1  | 26/11/14   |

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|------------|---------------------------------------|------|----------|
| 404        | BLXB-D-Adaptor part 1                 | 1.0  | 9/10/14  |
| 405        | LaserRange4 C 6-cells                 | 1.1  | 7/11/14  |
| 406        | Battery body for 5 x D-Cells          | 1.0  | 8/10/14  |
| 407        | 3 x D-cell battery Body               | 1.0  | 8/10/14  |
| 408        | BLXB-D-Adaptor part2                  | 1.0  | 9/10/14  |
| 409        | BBB-3, 5, 6D assembly                 | 1.1  | 26/11/14 |
| 410        | BLXB-D-Adaptor                        | 1.0  | 8/10/14  |
| 412        | BLXSWITCHC1                           | 1.0  | 9/10/14  |
| 413        | BLXSWITCHC1                           | 1.0  | 9/10/14  |
| 414        | Battery body upgrade                  | 1.0  | 9/10/14  |
| 415        | Battery body upgrade                  | 1.0  | 9/10/14  |
| 416        | Modular IECEx Battery Pack SB-6A      | 1.1  | 16/10/14 |
| 417        | Battery body for 3 x D-Cell extension | 1.1  | 26/11/14 |

## Drawings associated with Issue 3:

| Drawing No | Subject                                    | Rev. | Date       |
|------------|--------------------------------------------|------|------------|
| 40         | Fuse information                           | 1.7  | 3/8/17     |
| 64         | SLX, FLX, SLM & BLX Fuse definitions       | 2.7  | 4/08/2017  |
| 203        | SLX-635S and BLX-635S Laser Drive Circuits | 2.5  | 14/0820/17 |
| 227        | SLX-635S laser cross section               | 1.1  | 4/8/2017   |
| 228        | SLX-635S Laser Level Body                  | 1.1  | 4/8/17     |
| 229        | SLX-635S laser body internals              | 1.1  | 4/8/2017   |
| 230        | SLX-635S Module internals                  | 1.1  | 2/11/17    |
| 233        | SLM-635M laser head                        | 1.2  | 2/11/17    |

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|------------------|------------------------------------------------|------|------------|
| 234              | Modular IECEx Laser : SLM-635S + SB-AA         | 1.3  | 4/8/17     |
| 235              | SLM-635M laser head                            | 1.1  | 4/8/17     |
| 247              | SLX-515S laser cross section                   | 1.1  | 4/8/2017   |
| 248              | SLX-515S Module internals                      | 1.2  | 3/8/17     |
| 249              | SLXS-515 module                                | 1.2  | 3/7/17     |
| 254              | SLX-515S & BLX-515S GREEN Laser Drive Circuits | 2.50 | 14/08/2017 |
| 0263             | ART SLX-515S LASER Parts List/BOM              | 2.3  | 14/8/17    |
| 268              | SLXS module                                    | 1.1  | 4/8/2017   |
| 309              | SLX-515S laser body internals                  | 1.2  | 4/8/2017   |
| 310              | SLX-515S Laser Level Body                      | 1.2  | 4/8/2017   |
| 0319             | ART SLM-515S LASER & SLB-AAAAA Parts List/BOM  | 1.3  | 14/08/2017 |
| 321              | SLM-515M laser head                            | 1.2  | 4/8/17     |
| 322              | Modular IECEx Laser : SLM-515S + SB-AAAAA      | 1.3  | 4/8/17     |
| 0335             | ART LASER PRODUCTS INVENTORY : BLX-515S        | 2.3  | 14/08/2017 |
| 351              | SLM-515S GREEN Laser Drive Circuits            | 2.5  | 4/08/2017  |
| 358<br>(8 pages) | 358 IECEx SIM 13.0005                          | 1.9  | 2/11/17    |
| 361              | LaserRange2                                    | 1.3  | 2/11/2017  |
| 364              | Modular IECEx Laser : SLM-635S + SB-AAA        | 1.2  | 4/8/2017   |
| 367              | LaserRange3 C-cells                            | 1.3  | 2/11/17    |
| 397              | Laser Subassembly cross-reference              | 5    | 4/8/17     |
| 398<br>(2 pages) | Configurations.doc                             | 6    | 31/7/17    |
| 405              | LaserRange4 C 6-cells                          | 1.2  | 4/8/2017   |

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|------------|-------------------------------------------|------|------------|
| 450        | FLX laser cross section                   | 1.0  | 13-7-2017  |
| 451        | FLX-635S DELRIN INSERT                    | 1.0  | 13-7-2017  |
| 452        | FLX-635S Module internals                 | 1.0  | 13/07/2017 |
| 453        | FLX laser cross section                   | 1.0  | 13-7-2017  |
| 454        | FLX-ST diode                              | 1.0  | 13/07/2017 |
| 455        | FLX-SC diode                              | 1.0  | 13/07/2017 |
| 456        | FLX-SC module                             | 1.0  | 13/07/2017 |
| 457        | FLX-SC laser cross section                | 1.0  | 13-7-2017  |
| 458        | FLX-SC insert                             | 1.0  | 13-7-2017  |
| 459        | FLX-SC laser cross section                | 1.0  | 13-7-2017  |
| 460        | USER INSTRUCTIONS                         | 1    | 2/11/17    |
| 0461       | ART FLX-635ST and SC LASER Parts List/BOM | 1.0  | 1/08/2017  |
| 463        | Engraving detail FLXS-635-ST and -SC      | 1.0  | 14/8/17    |
| 464        | Engraving detail FLXS-635-ST and -SC      | 1.0  | 2/11/17    |
| 469        | New Laser Module                          | 1.0  | 4/8/17     |
| 470        | GE8E boss                                 | 1.0  | 4/8/17     |
| 471        | BrassModule                               | 1.0  | 4/8/17     |
| 472        | New Lens                                  | 1.0  | 4/8/17     |

## Drawings associated with Issue 4:

| Drawing No | Subject                           | Rev. | Date       |
|------------|-----------------------------------|------|------------|
| 225        | ART SLX-635S LASER Parts List/BOM | 2.2  | 13/02/2022 |
| 227        | SLX-635S laser cross section      | 1.2  | 13/2/22    |
| 228        | SLX-635S Laser Level Body         | 1.2  | 13/2/22    |

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| Drawing No       | Subject                                   | Rev. | Date       |
|------------------|-------------------------------------------|------|------------|
| 229              | SLX-635S laser body internals             | 1.2  | 13/2/22    |
| 397              | Laser Subassembly cross-reference         | 6    | 24/2/22    |
| 398<br>(2 Pages) | Configurations.doc                        | 7    | 24/2/22    |
| 450              | FLX laser cross section                   | 2.0  | 13/2/22    |
| 453              | FLX laser cross section                   | 2.0  | 13/2/22    |
| 457              | FLXS-SC laser cross section               | 2.0  | 13/2/22    |
| 459              | FLXS-SC laser cross section               | 2.0  | 13/2/22    |
| 461              | ART FLX-635ST and SC LASER Parts List/BOM | 2.0  | 13/02/2022 |
| 500              | SLXRange                                  | 1.0  | 24/2/2022  |

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## Equipment associated with Issue 0:

### Battery types and temperature classification for each model

| Model Number | Permitted Battery type & number                  | Temperature Classification |
|--------------|--------------------------------------------------|----------------------------|
| SLX-635P     | Panasonic Industrial LR6XW<br>AA size 2EA        | T3                         |
| BLX-635      | Panasonic Industrial LR20XW<br>D size 2EA or 3EA | T3                         |
| SLX-635S     | Panasonic Industrial LR6XW<br>AA size 2EA        | T3                         |
| SLX-515S     | Panasonic Industrial LR6XW<br>AA size 5EA        | T1                         |
| SLM-635S     | Panasonic Industrial LR6XW<br>AA size 2EA        | T3                         |
| SLM-515S     | Panasonic Industrial LR6XW<br>AA size 5EA        | T1                         |
| BLX-635S     | Panasonic Industrial LR14XW<br>C size 2EA or 3EA | T4                         |
|              | Panasonic Industrial LR20XW<br>D size 2EA or 3EA | T3                         |
| BLX-515S     | Panasonic Industrial LR14XW<br>C size 5EA        | T1                         |
|              | Panasonic Industrial LR6XW<br>AA size 5ea or     | T1                         |

## Equipment associated with Issue 1:

### Battery types and temperature classification for each model

| Model Number | Permitted Battery type & number                  | Temperature Classification |
|--------------|--------------------------------------------------|----------------------------|
| SLM-635S     | Panasonic Industrial LR6XW<br>AA size 3ea        | T3                         |
|              | Panasonic Industrial LR14XW<br>C size 2ea or 3ea | T4                         |
| SLM-515S     | Panasonic Industrial LR14XW<br>C size 5ea        | T1                         |
| BLX-635S     | Panasonic Industrial LR6XW<br>AA size 2ea or 3ea | T3                         |
|              | Panasonic Industrial LR14XW<br>C size 2ea or 3ea | T4                         |
| BLX-515S     | Panasonic Industrial LR6XW<br>AA size 5ea        | T1                         |
|              | Panasonic Industrial LR14XW<br>C size 5ea        | T1                         |

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## Equipment associated with Issue 2:

### Configuration options

| Laser Head:            | SLX-635P                           | BLX-635          | SLX-635S                           | SLX-515S         | SLM-635S                           | SLM-515S         | BLX-635S         | BLX-515S         |
|------------------------|------------------------------------|------------------|------------------------------------|------------------|------------------------------------|------------------|------------------|------------------|
| 62 mA fuse             | *                                  | *                | *                                  |                  |                                    |                  | *                |                  |
| 80 mA fuse             |                                    |                  |                                    | *                |                                    |                  |                  | *                |
| Pulse modulation       |                                    |                  | *                                  | *                | *                                  | *                | *                | *                |
| Green laser            |                                    |                  |                                    | NDG1216E (10 mW) |                                    | NDG1216E (10 mW) |                  | NDG1216E (10 mW) |
| Red laser              | HL6354MG (5 mW) or HL6358MG (10mW) | HL6358MG (10 mW) | HL6354MG (5 mW) or HL6358MG (10mW) |                  | HL6354MG (5 mW) or HL6358MG (10mW) |                  | HL6358MG (10 mW) |                  |
| Permanent Battery Pack |                                    |                  |                                    |                  |                                    |                  |                  |                  |
| 2 x AA size            | *                                  |                  | *                                  |                  |                                    |                  |                  |                  |
| 5 x AA size            |                                    |                  |                                    | *                |                                    |                  |                  |                  |
| 2 x C size             |                                    |                  |                                    |                  |                                    |                  | *                |                  |
| 3 x C size             |                                    |                  |                                    |                  |                                    |                  | *                |                  |
| 5 x C size             |                                    |                  |                                    |                  |                                    |                  |                  | *                |
| Modular Battery Pack   |                                    |                  |                                    |                  |                                    |                  |                  |                  |
| SB-AA 451.062 fuse     |                                    |                  |                                    |                  | *                                  |                  | *                |                  |
| SB-AAA 451.062 fuse    |                                    |                  |                                    |                  | *                                  |                  | *                |                  |
| SB-AAAAA 451.080 fuse  |                                    |                  |                                    |                  |                                    | *                |                  | *                |
| SB-6A 242.080 fuse     |                                    |                  |                                    |                  |                                    | *                |                  | *                |
| BB-CC 451.062 fuse     |                                    |                  |                                    |                  | *                                  |                  | *                |                  |
| BB-CCC 451.062 fuse    |                                    |                  |                                    |                  | *                                  |                  | *                |                  |
| BB-CCCC 451.080 fuse   |                                    |                  |                                    |                  |                                    | *                |                  | *                |
| BB-6C 242.080 fuse     |                                    |                  |                                    |                  |                                    | *                |                  | *                |
| BB-DD 451.062 fuse     |                                    | *                |                                    |                  | *                                  |                  | *                |                  |
| BB-DDD 451.062 fuse    |                                    | *                |                                    |                  | *                                  |                  | *                |                  |
| BB-DDDDD 451.080 fuse  |                                    |                  |                                    |                  |                                    | *                |                  | *                |
| BB-6D 242.080 fuse     |                                    |                  |                                    |                  |                                    | *                |                  | *                |

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## Battery types and temperature classification for each model

| Model Number | Permitted Battery type & number               | Temperature Classification |
|--------------|-----------------------------------------------|----------------------------|
| SLX-635P     | Panasonic Industrial LR6XW AA size 2ea        | T3                         |
| BLX-635      | Panasonic Industrial LR20XW D size 2ea or 3ea | T3                         |
| SLX-635S     | Panasonic Industrial LR6XW AA size 2ea        | T3                         |
| SLX-515S     | Panasonic Industrial LR6XW AA size 5ea        | T1                         |
| SLM-635S     | Panasonic Industrial LR6XW AA size 2ea or 3ea | T3                         |
|              | Panasonic Industrial LR14XW C size 2ea or 3ea | T4                         |
|              | Panasonic Industrial LR20XW D size 2ea or 3ea | T3                         |
| SLM-515S     | Panasonic Industrial LR6XW AA size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR14XW C size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR20XW D size 5ea or 6ea | T1                         |
| BLX-635S     | Panasonic Industrial LR6XW AA size 2ea or 3ea | T3                         |
|              | Panasonic Industrial LR14XW C size 2ea or 3ea | T4                         |
|              | Panasonic Industrial LR20XW D size 2ea or 3ea | T3                         |
| BLX-515S     | Panasonic Industrial LR6XW AA size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR14XW C size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR20XW D size 5ea or 6ea | T1                         |

## Equipment associated with Issue 3:

### Configuration options

| Laser Head:      | SLX-635P                            | FLXS-635-ST/-SC   | BLX-635          | SLX-635S                            | SLX-515S                     | SLM-635S                            | SLM-515S                     | BLX-635S         | BLX-515S                     |
|------------------|-------------------------------------|-------------------|------------------|-------------------------------------|------------------------------|-------------------------------------|------------------------------|------------------|------------------------------|
| 62 mA fuse       | *                                   | *                 | *                | *                                   |                              |                                     |                              | *                |                              |
| 80 mA fuse       |                                     |                   |                  |                                     | *                            |                                     |                              |                  | *                            |
| Pulse modulation |                                     |                   |                  | *                                   | *                            | *                                   | *                            | *                | *                            |
| Green laser      |                                     |                   |                  |                                     | NDG1216E or PLT5 510 (10 mW) |                                     | NDG1216E or PLT5 510 (10 mW) |                  | NDG1216E or PLT5 510 (10 mW) |
| Red laser        | HL6354MG (5 mW) or HL6358MG (10 mW) | T635-WFSP5 (5 mW) | HL6358MG (10 mW) | HL6354MG (5 mW) or HL6358MG (10 mW) |                              | HL6354MG (5 mW) or HL6358MG (10 mW) |                              | HL6358MG (10 mW) |                              |

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| Laser Head:              | SLX-635P | FLXS-635-ST/-SC | BLX-635 | SLX-635S | SLX-515S | SLM-635S | SLM-515S | BLX-635S | BLX-515S |
|--------------------------|----------|-----------------|---------|----------|----------|----------|----------|----------|----------|
| Permanent Battery Pack   |          |                 |         |          |          |          |          |          |          |
| 2 x AA size              | *        | *               |         | *        |          |          |          |          |          |
| 5 x AA size              |          |                 |         |          | *        |          |          |          |          |
| 2 x C size               |          |                 |         |          |          |          |          | *        |          |
| 3 x C size               |          |                 |         |          |          |          |          | *        |          |
| 5 x C size               |          |                 |         |          |          |          |          |          | *        |
| Modular Battery Pack     |          |                 |         |          |          |          |          |          |          |
| SB-AA<br>451.062 fuse    |          |                 |         |          |          | *        |          | *        |          |
| SB-AAA<br>451.062 fuse   |          |                 |         |          |          | *        |          | *        |          |
| SB-AAAAA<br>451.080 fuse |          |                 |         |          |          |          | *        |          | *        |
| SB-6A<br>242.080 fuse    |          |                 |         |          |          |          | *        |          | *        |
| BB-CC<br>451.062 fuse    |          |                 |         |          |          | *        |          | *        |          |
| BB-CCC<br>451.062 fuse   |          |                 |         |          |          | *        |          | *        |          |
| BB-CCCCC<br>451.080 fuse |          |                 |         |          |          |          | *        |          | *        |
| BB-6C<br>242.080 fuse    |          |                 |         |          |          |          | *        |          | *        |
| BB-DD<br>451.062 fuse    |          |                 | *       |          |          | *        |          | *        |          |
| BB-DDD<br>451.062 fuse   |          |                 | *       |          |          | *        |          | *        |          |
| BB-DDDDD<br>451.080 fuse |          |                 |         |          |          |          | *        |          | *        |
| BB-6D<br>242.080 fuse    |          |                 |         |          |          |          | *        |          | *        |

## Battery types and temperature classification for each model

| Model Number | Permitted Battery type & number           | Temperature Classification |
|--------------|-------------------------------------------|----------------------------|
| SLX-635P     | Panasonic Industrial LR6XW<br>AA size 2ea | T3                         |
| FLXS-635-ST  | Panasonic Industrial LR6XW<br>AA size 2ea | T3                         |
| FLXS-635-SC  | Panasonic Industrial LR6XW<br>AA size 2ea | T3                         |

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| Model Number | Permitted Battery type & number                  | Temperature Classification |
|--------------|--------------------------------------------------|----------------------------|
| BLX-635      | Panasonic Industrial LR20XW<br>D size 2ea or 3ea | T3                         |
| SLX-635S     | Panasonic Industrial LR6XW<br>AA size 2ea        | T3                         |
| SLX-515S     | Panasonic Industrial LR6XW<br>AA size 5ea        | T1                         |
| SLM-635S     | Panasonic Industrial LR6XW<br>AA size 2ea or 3ea | T3                         |
|              | Panasonic Industrial LR14XW<br>C size 2ea or 3ea | T4                         |
|              | Panasonic Industrial LR20XW<br>D size 2ea or 3ea | T3                         |
| SLM-515S     | Panasonic Industrial LR6XW<br>AA size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR14XW<br>C size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR20XW<br>D size 5ea or 6ea | T1                         |
| BLX-635S     | Panasonic Industrial LR6XW<br>AA size 2ea or 3ea | T3                         |
|              | Panasonic Industrial LR14XW<br>C size 2ea or 3ea | T4                         |
|              | Panasonic Industrial LR20XW<br>D size 2ea or 3ea | T3                         |
| BLX-515S     | Panasonic Industrial LR6XW<br>AA size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR14XW<br>C size 5ea or 6ea | T1                         |
|              | Panasonic Industrial LR20XW<br>D size 5ea or 6ea | T1                         |

## Equipment associated with Issue 4:

### Configuration options

| Laser Head:            | SLX-635P                                     | FLXS-635-ST/-SC          | BLX-635             | SLX-635S                                     | SLX-515S                           | SLM-635S                                     | SLM-515S                           | BLX-635S            | BLX-515S                           |
|------------------------|----------------------------------------------|--------------------------|---------------------|----------------------------------------------|------------------------------------|----------------------------------------------|------------------------------------|---------------------|------------------------------------|
| 62 mA fuse             | *                                            | *                        | *                   | *                                            |                                    |                                              |                                    | *                   |                                    |
| 80 mA fuse             |                                              |                          |                     |                                              | *                                  |                                              |                                    |                     | *                                  |
| Pulse modulation       |                                              | *                        |                     | *                                            | *                                  | *                                            | *                                  | *                   | *                                  |
| Green laser            |                                              |                          |                     |                                              | NDG1216E<br>or PLT5 510<br>(10 mW) |                                              | NDG1216E<br>or PLT5 510<br>(10 mW) |                     | NDG1216E<br>or PLT5 510<br>(10 mW) |
| Red laser              | HL6354MG<br>(5 mW) or<br>HL6358MG<br>(10 mW) | T635-<br>WFxx5<br>(5 mW) | HL6358MG<br>(10 mW) | HL6354MG<br>(5 mW) or<br>HL6358MG<br>(10 mW) |                                    | HL6354MG<br>(5 mW) or<br>HL6358MG<br>(10 mW) |                                    | HL6358MG<br>(10 mW) |                                    |
| Permanent Battery Pack |                                              |                          |                     |                                              |                                    |                                              |                                    |                     |                                    |
| 2 x AA size            | *                                            | *                        |                     | *                                            |                                    |                                              |                                    |                     |                                    |

Certificate issued by:

**Safety in Mines Testing  
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(Simtars)**

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REDBANK QLD 4301  
Australia

**Simtars**



# IECEx Certificate of Conformity

Certificate No.: **IECEx SIM 13.0005**  
**Annex**

Issue No.: 4  
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| Laser Head:              | SLX-635P | FLXS-635-ST/-SC | BLX-635 | SLX-635S | SLX-515S | SLM-635S | SLM-515S | BLX-635S | BLX-515S |
|--------------------------|----------|-----------------|---------|----------|----------|----------|----------|----------|----------|
| 3 x AA size              | *        | *               |         | *        |          |          |          |          |          |
| 5 x AA size              |          |                 |         |          | *        |          |          |          |          |
| 6 x AA size              |          |                 |         |          | *        |          |          |          |          |
| 2 x C size               |          |                 |         |          |          |          |          | *        |          |
| 3 x C size               |          |                 |         |          |          |          |          | *        |          |
| 5 x C size               |          |                 |         |          |          |          |          |          | *        |
| Modular Battery Pack     |          |                 |         |          |          |          |          |          |          |
| SB-AA<br>451.062 fuse    |          |                 |         |          |          | *        |          | *        |          |
| SB-AAA<br>451.062 fuse   |          |                 |         |          |          | *        |          | *        |          |
| SB-AAAAA<br>451.080 fuse |          |                 |         |          |          |          | *        |          | *        |
| SB-6A<br>242.080 fuse    |          |                 |         |          |          |          | *        |          | *        |
| BB-CC<br>451.062 fuse    |          |                 |         |          |          | *        |          | *        |          |
| BB-CCC<br>451.062 fuse   |          |                 |         |          |          | *        |          | *        |          |
| BB-CCCC<br>451.080 fuse  |          |                 |         |          |          |          | *        |          | *        |
| BB-6C<br>242.080 fuse    |          |                 |         |          |          |          | *        |          | *        |
| BB-DD<br>451.062 fuse    |          |                 | *       |          |          | *        |          | *        |          |
| BB-DDD<br>451.062 fuse   |          |                 | *       |          |          | *        |          | *        |          |
| BB-DDDDD<br>451.080 fuse |          |                 |         |          |          |          | *        |          | *        |
| BB-6D<br>242.080 fuse    |          |                 |         |          |          |          | *        |          | *        |

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