

**LASER S.O.S. GROUP**

TECHNOLOGY AND MARKET DRIVEN COMPANY!

# LASER LAMPS & I.P.L. LIGHT SOURCES

Issue 1.



Intelligent Solutions, Manufacturing & Development



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TECHNOLOGY AND MARKET DRIVEN COMPANY!

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# LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

# LASER LAMPS & I.P.L. LIGHT SOURCES

*For Lamp Pumped Laser Systems*

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# LASER LAMPS & I.P.L. LIGHT SOURCES

*For Lamp Pumped Laser Systems*



Laser S.O.S. provides the solid state laser industry with the largest range of Laser lamps and I.P.L. light sources available.

In many cases there are a several laser lamps available for any given Laser and I.P.L. systems. Where possible Laser S.O.S. will provide the lamp from the lamp manufacturer of your choice.

Laser lamps and I.P.L. light sources are continuously being improved, so we at Laser S.O.S. will at all times provide the lamp best suited for your system.

There are thousands of laser lamps that Laser S.O.S. can readily provide subject to their availability for distribution. Our extensive cross-reference list should identify the compatible lamp for your system.

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# LASER LAMPS & I.P.L. LIGHT SOURCES

For Lamp Pumped Laser Systems

Intelligent Solutions, Manufacturing & Development

| NUMBER                | ITEM PART NUMBER | LASER RAIL  |
|-----------------------|------------------|---|
| <b>AB LASER INC.</b>  |                  |   |
| 1                     | LL512AS          | Baasel 600, 80750-005, 131100029, 209-0889  |
| 2                     | LL601S           | Baasel 601, 80750-006, 131100030, 202-0833  |
| 3                     | LL166            | Baasel 2001, 6000, StarMark SM65, 80750-009, 131100032, 131100054, 209-08891            |
| 4                     | LL209            | Baasel 2001, 6000, StarMark SM90, 80750-008, 131100031, 202-0831                        |
| 5                     | LL700            | Baasel StarMark SM150, 80750-029, 131100046, 209-10481                                  |
| 6                     | LLXF889          | Baasel StarCut 10, 4001, BLS27, BLS701, BLS710, BLS720, 80750-026, 131100043, 80750-012 |
| 7                     | LL9600           | Baasel StarWeld Performance, 80750-012, 1311000035                                      |
| 8                     | LL9615           | Baasel StarWeld, 80750-027, 131100044   |
| 9                     | LL2412           | Baasel StarWeld Tool 100W, 80750-043, 131100052   |
| 10                    | LLJK37           | Baasel StarWeld 150W, BLS730, 80750-01  |
| 11                    | LL9674           | Baasel StarWeld 250W, 80750-028, 131100132  |
| 12                    | LL1122           | Baasel StarWeld 500W, Xenon   |
| 13                    | LL1123           | Baasel StarWeld 500W, Krypton/Xenon, 80750-031  |
| <b>ACTIVE BEAUTY</b>  |                  |   |
| 1                     | LL1690           | Active Beauty Softlight   |
| <b>ADRON</b>          |                  |   |
| 1                     | LLQJK96          | Adron AYS45   |
| <b>ADVANCED LASER</b> |                  |   |
| 1                     | LL4462S          | Lee Laser Model 712   |
| <b>AESCULAP</b>       |                  |   |
| 1                     | LL776            | Aesculap Laser Model Vision   |
| 2                     | LLX83            | Aesculap - Meditec MCL 29 - Dermablade Er-YAG   |
| <b>ALCON LASER</b>    |                  |   |
| 1                     | LL354            | Alcon Surgical model 532 (354-U-031883)   |
| <b>ALLIED/APOLLO</b>  |                  |   |
| 1                     | LL6063           | ALLied Laser 1610, Krypton, YAG   |
| 2                     | LL4678           | ALLied Laser 1610, Xenon, ALEXANDRITE   |

| NUMBER                                   | ITEM PART NUMBER | LASER RAIL  |
|--|------------------|---|
| <b>ALLTEC</b>                            |                  |   |
| 1  | LL5112           | ALLtec LN30W  |
| 2  | LL5113           | ALLtec LNI00W   |
| <b>ALPHA LASER GmbH</b>                  |                  |   |
| 1  | LLJK237          | Alpha Laser ALS35 (Old Model)                                   |
| 2  | LLJK574          | Siro Laser ALC35, ALO35, ALS35, (New Model)                     |
| 3  | LLK394           | Siro Laser ALS35S, SL50, SL75, AL75, AL100, ALVI00,             |
| 4  | LLAL200          | Alphalaser AL200, 660M130229, 501-0517A                         |
| <b>AMADA</b>                             |                  |   |
| 1  | LL2680           | Amada Pulsed System   |
| <b>AMERICAN LASER</b>                    |                  |   |
| 1  | LL9862-700       | American Laser I.PL.  |
| 2  | LL9862-450       | American Laser I.PL.  |
| <b>APPLIED PHOTOPHYSICS</b>              |                  |   |
| 1  | LLXA108          | Applied Laser LR1   |
| 2  | LLXA109          | Applied Laser LR16  |
| <b>APOLLO</b>                            |                  |   |
| 1  | LLH2300          | Helical Flashlamp for Laser Ruby Rod 3/4" x 3"                  |
| 2  | LLH2600          | Helical Flashlamp for Laser Ruby Rod 3/4" x 6", ApoLlo Model 35 |
| 3  | LLH2800          | Helical Flashlamp for Laser Ruby Rod 1" x 8"                    |
| 4  | LLH2900          | Helical Flashlamp for Laser Ruby Rod 1 3/4" x 4"                |
| <b>ARCOTRONICS</b>                       |                  |   |
| 1  | LLXF3            | B.O.C. Laser Model 203  |
| <b>ARGES</b>                             |                  |   |
| 1  | LL1260           | Arges   |
| 2  | LL4502           | Arges F450-2  |
| <b>AUREL</b>                             |                  |   |
| 1  | LL512AS          | Aurel NAVS2   |
| <b>BAASEL LASERTECHNIK (ROFIN GROUP)</b> |                  |   |
| 1  | LL512AS          | Baasel 600, 80750-005, 131100029                                |
| 2  | LL601S           | Baasel 601, 80750-006, 13110003                                 |

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| NUMBER | ITEM PART NUMBER | LASER RAIL  |
|--------|------------------|---|
| 3      | LLI66            | Baasel 200I, 6000, StarMark SM65, 80750-009, 131100032, 131100054, 80750-045, 202-08891 |
| 4      | LL209            | Baasel 200I, 6000, StarMark SM90, 80750-008, 131100031                                  |
| 5      | LL700            | Baasel StarMark SM150, 80750-029, 131100046   |
| 6      | LLXF889          | Baasel StarCut 10, 400I, BLS27, BLS701, BLS710, BLS720, 80750-026, 131100043, 80750-012 |
| 7      | LL9600           | Baasel StarWeld Performance, 80750-012, 1311000035                                      |
| 8      | LL9615           | Baasel StarWeld Performance, 80750-027, 131100044                                       |
| 9      | LL2412           | Baasel StarWeld Tool 100W, 80750-043, 131100052   |
| 10     | LLJK37           | Baasel StarWeld 150W, BLS730, 80750-01  |
| 11     | LL9674           | Baasel StarWeld 250W, 80750-028, 131100132  |
| 12     | LLI122           | Baasel StarWeld 500W, Xenon   |
| 13     | LLI123           | Baasel StarWeld 500W, Krypton/Xenon, 80750-031  |
| 14     | LL601LL          | Baasel 60I, 80750-006, 13110003   |
| 15     | LLX924           | Baasel Superb XL Er YAG   |

## BAUBLYS CONTROL LASER

|   |        |                             |
|---|--------|-----------------------------|
| 1 | LLI313 | Baublys PCBL4-3, BL150 150W |
| 2 | LLS27  | Baublys BL65, 65W           |
| 3 | LL5129 | Baublys BI00, 100W          |

## BEKO

|   |        |                             |
|---|--------|-----------------------------|
| 1 | LLI448 | Beko WL-40 Laserstar, Xenon |
|---|--------|-----------------------------|

## BENTZY LASER SERVICES

|   |       |   |
|---|-------|---|
| 1 | LL749 | Bentzy Multitasking Diamond processing system |
|---|-------|---|

## BIG SKY

|   |        |                              |
|---|--------|------------------------------|
| 1 | LL8142 | Big Sky Part number 03665515 |
|---|--------|------------------------------|

## BIOPHARM

|   |      |                   |
|---|------|-------------------|
| 1 | LL26 | Biopharm IPL lamp |
|---|------|-------------------|

## BIOS

|   |        |            |
|---|--------|------------|
| 1 | LLI500 | BIOS I.PL. |
| 2 | LLI309 | BIOS I.PL. |



| NUMBER               | ITEM PART NUMBER | LASER RAIL  |
|----------------------|------------------|---|
| <b>BLUESHINE</b>     |                  |   |
| 1                    | LL1500           | Blueshine I.P.L.  |
| 2                    | LL920            | Blueshine LDP-920   |
| <b>BMI</b>           |                  |   |
| 1                    | LL1788           | BMI Laser Model LK741 5011  |
| 2                    | LL164            | BMI Lamp Part Number LK535  |
| <b>BOC</b>           |                  |   |
| 1                    | LL201            | BOC Laser 201   |
| 2                    | LL561            | BOC Laser 101, 102  |
| 3                    | LLXF3            | BOC Laser 203   |
| <b>CANDELA LASER</b> |                  |   |
| 1                    | LL5233           | Candela lamp part number 05-CAN-12-5                                |
| 2                    | LL4665           | Candela lamp part number 05-CAN-24-5                                |
| 3                    | LL5501           | Candela lamp part number 05-CAN-24-7                                |
| 4                    | LL8511           | Candela laser model Gentlelase 9908-02-0408                         |
| <b>CHEVAL LASERS</b> |                  |   |
| 1                    | LLK329           | Cheval 400W laser, 24600L   |
| 2                    | LLJK310          | Cheval M-L 005  |
| <b>CHICAGO LASER</b> |                  |   |
| 1                    | LL510S           | Chicago Laser CLS51   |
| 2                    | LL512AS          | Chicago Laser CLS512, CLS37S  |
| 3                    | LL4522S          | Chicago Laser CLS 52  |
| 4                    | LL708S           | Chicago Laser CLS37W, CLS39, CLS977, CLS 907, CLS960, Lee Laser 708 |
| 5                    | LL4462S          | Chicago Laser CLS37W, CLS39, CLS977, CLS907, CLS960, Lee Laser 708  |
| <b>CHROMATIX</b>     |                  |   |
| 1                    | LLXF4            | Chromatix Laser CMX4  |
| <b>CHROMATRON</b>    |                  |   |
| 1                    | LL747            | Chromatron Laser Model Induwrite                                    |
| 2                    | LL767            | Chromatron Laser Model Induwrite 2                                  |
| <b>CHUTIAN</b>       |                  |   |
| 1                    | LL2840           | Chutian CTL 4X100KFC  |
| 2                    | LL2770           | Chutian CTL 5X125KFC  |

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For Lamp Pumped Laser Systems

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| NUMBER | ITEM PART NUMBER | LASER RAIL           |
|--------|------------------|----------------------|
| 3      | LL2780           | Chutian CTL 6X100KFC |
| 4      | LL2790           | Chutian CTL 6X140KFC |

## CLARK-MXR

|   |        |                           |
|---|--------|---------------------------|
| 1 | LL520B | Clark Laser Model ORC-100 |
|---|--------|---------------------------|

## CLEAN LASER

|   |        |                           |
|---|--------|---------------------------|
| 1 | LL166  | Clean Laser Model CWQ2015 |
| 2 | LL209  | Clean Laser Model CWQ204  |
| 3 | LL2045 | Clean laser Model CWQ2045 |

## COHERENT/COHERENT MEDICAL

|    |        |  |
|----|--------|--|
| 1  | LL7668 | Coherent Omega 34, Krypton                                 |
| 2  | LL6054 | Coherent Omega 34, Xenon                                   |
| 3  | LL7104 | Coherent 790   |
| 4  | LL4533 | Coherent Antares   |
| 5  | LL4669 | Coherent Everpulse II & I4, Hufmann Ind. 0513-002-01       |
| 6  | LLM14  | Coherent M14   |
| 7  | LLFDB  | Coherent Model 6   |
| 8  | LL8588 | Coherent Infinity  |
| 9  | LL7734 | Coherent Versapulse Medical, 0619-450-01, Ultrafine Er:YAG |
| 10 | LL8114 | Coherent Medical   |
| 11 | LL7903 | Coherent Medical   |

## CONTINUUM

|    |        |  |
|----|--------|--|
| 1  | LL5260 | Continuum 203-0007   |
| 2  | LL5960 | Continuum FL408, 203-0022                                    |
| 3  | LL5961 | Continuum YG481, FL410, 203-0023                             |
| 4  | LL5962 | Continuum FL406-04, 203-0001                                 |
| 5  | LL6064 | Continuum FL-312 Ruby, 203-0026                              |
| 6  | LL7045 | Continuum Minilite I, Minilite II, 1998 onwards, 203-0039    |
| 7  | LL7047 | Continuum 203-0041, MiniLite I, Minilite II                  |
| 8  | LL8007 | Continuum PC700-10, TO3-008                                  |
| 9  | LL6213 | Continuum FL611-09, PY61C-10 (Amplifier), PY61C-20, 203-0018 |
| 10 | LL6358 | Continuum FL-315-09, 203-0009                                |
| 11 | LL6379 | Continuum 203-0027   |
| 12 | LL6497 | Continuum FL310G, 203-0011                                   |
| 13 | LL6802 | Continuum SFL312R  |
| 14 | LL7383 | Continuum FL-312-Glass, 203-0024                             |

| NUMBER | ITEM PART NUMBER | LASER RAIL   |
|--------|------------------|--|
| 15     | LL7716           | Continuum Surelite II, Powerlite 7010, 7020, 7030, 8010 (osciLLator), 203-0035   |
| 16     | LL7886           | Continuum Powerlite 9000 Series Amplifier, Medilite Amplifier, 203-0036  |
| 17     | LL8044           | Continuum FL611-07, YG571C, YG580, 203-0012  |
| 18     | LL8045           | Continuum FL611-06, YG660, YG682, Powerlite 6000, 7000, 8000 and 9000 series (osciLLator), Powerlite plus, Surelite I, Medilite, PY61C-10 203-0019 |
| 19     | LL8046           | Continuum FL506-04, PY61-10, 203-0017  |
| 20     | LL8047           | Continuum Surelight III, Powerlite 8000 series Amplifier, powerlite 9050 Amplifier, Powerlite plus Amplifier, Medilite IV 203-0032                 |
| 21     | LL7039           | Continuum Minilite 10, 20, early models, 203-0037  |
| 22     | LL8595           | Continuum model 203-9001   |

### CONTROL LASER

|    |         |  |
|----|---------|--|
| 1  | LL510S  | Control Laser 255, 256, 510, 511   |
| 2  | LL512AS | Control Laser 512, 513, Instamark, Script                                    |
| 3  | LL512BS | Control Laser Instamark, Script, Emblem                                      |
| 4  | LL520S  | Control Laser 258, 520, H-518, 62  |
| 5  | LL4522S | Control Laser 520, Extended arc length                                       |
| 6  | LL532S  | Control Laser 531, 532, 534, 536, 63   |
| 7  | LL612S  | Control Laser 612, Elite, Signature, Emblem                                  |
| 8  | LL5461  | Control Laser 612, Special Voltage 150 -170V lamp                            |
| 9  | LL400S  | Control Laser 400, 428, 438, 440-8, 480-16, Huffman, XMR, (Arc Length 101mm) |
| 10 | LL987   | Control laser 612, Special 30A 131-138 Volts                                 |
| 11 | LL400L  | Control Laser 400, 428, 438, 440-8, 480-16; Huffman, XMR, (Arc Length 117mm) |
| 12 | LL6645  | Control Laser 512 PLUS, Signature 100, Script 10                             |
| 13 | LL5116  | Control Laser, Insignia, Icon  |
| 14 | LL264   | Control Laser, 258, 520, 620, High stability (30A 117-127V)                  |
| 15 | LL1019  | Control Laser, Insignia, Icon, High Stability (15A 165-175V)                 |

### CONVERGENT ENERGY

|   |        |                               |
|---|--------|-------------------------------|
| 1 | LL1873 | Convergent Energy Aurora P-10 |
| 2 | LL1525 | Convergent Energy Aurora P-50 |

### COOPER LASERONICS/MOLECTRON

|   |        |                         |
|---|--------|-------------------------|
| 1 | LL536  | Cooper 8000, 8900, 2500 |
| 2 | LL534  | Cooper 4000, 600        |
| 3 | LL3409 | Cooper MY32             |
| 4 | LL3410 | Cooper MY34, MY35       |

### CRAFFORD PRECISION PRODUCTS

|   |        |   |
|---|--------|---|
| 1 | LL8624 | CPP Laserstar, 405-2460-405               |
| 2 | LL8623 | CPP Laserstar Hi Performance 405-2460-406 |

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| NUMBER                        | ITEM PART NUMBER | LASER RAIL  |
|-------------------------------|------------------|---|
| <b>CVI LASER</b>              |                  |   |
| 1                             | LLJG             | CVI YAG MAX C95   |
| 2                             | LL502            | CVI YAG MAX 21  |
| 3                             | LL4461           | CVI YAG MAX 212   |
| <b>CYNOSURE</b>               |                  |   |
| 1                             | LL9551           | Cynosure, Apogee  |
| 2                             | LL9856           | Cynosure, LPIR, LCY-7043  |
| 3                             | LL1158           | Cynosure, Photogenica dye lamp                                      |
| 4                             | LL1612           | Cynosure, Photogenica T10 Alexandrite lamp                          |
| <b>DARK SUN</b>               |                  |   |
| 1                             | LL1380           | Dark Sun, Smartpulse  |
| <b>DDD</b>                    |                  |   |
| 1                             | LL1062           | DDD ELLipse   |
| <b>DEK</b>                    |                  |   |
| 1                             | LLS26            | DEK Laser Trimmer, Spectron SL501Q, SL501TQ                         |
| <b>DORNIER</b>                |                  |   |
| 1                             | LLQCW187         | Dornier B 3003687   |
| <b>EKSMA</b>                  |                  |   |
| 1                             | LL7077           | Eksma Laser Model PL 2143B, 45mm arc length lamp                    |
| 2                             | LL7074           | Eksma Laser Model PL 2143B, 58mm arc length lamp                    |
| 3                             | LL7054           | Eksma Laser Model PL 2143B, 75mm arc length lamp                    |
| <b>ELECTRONICA VALSERIANA</b> |                  |   |
| 1                             | LLK509           | Electronica Valseriana Lamp part number 022500038, Softlight, EV500 |
| 2                             | LL5008           | Electronica Valseriana CW Lamp                                      |

| NUMBER                | ITEM PART NUMBER | LASER RAIL   |
|-----------------------|------------------|--|
| <b>ELECTROX</b>       |                  |  |
| 1                     | LL908            | Electrox Raymarker I, 262-000-01                       |
| 2                     | LL786            | Electrox Scriba I and II, 85W with end plugs New model |
| 3                     | LL484            | Electrox Scriba I and II, 120W (upgrade)               |
| <b>ENERGIS</b>        |                  |  |
| 1                     | LL1062           | Energis IPL Elite Ultra                                |
| <b>E.S.I.</b>         |                  |  |
| 1                     | LL510S           | E.S.I. 25, 44  |
| 2                     | LL512AS          | E.S.I. 44  |
| 3                     | LL570S           | E.S.I. 44, 80, 4000A, 4200, 3570, 3572, 5100, 5150     |
| 4                     | LL520S           | E.S.I. 44  |
| 5                     | LL65             | E.S.I. Japan   |
| <b>EQUINOX</b>        |                  |  |
| 1                     | LL1062           | Equinox, Light Touch IPL                               |
| <b>ESTELUX</b>        |                  |  |
| 1                     | LL1062           | Estelux IPL, LUX Y                                     |
| <b>EU PHOTONICS</b>   |                  |  |
| 1                     | LL7031           | Eu Photonics, N-Lite                                   |
| 2                     | LL9000           | Eu Photonics, Chromogenix I.PL.                        |
| <b>EXCEL PHOTONIX</b> |                  |  |
| 1                     | LL1062           | Excel Photonix IPL                                     |
| 2                     | LL7031           | Excel Photonix Pulsar                                  |
| <b>FANUC</b>          |                  |  |
| 1                     | LL272            | Fanuc 500W CW Laser                                    |
| 2                     | LLYP500B         | Fanuc YP500 Laser, 500W Pulsed laser, A49L-0001-0064   |
| <b>FERRANTI</b>       |                  |  |
| 1                     | LLXF35           | Ferranti Die DriLLer 61 I, 65I                         |
| <b>FLOROD</b>         |                  |  |
| 1                     | LL512AS          | Florod 40, 41, 42, 70, Control Laser 512               |
| 2                     | LL4182           | Florod LRY, LWY  |
| 3                     | LL6473           | Florod LCM3  |

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For Lamp Pumped Laser Systems

Intelligent Solutions, Manufacturing & Development

| NUMBER                  | ITEM PART NUMBER      | LASER RAIL   |
|-------------------------|-----------------------|--|
| <b>FOBA</b>             |                       |  |
| 1                       | LL5112                | Fobalas 84S, 30 Watt                                 |
| 2                       | LL5113                | Fobalas 90 MK-DT, 94S, 100 Watt                      |
| 3                       | LL258                 | Fobalas 114S, 200 Watt                               |
| <b>FOTONA</b>           |                       |  |
| 1                       | LLS27                 | Fotona YAG-22  |
| 2                       | LL1852 (LONG LIFE)    | Fotona YAG-22  |
| 3                       | LL2007                | Fotona WL-40 Spotlight, Krypton                      |
| 4                       | LL1448                | Fotona WL-40, Laserstar, Xenon                       |
| 5                       | LL7060                | Fotona Fidelis, 1 Joule Er:YAG                       |
| 6                       | LL2284                | Fotona Fidelis M002A                                 |
| 7                       | LLXF1141              | Fotona Fidelis M320A                                 |
| <b>FOX LASERS</b>       |                       |  |
| 1                       | LL114                 | Fox 7400, Quantronix 114                             |
| <b>FUJI</b>             |                       |  |
| 1                       | LL5025                | Fuji 100W Laser Marker                               |
| 2                       | LL365                 | Fuji 50W Laser Marker                                |
| <b>GENERAL SCANNING</b> |                       |  |
| 1                       | LL9300                | General Scanning Hi-Mark 400, 800, 1400, 6000 600hrs |
| 2                       | LL8090 LL (LONG LIFE) | General Scanning Hi-Mark 400, 800, 1400, 6000 800hrs |
| 3                       | LL93                  | General Scanning Hi-Mark 400, 800, 1400, 6000 400hrs |
| <b>GREENTON</b>         |                       |  |
| 1                       | LL1062                | Greenton IPL   |
| <b>GRETAG</b>           |                       |  |
| 1                       | LLS27                 | Gretag 6210, 6211                                    |
| 2                       | LL1852 (LONG LIFE)    | Gretag 6210, 6211                                    |

| NUMBER                     | ITEM PART NUMBER     | LASER RAIL  |
|----------------------------|----------------------|---|
| <b>GSI LUMONICS</b>        |                      |   |
| 1                          | LLJKI                | JK MS800, MS330, MS820, MS830LD, 12280090A  |
| 2                          | LLJK26               | JK 700, 701, 702, 706, 12280180A, P55B6770B   |
| 3                          | LLXF69               | JK 704, 12280200A, P55F3830B  |
| 4                          | LLQXF54              | JK 2000, HY750, MS25, HY200, HY450, 12280070A   |
| 5                          | LLXF63               | JK MS20, MS35, YM-800 12280020A   |
| 6                          | LLXF65               | JK 2000, HL52, GSG1/6, Derma Ruby Laser, 12280030A  |
| 7                          | LLXF2                | JK MS10, 12280050A  |
| 8                          | LLJK23               | JK MS300, 12280060A   |
| 9                          | LL5913               | JK MS810, 12280100A   |
| 10                         | LL259                | Lumonics Multiwave, AM356, P55V4830B  |
| 11                         | LL9153               | Lumonics Luxstar LXTR50, P61R4980X, 12280250A, 50W laser  |
| 12                         | LLX634               | Lumonics Luxstar LXTR30, P61Y6980X, 30W laser   |
| 13                         | LLJK214              | Lumonics ScreenCut P55Y4051B  |
| 14                         | LL9300               | Lumonics HM series  |
| 15                         | LLI010               | Lumonics ScreenCut 4000, ScreenCut 5000, F410-4   |
| 16                         | LLI16LL              | Lumonics Lightwriter (long life 400 hrs)  |
| 17                         | LLI16LLS             | Lumonics Lightwriter 217.020.00, (extra long life 600 hrs)  |
| 18                         | LL9300               | Lumonics Hi-Mark 400, 800, 1400, 6000 600 hrs   |
| 19                         | LL8090LL (LONG LIFE) | Lumonics Hi-Mark 400, 800, 1400, 6000 800 hrs   |
| 20                         | LL93                 | Lumonics Hi-Mark 400, 800, 1400, 6000 400hrs  |
| <b>GTE</b>                 |                      |   |
| 1                          | LLEJG                | GTE606  |
| <b>HASS LASER</b>          |                      |   |
| 1                          | LLS27                | Haas VectorMark   |
| 2                          | LLI852 (Long Life)   | Haas VectorMark   |
| 3                          | LL2000               | Haas HL353D, HL556D, HL703D, HLI003D, HLI006D, HLI504D, HL2006D, HL3006D, HL4006D, 759082, 01-04-23-00 (Standard Version) |
| 4                          | LLI000LL             | Haas HL353D, HL506D, HL703D, HLI003D, HLI006D, HLI504D, HL2006D, HL3006D, HL4006D, 1252860, 01-04-34-0                    |
| 5                          | LL260                | Haas HLI24P, HL42P, HL204P, 01-04-22-0, 760512  |
| 6                          | LL506                | Haas HL506P, 01-04-27-00, 773787  |
| 7                          | LL304                | Haas HL304P   |
| <b>HAHN &amp; KOLB</b>     |                      |   |
| 1                          | LLS27                | Hahn & Kolb Enigma  |
| 2                          | LLI852 (LONG LIFE)   | Hahn & Kolb Enigma  |
| <b>HERAEUS LASERSONICS</b> |                      |   |
| 1                          | LL536                | Heraeus 8000, 8900, 2500  |
| 2                          | LL534                | Heraeus 4000, 6000, LUXUS10   |

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| NUMBER | ITEM PART NUMBER | LASER RAIL                                  |
|--------|------------------|---|
| 3      | LL3409           | Heraeus MY32                                |
| 4      | LL3410           | Heraeus MY34, MY35                          |
| 5      | LL5045           | Heraeus Lasersonics Hercules 5060           |
| 6      | LL5087           | Heraeus Lasersonics Hercules 5100, 5000-100 |
| 7      | LL5022           | Heraeus Lasersonics Hercules 5040           |

## HK TECHNOLOGIES

|   |                    |                    |
|---|--------------------|--------------------|
| 1 | LLS27              | Hahn & Kolb Enigma |
| 2 | LLI852 (LONG LIFE) | Hahn & Kolb Enigma |

## HOBART

|   |       |                          |
|---|-------|--------------------------|
| 1 | LL604 | Hobart Model 3750-0007-0 |
|---|-------|--------------------------|

## HOLOBEAM

|    |          |  |
|----|----------|--|
| 1  | LL510S   | Holobeam 255, 256  |
| 2  | LL520S   | Holobeam 257, 258  |
| 3  | LL532S   | Holobeam 2660  |
| 4  | LLH3300  | Helical flashlamp for Holobeam Ruby 3/8" x 3" Rod          |
| 5  | LLH3370  | Helical flashlamp for Holobeam Ruby 1/2" x 3" Rod          |
| 6  | LLH3600  | Helical flashlamp for Holobeam Ruby 3/8" x 6" Rod          |
| 7  | LLH3620  | Helical flashlamp for Holobeam Ruby 1/2" x 6" Rod          |
| 8  | LLH3860  | Helical flashlamp for Holobeam Ruby 3/4" x 6" Rod          |
| 9  | LLH3800  | Helical flashlamp for Holobeam Ruby 3/4 x 8" Rod           |
| 10 | LLH3300S | Suprasil Helical flashlamp for Holobeam Ruby 3/8" x 3" Rod |
| 11 | LLH3600S | Suprasil Helical flashlamp for Holobeam Ruby 3/8" x 6" Rod |
| 12 | LLH3620S | Suprasil Helical flashlamp for Holobeam Ruby 1/2" x 6" Rod |
| 13 | LLH3800S | Suprasil Helical flashlamp for Holobeam Ruby 3/4" x 8" Rod |

## HONG LUNG

|   |         |             |
|---|---------|-------------|
| 1 | LL512BS | Control 512 |
|---|---------|-------------|

## HUFMANN INDUSTRIES

|   |        |                          |
|---|--------|--------------------------|
| 1 | LL4669 | Hufmann Ind. 0513-002-01 |
|---|--------|--------------------------|

## HOYA

|   |        |   |
|---|--------|---|
| 1 | LL4517 | Hoya lamp part number 3.5 X AMG, L/2.11/G |
| 2 | LL7045 | Hoya laser model HCL-210                  |
| 3 | LL7047 | Hoya laser model HCL-2100F                |



| NUMBER          | ITEM PART NUMBER   | LASER RAIL  |
|-----------------|--------------------|---|
| <b>HYSOL</b>    |                    |   |
| 1               | LLQCWI35           | Hysol HM100, 100 watt                               |
| 2               | LL5048             | Hysol HM100, HDU652                                 |
| <b>ILM</b>      |                    |   |
| 1               | LL908              | ILM/Electrox Raymarker I                            |
| <b>IMPAQ</b>    |                    |   |
| 1               | LL166              | Impaq laser model CWQ2025                           |
| 2               | LL209              | Impaq laser model CWQ2040                           |
| 3               | LL2045             | Impaq laser model CWQ2045                           |
| <b>INLASER</b>  |                    |   |
| 1               | LLJK386            | InLaser LWD4 9 LWD4V                                |
| <b>INNOLAS</b>  |                    |   |
| 1               | LLS27              | Innolas Model 1000, 2000, Enigma                    |
| 2               | LL1852 (LONG LIFE) | Innolas Model 1000, 2000, Enigma                    |
| 3               | LL9155             | Innolas 701, 702                                    |
| <b>ISKRA</b>    |                    |   |
| 1               | LLS27              | Iskra YAG-22  |
| 2               | LL1852 (LONG LIFE) | Iskra YAG-22  |
| 3               | LL4190             | Iskra Models UPLAS 502, YAG 20, YAG 21, QT/E8WR     |
| <b>JEC</b>      |                    |   |
| 1               | LL510S             | JEC 1020, 1028                                      |
| 2               | LL512AS            | JEC 1024  |
| <b>JK LASER</b> |                    |   |
| 1               | LLJK1              | JK MS800, MS330, MS820, MS830LD, 12280090A          |
| 2               | LLJK26             | JK 700, 701, 702, 706, 12280180A, P55B6770B         |
| 3               | LLXF69             | JK 704, 12280200A, P55F3830B                        |
| 4               | LLQXF54            | JK 2000, HY750, MS25, HY200, HY450, 12280070A       |
| 5               | LLXF63             | JK MS20, MS35, YM-800 12280020A                     |
| 6               | LLXF65             | JK 2000, HL52, GSG I/6, Derma Ruby Laser, 12280030A |
| 7               | LLXF2              | JK MS10, 12280050A                                  |
| 8               | LLJK23             | JK MS300, 12280060A                                 |
| 9               | LL5913             | JK MS810, 12280100A                                 |

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| NUMBER | ITEM PART NUMBER | LASER RAIL |
|--------|------------------|------------|
|--------|------------------|------------|

## KMS FUSION

|   |        |                                  |
|---|--------|----------------------------------|
| 1 | LL3457 | KMS-Fusion Pulsed Laser, Krypton |
|---|--------|----------------------------------|

## KOMATSU

|   |          |                        |
|---|----------|------------------------|
| 1 | LLQCW108 | Komatsu Q120W, PH15L-1 |
| 2 | LL517    | Komatsu Q150W          |

## KORAD

|   |         |                                 |
|---|---------|---------------------------------|
| 1 | LLKY3   | Korad KY3                       |
| 2 | LLKY5   | Korad KY5                       |
| 3 | LLH6000 | Helical flashlamp for Korad K-1 |
| 4 | LLH6020 | Helical flashlamp for Korad K-2 |
| 5 | LLH6050 | Helical flashlamp for Korad K-5 |
| 6 | LLH6060 | Helical flashlamp for Korad K-6 |

## LASAG

|    |        |   |
|----|--------|---|
| 1  | LL1767 | Lasag KLS246-040FC, 64-0153   |
| 2  | LL5006 | Lasag LAK101, KLS111, LAK100, KLS016, Topaz, 64-0156, 64-0302       |
| 3  | LL6638 | Lasag LAK101, KLS111, LAK100, KLS016, 64-0158, 64-0371              |
| 4  | LL4605 | Lasag LAK101, KLS111, LAK100, KLS016, 64-0114, 64-0116              |
| 5  | LL5007 | Lasag LAK301-302, KLS321-322, LAK400-401, 64-0157, 64-0324, Krypton |
| 6  | LL5009 | Lasag LAK301-302, KLS321-322, LAK400-401, 64-0159, 64-0372, Xenon   |
| 7  | LL6073 | Lasag LAK601, LAK501-502, KLS521-522, 64-0309                       |
| 8  | LL1807 | Lasag LAK601, LAK501-502, KLS521-522, KLS 24E, LAK542-300, 64-0551  |
| 9  | LL5010 | Lasag LAK101-102, KLS111-112, KLS126, 64-0154, 64-0323              |
| 10 | LL1798 | Lasag LAK101, KLS111, LAK100, KLS016, Topaz, 64-0579                |
| 11 | LL9405 | Lasag, 64-0552  |
| 12 | LL1927 | Lasag, 64.0553  |
| 13 | LL1800 | Lasag Slab FM 015, 64.0649  |

## LASER APPLICATIONS – FRANCE

|   |        |   |
|---|--------|---|
| 1 | LL6461 | Laser Applications Model LAP988 (Upgrade) |
|---|--------|---|

## LASER APPLICATION/LASERMETRICS

|   |         |                                      |
|---|---------|--------------------------------------|
| 1 | LL4191S | Laser Application 9560, 28 Amp       |
| 2 | LL550S  | Laser Application 9560, 9555, 40 Amp |
| 3 | LL5845  | Laser Application 9510               |

| NUMBER                              | ITEM PART NUMBER | LASER RAIL                                      |
|-------------------------------------|------------------|---|
| 4                                   | LL8205           | Laser Application 9515                          |
| 5                                   | LL400L           | Laser Applications 94100 (Arc Length 117mm)     |
| 6                                   | LL400S           | Laser Applications 94100 (Arc Length 101mm)     |
| <b>LASER ASSOCIATES</b>             |                  |   |
| 1                                   | LL560            | Laser Associates 254B                           |
| 2                                   | LLX11            | Laser Associates 252C                           |
| 3                                   | LLSPACERAY       | Laser Associates 211A Ruby Laser                |
| <b>L.B.T.</b>                       |                  |   |
| 1                                   | LL341            | L.B.T Model MYLS6                               |
| 2                                   | LLQCW419         | L.B.T Model MYLS100                             |
| <b>LASER DESIGN</b>                 |                  |   |
| 1                                   | LLQCWI89         | Laser Design PE.I. SLEEVES                      |
| 2                                   | LLQCWI89Q        | Laser Design, Ceramic Sleeves                   |
| <b>LASER IDENTIFICATION SYSTEMS</b> |                  |   |
| 1                                   | LLI16LL          | LIS Wafer Mark 345, II (long life 400 hrs)      |
| 2                                   | LLI16LLS         | LIS Wafer Mark 345, II (extralong life 600 hrs) |
| <b>LASER INDUSTRIES – USA</b>       |                  |   |
| 1                                   | LLSPACERAY       | Laser Industries Spaceray                       |
| <b>LASER INDUSTRIES</b>             |                  |   |
| 1                                   | LL95             | Toshiba LAY618, 652, Sharplan 2100, 3000        |
| <b>LASER INNOVATIONS</b>            |                  |   |
| 1                                   | LLQCW336         | Laser Innovations Emerald                       |
| <b>LASER ITALIA</b>                 |                  |   |
| 1                                   | LL9650           | Laservall Compac                                |
| <b>LASER OPTRONICS</b>              |                  |   |
| 1                                   | LL747            | Laser Optronic 747, 757                         |
| 2                                   | LL767            | Laser Optronic 767                              |
| 3                                   | LL804            | Laser Optronic 777                              |
| <b>LASERSCOPE</b>                   |                  |   |
| 1                                   | LL520BC          | Laserscope 804, 102, LSY, BL3, CL20YAG, Aura    |
| 2                                   | LL241            | Laserscope KTP/YAG 800                          |
| 3                                   | LL8280           | Laserscope Lyra, lamp part number 0124-0350     |

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| NUMBER | ITEM PART NUMBER | LASER RAIL                            |
|--------|------------------|---------------------------------------|
| 4      | LL321            | Laserscope lamp part number 0113-2260 |
| 5      | LL520S           | Laserscope infinity                   |
| 6      | LL5001           | Laserscope Erbium Venus               |

## LASIT

|   |          |                                    |
|---|----------|------------------------------------|
| 1 | LL218S   | Lasit Fleximark, Easymark 80 Watt  |
| 2 | LLQCW336 | Lasit Fleximark, Easymark 120 Watt |

## LASITRON

|   |          |                        |
|---|----------|------------------------|
| 1 | LLQCW189 | Lasitron MLI 36, 100 W |
| 2 | LLQCW39  | Lasitron MLI 20, 60 W  |

## LASERVALL

|   |        |   |
|---|--------|---|
| 1 | LL479  | Laserva LL Va LL mark 7, 8, 10, 11              |
| 2 | LLK372 | Laserva LL JLI 5                                |
| 3 | LLPL50 | Laserva LL PL50, PL75, PL100, JL30, Cyberwelder |
| 4 | LL295  | LaservaLL IPL unit                              |

## LEE LASER

|   |         |  |
|---|---------|--|
| 1 | LL708S  | Lee Laser 708, 808, 750, LKA302                      |
| 2 | LL4462S | Lee Laser 708, 712, 808, 812, LKA333                 |
| 3 | LL9300  | Lee Laser 715, 718, 818, 815, 825, LKA4030 (600 hrs) |
| 4 | LL93    | Lee Laser 715, 718, 818, 815, 825, LKA4030 (400 hrs) |
| 5 | LL5206  | Lee Laser, LKA534                                    |
| 6 | LL1689  | Lee Laser LKF-65                                     |
| 7 | LL6914  | Lee Laser 703, LKA202                                |
| 8 | LL5028  | Lee Laser Diamond processing lasers                  |

## LIGHTAGE

|   |        |                            |
|---|--------|----------------------------|
| 1 | LL6790 | Lightage Alexandrite laser |
|---|--------|----------------------------|

## LITRON LASER

|   |        |                                 |
|---|--------|---------------------------------|
| 1 | LLI230 | Litron Pulsed System 5 x 51 XFP |
| 2 | LLI240 | Litron Pulsed System 5 x 57 XFP |
| 3 | LL8600 | Litron Pulsed System 5 x 52 XFP |

| NUMBER                  | ITEM PART NUMBER | LASER RAIL   |
|-------------------------|------------------|--|
| <b>LPKF</b>             |                  |  |
| 1                       | LLXF889          | Baasel Laser Starcut I8, SC18, 4001, BLS27             |
| 2                       | LL2007           | LPKF Stencil Cutting Laser SL25, SL60                  |
| <b>LS LASER SYSTEMS</b> |                  |  |
| 1                       | LL767            | MLS 035  |
| 2                       | LL7544           | MLS 500 watt slab Model FBS50                          |
| 3                       | LLQCW360         | MLS 100 watt   |
| 4                       | LL9651           | MLS KB50   |
| 5                       | LL6775           | MLS 300 watt slab laser model FBS300                   |
| <b>LUMENIS</b>          |                  |  |
| 1                       | LLX737           | Lumenis Derma K  |
| 2                       | LL8587           | Epi-Light Hair Removal Laser, Photoderm                |
| 3                       | LL95             | Toshiba LAY618, 652, Sharplan 2100, 3000               |
| 4                       | LL7112           | Sharplan 5100 Epitouch, High power                     |
| 5                       | LL2028           | Sharplan 5100 Alexandrite laser, Epitouch, New version |
| 6                       | LLXF390          | Sharplan 2000 Ruby                                     |
| 7                       | LL1311           | Sharplan 5000 Ruby                                     |
| 8                       | LL9860           | Lumenis D-Light  |
| <b>LUXSANO</b>          |                  |  |
| 1                       | LL7082           | MLS 035  |
| 2                       | LL7544           | MLS 500 watt slab Model FBS500                         |
| 3                       | LLQCW360         | MLS 100 watt   |
| <b>LYNTON MEDICAL</b>   |                  |  |
| 1                       | LL995            | Lynton Lumina IPL for Hair reduction Vascular Lesions  |
| 2                       | LL206            | Lynton Luminette                                       |
| <b>MARCRIST</b>         |                  |  |
| 1                       | LL5138           | Marcris Marking Laser                                  |
| <b>MBB MEDILAS</b>      |                  |  |
| 1                       | LL747            | Medilas I&2  |
| 2                       | LL51             | Medilas 4060-40  |
| 3                       | LLQCWI46         | Medilas 100N   |
| 4                       | LLQCWI87         | Medilas 4060 Fiberton                                  |

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|--------------------------------|------------------|---|
| <b>MBC NORSK</b>               |                  |   |
| 1                              | LL7082           | MBC Plasmalite 20mm Arc   |
| 2                              | LL7083           | MBC Plasmalite 18mm Arc   |
| 3                              | LL7084           | MBC Plasmalite 16mm Arc   |
| <b>MEDICAL BIOCARE</b>         |                  |   |
| 1                              | LL7082           | MBC Plasmalite 20mm Arc   |
| 2                              | LL7083           | MBC Plasmalite 18mm Arc   |
| 3                              | LL7084           | MBC Plasmalite 16mm Arc   |
| <b>MEDICOM</b>                 |                  |   |
| 1                              | LL1776           | Medicom LS-100  |
| <b>MED-OP</b>                  |                  |   |
| 21                             | LL404            | Med-OP Dermoflashc  |
| <b>MICRO-CONTROLE – FRANCE</b> |                  |   |
| 1                              | LL164            | Micro-Controle FLI 705C, Maria III  |
| <b>MICRON</b>                  |                  |   |
| 1                              | LLQCW39          | Lasitron 120  |
| <b>MIYACHI</b>                 |                  |   |
| 1                              | LL6755           | Miyachi ML2330, ML2100A, ML2200A, ML2331B, ML2332B, ML2333A, MLD-0603   |
| 2                              | LL9771           | Miyachi ML2350A, ML2351A, A-02914, MLD0603 with clips   |
| 3                              | LL7353           | Miyachi ML1330D   |
| 4                              | LL6847           | Miyachi ML2600B, ML2500A, ML2360A   |
| 5                              | LL910            | Miyachi ML4141A, ML4141B, MLD0406   |
| 6                              | LL8516           | Miyachi LW10/15, ML2030A, ML2030B, ML2130A, ML2050A, ML2150A, ML2051A, ML2052A, 13813, MLD-0608, MLD0902, MLD-061 |
| 7                              | LL8613           | Miyachi MLD-0861, ML2450A   |
| 8                              | LL9553           | Miyachi MLD-0602, ML2530A   |
| <b>M.L.S.</b>                  |                  |   |
| 1                              | LL767            | MLS 035, MLS 7032   |
| 2                              | LL7544           | MLS 500 watt slab laser model FBS500  |

| NUMBER                     | ITEM PART NUMBER   | LASER RAIL   |
|----------------------------|--------------------|--|
| 3                          | LLQCW360           | MLS 100 watt   |
| 4                          | LL9651             | MLS KB50   |
| 5                          | LL6775             | MLS 300 watt slab laser model FBS300                                 |
| <b>N.E.C.</b>              |                    |  |
| 1                          | LL545              | NEC SL114A, 114F, 114G, SL475H, SL5&5ZA, P2002D                      |
| 2                          | LL547              | NEC SL1150G, 1150H, 1150J, 1150K, 116A, 116B, SL475E, SL436G, P2008E |
| 3                          | LL546              | NEC SL115A, YL452  |
| 4                          | LL7003             | NEC SL117-2C, 3C, 4C   |
| 5                          | LLQXF337           | NEC SL476A2, P2015A  |
| 6                          | LL5416             | NEC P2013  |
| 7                          | LL3171             | NEC YL451, P2007   |
| 8                          | LLQXF345           | NEC SL124E, YL478IS, M801B,C, M802C, P2014, P2019                    |
| 9                          | LL292              | NEC P2021  |
| <b>NEW WAVE RESEARCH</b>   |                    |  |
| 1                          | LL6811             | Medilite I   |
| 2                          | LL7886             | Solo PIV 0002-0036, Tempest, Gemini                                  |
| <b>NIDEX</b>               |                    |  |
| 1                          | LLGYC1500          | Nidex laser model GYC1500  |
| <b>NIHON LASER SYSTEMS</b> |                    |  |
| 1                          | LLQJK302           | Nihon RC150YWF, LY-300   |
| <b>N.W.L.</b>              |                    |  |
| 1                          | LL1311             | NWL Meltemi, LSY BL8   |
| 2                          | LLXF390            | NWL Levante, Meltemi, LSY BL2  |
| 3                          | LLS27              | NWL Dali, Maestro, Mistral   |
| 4                          | LL1852 (LONG LIFE) | NWL Dali, Maestro, Mistral   |
| <b>OBARA LASER</b>         |                    |  |
| 1                          | LL1398             | Obara laser YPR-005062, 50 W   |
| <b>O.R. LASER</b>          |                    |  |
| 1                          | LL9654             | Solar 50 Watt  |
| 2                          | LL9656             | Solor 100 Watt   |
| <b>ORZIV</b>               |                    |  |
| 1                          | LL117LL            | Orziv 2001 400 hrs   |
| 2                          | LL5129             | Orziv Spectron Express, Spectron F950-4                              |

# LASER S.O.S. GROUP

TECHNOLOGY AND MARKET DRIVEN COMPANY!

# LASER LAMPS & I.P.L. LIGHT SOURCES

For Lamp Pumped Laser Systems

Intelligent Solutions, Manufacturing & Development

| NUMBER                | ITEM PART NUMBER | LASER RAIL  |
|-----------------------|------------------|---|
| 3                     | LL749            | Orziv 200I, 600 Hrs, 35 Amps Maximum                                    |
| 4                     | LL749A           | Orziv 200I, 600 Hrs, 40 Amps Maximum                                    |
| <b>OTARI</b>          |                  |   |
| 1                     | LL118            | Otari, 250W & 350W  |
| <b>PALOMAR</b>        |                  |   |
| 1                     | LL6962           | Palomar Spektrum Ruby   |
| 2                     | LL2306/8667      | Palomar IPL hair removal lamp   |
| <b>PHOTON ENERGY</b>  |                  |   |
| 1                     | LL209            | Photon Energy Draco 80 Watt   |
| 2                     | LL2045           | Photon Energy Draco 100Watt   |
| <b>PM INDUSTRIES</b>  |                  |   |
| 1                     | LL500            | PM 45, 200, 300   |
| <b>POLARIS</b>        |                  |   |
| 1                     | LLXF777          | Polaris Ruby  |
| 2                     | LL1165           | Polaris Ruby, Folded cavity   |
| <b>POSITIVE LIGHT</b> |                  |   |
| 1                     | LLQCW324         | Positive Light Merlin   |
| <b>QUANTA RAY</b>     |                  |   |
| 1                     | LLDCRI           | Quanta Ray DCRI   |
| 2                     | LL4539           | Quanta Ray DCR2, GCR Series, PRO 250-10, 350, INDI series, SP-0004-0725 |
| <b>QUANTA SYSTEMS</b> |                  |   |
| 1                     | LL2003           | Quanta QMI-120  |
| 2                     | LL135            | Quanta QMI-80   |
| 3                     | LL2226           | Quanta IPL systems  |
| 4                     | LLXF920          | Quanta SYL-200 Series   |
| <b>QUANTEL FRANCE</b> |                  |   |
| 1                     | LLYG581C         | Quantel YG581C  |
| 2                     | LLX557           | Quantel SFLBRI-06, Brilliant  |



| NUMBER | ITEM PART NUMBER | LASER RAIL          |
|--------|------------------|---------------------|
| 3      | LLQXA63          | Quantel Ruby FC-312 |
| 4      | LL6903           | Quantel IQL3        |
| 5      | LL8306           | Quantel E8-10B      |
| 6      | LL8045           | Quantel SFL-611-06  |

### QUANTUM LASER

|   |          |                                      |
|---|----------|--------------------------------------|
| 1 | LL218S   | Quantum laser maxi mark (80 Watt)    |
| 2 | LLQCW336 | Quantum Laser Maxi mark 2 (120 Watt) |

### QUANTRAD

|   |         |   |
|---|---------|---|
| 1 | LL510S  | Quantrad 1733                             |
| 2 | LL512AS | Quantrad 1969                             |
| 3 | LL550S  | Quantrad 9555, BLAZER 2000, COMET, GALAXY |

### QUANTRONIX

|   |          |  |
|---|----------|--|
| 1 | LL114    | Quantronix 114, 602, 603, Warranty 200 Hrs             |
| 2 | LL116LL  | Quantronix 116, 604, 416, 4919, 4216, Warranty 400 Hrs |
| 3 | LL116LLS | Quantronix 116, Warranty 600 Hrs                       |
| 4 | LL117LL  | Quantronix 117, 117E, 4217, Warranty 400 Hrs           |
| 5 | LL749    | Quantronix 117 laser lamp 600 hours (35Amp Maximum)    |
| 6 | LL118    | Quantronix 118, OTARI                                  |
| 7 | LLDRS    | Quantronix DRS I, DRSII                                |
| 8 | LL749A   | Quantronix 117 Laser lamp 600 hours (40 Amps Maximum)  |

### RASEL

|   |        |                                       |
|---|--------|---------------------------------------|
| 1 | LL5126 | Rasel Lamp MS6384AL, 20 Amps 156/162V |
| 2 | LL5093 | Rasel Laser, 20 Amps 154/160V         |

### RAYTHEON

|   |          |  |
|---|----------|--|
| 1 | LLSS500K | Raytheon SS500, SS525, SS531, SS550, Krypton |
| 2 | LLSS500X | Raytheon SS500, SS525, SS531, SS550, Xenon   |

### ROFIN BAASEL

|   |                     |   |
|---|---------------------|---|
| 1 | LL512AS             | Baasel 600, 80750-005, 131100029, 209-0889  |
| 2 | LL601S              | Baasel 601, 80750-006, 131100030, 202-0833  |
| 3 | LL601LL (Long Life) | Baasel 601, 80750-006, 131100030, 202-0833  |
| 4 | LL166               | Bassel 2001, 6000, StarMark SM65, 80750-009, 131100032, 131100054, 202-08891, 80750-045 |
| 5 | LL209               | Baasel 2001, 6000, StarMark SM90, 80750-008, 131100031, 202-08331                       |
| 6 | LL700               | Baasel StarMark SMI50, 80750-029, 131100046, 209-10481                                  |
| 7 | LL800               | Baasel Laser Epixan Alexandrite   |
| 8 | LLXF889             | Baasel StarCut 18, 4001, BLS27, BLS701, BLS710, BLS720, 80750-026, 131100043, 80750-012 |

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| NUMBER | ITEM PART NUMBER | LASER RAIL  |
|--------|------------------|---|
| 9      | LL9600           | Baasel StarWeld Performance, 80750-012, 131100035, 5000 Series, 6000 Series, 202-0832 |
| 10     | LL9615           | Baasel StarWeld 80750-027, 131100044  |
| 11     | LL2412           | Baasel StarWeld Tool 100W, 80750-043, 131100052                                       |
| 12     | LLJK37           | Baasel StarWeld 150W, BLS730, 80750-010, 131100033                                    |
| 13     | LL9674           | Baasel StarWeld 250W, 80750-028, 131100045  |
| 14     | LL1122           | Baasel StarWeld 500W, Xenon   |
| 15     | LL1123           | Baasel StarWeld 500W, Krypton/Xenon, 80750-031  |
| 16     | LLX924           | Baasel Superb XL Er YAG   |

## ROFIN SINAR

|   |        |  |
|---|--------|--|
| 1 | LL767  | Rofin Sinar Evermark 8070, 815, 860,                                   |
| 2 | LL726  | Rofin Sinar RSY90Q, RSY120Q, PowerLine, 751015A (equivalent to NL5023) |
| 3 | LL9601 | Rofin Sinar Pulsed, 710824, 710799                                     |
| 4 | LL1445 | Rofin Sinar 710798   |
| 5 | LL9607 | Rofin Sinar RSY 300, 751-429, 131100084                                |

## SCHWARTZ E-O

|   |        |                      |
|---|--------|----------------------|
| 1 | LL6834 | Schwartz 1-2-3 HoYAG |
|---|--------|----------------------|

## SCITON

|   |        |                   |
|---|--------|-------------------|
| 1 | LL2062 | Sciton IPL System |
|---|--------|-------------------|

## SEI

|   |          |                |
|---|----------|----------------|
| 1 | LLQCW336 | SEI 120W laser |
| 2 | LL9300   | SEI 80W laser  |

## SHARPLAN

|   |         |  |
|---|---------|--|
| 1 | LL95    | Sharplan 2100, 300                               |
| 2 | LL7112  | Sharplan 5100 Epi-touch                          |
| 3 | LL2028  | Sharplan 5100 Epi-touch Alexandrite, New Version |
| 4 | LLXF390 | Sharplan 2000 Ruby                               |
| 5 | LL1311  | Sharplan 5000 Ruby                               |
| 6 | LL8586  | Sharplan Epilight                                |

## SIEMENS

|   |         |                   |
|---|---------|-------------------|
| 1 | LL512AS | Siemens Silamatic |
|---|---------|-------------------|

| NUMBER                     | ITEM PART NUMBER   | LASER RAIL   |
|----------------------------|--------------------|--|
| <b>SIMRAD</b>              |                    |  |
| 1                          | LLI803             | Simrad LPI   |
| <b>SIRO LASERTEC</b>       |                    |  |
| 1                          | LLJK574            | Siro Laser ALC35, ALO35, ALS35,  |
| 2                          | LLK394             | Siro Laser ALS35S, SL50, SL50P, SL75, SL75P, SLI150, Thunder, Tornado, Hurricane, Thunderstorm |
| <b>SISMA</b>               |                    |  |
| 1                          | LLK479             | Sisma SL25, SL35   |
| 2                          | LLPL50LL           | Laserva LL SL50, SL80, SL100, LM series  |
| <b>SLS BIOPHILE</b>        |                    |  |
| 1                          | LLXF716            | Chromos 694 Ruby, MEHL, Chromos 585 Dye laser, N Lite  |
| <b>SOLAR LASER SYSTEMS</b> |                    |  |
| 1                          | LL9858             | Solar laser 50J  |
| 2                          | LL9654             | Solar 50W  |
| 3                          | LL9656             | Solar 100W   |
| <b>SPECTRA PHYSICS</b>     |                    |  |
| 1                          | LL570S             | Spectra Physics 3000, 340  |
| 2                          | LL4462S            | Spectra Physics 380  |
| 3                          | LLDCRI             | Quanta Ray DCRI  |
| 4                          | LL4539             | Quanta Ray DCR2, DCR11, GCR Series, PRO 250-10, PRO 350, INDI series, LAB130, SP-0004-0725     |
| 5                          | LLQCW324           | Spectra Physics Merlin, 9800-2210  |
| <b>SPECTRON</b>            |                    |  |
| 1                          | LLS26              | Spectron SL500W, SL501, SL501Q, SL50Q, SL501T, SL501TQ, F900-3                                 |
| 2                          | LLS27              | Spectron SL502, SL502Q, SL902, SL902Q, SL902T, SL902TQ, SL903, F900-4                          |
| 3                          | LLQXF166           | Spectron SL400-800, SLD601, F400-3 (Oscillator)  |
| 4                          | LLQXF169           | Spectron SL400-800, SLD613, F400-4 (Amplifier)   |
| 5                          | LLQXF182           | Spectron SL1   |
| 6                          | LLI311             | Spectron FI220-4 Sharplan 5000 Ruby  |
| 7                          | LLXF390            | Spectron FI200-4, Sharplan 2000 Ruby, NWL Levante, Limmer Ruby                                 |
| 8                          | LLI852 (LONG LIFE) | Spectron SL502, SL502Q, SL902, SL902Q, SL902T, SL902TQ, SL903, F500-4                          |
| 9                          | LLI313             | Spectron SL1302Q, SL1308TQ, FI500-5  |
| 10                         | LLI010             | Spectron SL603, F410-4C  |
| 11                         | LLXF888            | Spectron SL456G, FI200-2   |
| 12                         | LL5129             | Spectron F950-4  |
| 13                         | LL2260             | Spectron F5501-6, F5501-6 (40A 195-210V)   |

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| NUMBER                           | ITEM PART NUMBER | LASER RAIL                                       |
|----------------------------------|------------------|--|
| 14                               | LL2260/50A       | Spectron F5501-6P F5501-60P (50A 210-220V)       |
| 15                               | LLS62            | Spectron 3580-3, Lasermatic                      |
| 16                               | LLXF683          | Spectron SL852G, F450-2                          |
| 17                               | LL2343           | Spectron SL1310, F900-5                          |
| 18                               | LL8324           | Spectron 2w Yag                                  |
| <b>SURGICAL LASER TECHNOLOGY</b> |                  |  |
| 1                                | LL5064           | SLT 0300-6040                                    |
| <b>SYLVANIA</b>                  |                  |  |
| 1                                | LL4678           | Sylvania 1610, Xenon                             |
| 2                                | LL6063           | Sylvania 1610, Krypton                           |
| 3                                | LL9504           | Sylvania GTE 612-1                               |
| <b>TECHNOMED</b>                 |                  |  |
| 1                                | LL4801           | Technomed MC2500                                 |
| <b>TERADYNE</b>                  |                  |  |
| 1                                | LL510S           | Teradyne 311, H-507                              |
| 2                                | LL512AS          | Teradyne 411, H-514, WD411                       |
| 3                                | LL708S           | TLSI W614, W670                                  |
| 4                                | LL4462S          | TLSI W614, W670                                  |
| 5                                | LL114            | Teradyne M118                                    |
| 6                                | LL116LL          | Teradyne W419, W421, W429, W614, M118 (400 hrs)  |
| 7                                | LL116LLS         | Teradyne W419, W421, W429, W614, M118 (600 hrs)  |
| <b>TEXAS INSTRUMENTS</b>         |                  |  |
| 1                                | LL6016           | Texas Instruments 803285-4                       |
| <b>THALES</b>                    |                  |  |
| 1                                | LL1788           | Thales Saga lasers Nd:YAG 220/20, 220/10, Pulsed |
| 2                                | LL164            | Thales Saga lasers Nd:YLF laser, 120/10, CW      |
| <b>THERMOLASE</b>                |                  |  |
| 1                                | LL8142           | Thermolase Softlight                             |

| NUMBER                  | ITEM PART NUMBER   | LASER RAIL   |
|-------------------------|--------------------|--|
| <b>T.L.T.</b>           |                    |  |
| 1                       | LL4491S            | T.L.T. Model 800   |
| 2                       | LL601S             | T.L.T. Model 1200, 1400  |
| 3                       | LL117LL            | T.L.T. Model 2400, Quantronix 117 (400 hrs)  |
| 4                       | LL749              | T.L.T. Model 2400, Quantronix 117 (600 hrs)  |
| <b>TOSHIBA/SHIBAURA</b> |                    |  |
| 1                       | LL501              | Toshiba LAY711, 614, 631, 20A, 140-162V  |
| 2                       | LLAY606            | Toshiba LAY606A, 608A  |
| 3                       | LLAY806            | Toshiba LAY806   |
| 4                       | LL95               | Toshiba LAY616, 618, Sharplan P8FC010  |
| 5                       | LL114              | Toshiba LAY612, 6240   |
| 6                       | LL325              | Toshiba OTARI, LAY791, P8FC013   |
| 7                       | LLQCWI8            | Toshiba LAY714, 651, 717, 601, 602, 603  |
| 8                       | LLAY600            | Toshiba LAY600A, C, D  |
| 9                       | LLAY601            | Toshiba LAY601, 602, 603, 619, P8FA019   |
| 10                      | LLAY605A           | Toshiba LAY605A  |
| 11                      | LL4465B            | Toshiba P8FC011, 20A, 145-155V   |
| 12                      | LL5024             | Toshiba LAY729EB-5AP, 3000W P8FC016A LAY664D   |
| 13                      | LL5092             | Toshiba P8FC018D,  |
| 14                      | LL9756             | Toshiba P8FA002  |
| 15                      | LL4465A            | Toshiba P8FC011, 20A 151-155V  |
| 16                      | LL5093             | Toshiba P8FC011, 20A 154-160V  |
| 17                      | LL7760             | Toshiba LAY729GC   |
| 18                      | LL6925             | Toshiba P8FA013B, LAY803, P8FA013  |
| 19                      | LL9753             | Toshiba LAY822A/B, P8FA018   |
| 20                      | LLXFI124           | Toshiba 600W LAY828HA, P8FA024   |
| 21                      | LL5147             | Toshiba UYH-01900, 100W laser, P8FC019B  |
| 22                      | LL5149             | Toshiba LAY688, 2kW laser, P8FC02  |
| 23                      | LL5145             | Toshiba LAY75B, P8FC018F   |
| 24                      | LL5109             | Toshiba P8FC018  |
| <b>TRUMPF</b>           |                    |  |
| 1                       | LLS27              | Trumpf VectorMark  |
| 2                       | LL1852 (LONG LIFE) | Trumpf VectorMark  |
| 3                       | LL2000             | Trumpf HL353D, HL506D, HL703D, HLI003D, HLI006D, HLI504D, HL2006D, HL3006D, HL4006D, 759082, 01-04-23-0  |
| 4                       | LL1000LL           | Trumpf HL353D, HL506D, HL703D, HLI003D, HLI006D, HLI504D, HL2006D, HL3006D, HL4006D, 1252860, 01-04-34-0 |
| 5                       | LL260              | Trumpf HLI24P, HL42P, HL54P, HL204P, 01-04-22-0, 760512  |
| 6                       | LL506              | Trumpf HL506P, 01-04-27-00, 773787   |
| 7                       | LL304              | Trumpf HL304P  |

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| NUMBER                         | ITEM PART NUMBER | LASER RAIL                                |
|--------------------------------|------------------|---|
| <b>UNIVERSAL LASER SYSTEMS</b> |                  |   |
| 1                              | LL708S           | LEE 808, 812, 20 Amp Lamp, High Stability |
| 2                              | LL4462S          | LEE 808, 812, 29 Amp Lamp                 |
| <b>U.S. LASER</b>              |                  |   |
| 1                              | LL521            | US Laser Model 403TQ3                     |
| <b>USHIO</b>                   |                  |   |
| 1                              | LL5132           | 40W laser system                          |
| <b>VECTOR LASER</b>            |                  |   |
| 1                              | LL9654           | Vector Vision laser 50W                   |
| 2                              | LL9656           | Vector Vision laser 100W                  |
| <b>VISION LASER</b>            |                  |   |
| 1                              | LL9654           | Vector Vision laser 50W, Flash 2000       |
| 2                              | LL9656           | Vector Vision laser 100W                  |
| <b>WAVELIGHT</b>               |                  |   |
| 1                              | LLXF701          | Wavelight Burane Er:YAG                   |
| 2                              | LL8280           | Wavelight Lyra, LSY BL12                  |
| 3                              | LL5001           | Wavelight Venus Er:YAG                    |
| 4                              | LL800            | Wavelight Arion                           |
| 5                              | LL520BC          | Wavelight Aura                            |
| 6                              | LL800            | Wavelight Alexandrite EpiXanBLM 1000 AX   |
| 7                              | LLXF390          | Wavelight LSY BL2                         |
| 8                              | LL1311           | Wavelight LSY BL8                         |
| 9                              | LL5045           | Wavelight LSY BL9                         |
| <b>WORLD OF MEDICINE</b>       |                  |   |
| 1                              | LL7078           | UV-100                                    |
| <b>XENOLITE</b>                |                  |   |
| 2                              | LL1062           | Xenolight IPL system                      |

| NUMBER          | ITEM PART NUMBER    | LASER RAIL                            |
|-----------------|---------------------|---------------------------------------|
| <b>ZANOBONI</b> |                     |                                       |
| 1               | LL601LL (LONG LIFE) | Zanaboni 60W Marking System (600 hrs) |
| 2               | LL601S              | Zanaboni 60W Marking System (400 hrs) |

If your lamp is not listed please provide us with an original lamp sample and details of the laser system.

## LAMP SAFETY DATA SHEET

### General

Flashlamps belong to a family of light producing devices that either operate in a pulse mode (flash) or CW (continuous arc).

Solid state laser pumping, all lamps regardless of mode of operation are manufactured from tungsten and quartz. Terminations may be electrical connectors manufactured from stainless steel, nickel-plated copper/brass, or copper lead wires either nickel or silver-plated. The lead wires may be insulated with silicone tubing, PTFE or heat shrink. Additionally RTV silicone agents may be incorporated for water/electrical sealing.

Quartz is used to form the envelope (gas containment) and tungsten the electrodes (electrical feed through and arc attachment).

Produce the desired spectrum, the lamps are filled with an inert gas (xenon or krypton) at pressures from half an atmosphere (negative pressure) to several atmospheres (positive pressure). No mercury is used in the manufacture or filling of flashlamps.

### Safety Aspects

#### Quartz

Other than dangers associated with broken glass there are no issues of concern regarding the handling or disposal of the quartz. Do not touch the quartz envelope of a good lamp with bare fingers – it will shorten the lamp life.

#### Tungsten

Electrical feed throughs and anodes are made from pure tungsten and can incorporate lanthanum oxide or potassium at levels no greater than 1%. Tungsten and its dopants can be regarded as stable, posing no health or disposal hazards.

Cathodes incorporate barium, calcium and strontium oxides. Although barium and strontium are hazardous materials they are in the form of a stable ceramic within the tungsten of the cathode.

Some leaching of barium and strontium will take place when the cathode is wet. However, amounts will be small (milligrams) and should not be regarded as a hazard.

**ALL TUNGSTEN USED IN FLASHLAMPS ARE FREE FROM THORIA.**

#### Electrical Connectors

There is no health or disposal hazards associated with the connectors or lead wires except those associated with fumes from incinerating PTFE or silicone potting compounds.

#### Gas Fill

The gases used (xenon and krypton) are inert and pose no health and safety issues should the lamp be broken.

There is a risk from lamps exploding that are filled to pressures over one atmosphere (positive pressure). Generally, this risk is very small. With competent and careful handling, no real risk is posed providing safety glasses are worn when handling positive pressure lamps.

The risk resulting from an exploding lamp is from small pieces of quartz penetrating the eyes, there is generally insufficient energy for quartz to penetrate the skin. By far the main danger from a broken lamp is cuts to the hand when picking up or disposing of the quartz pieces

**ALWAYS WEAR SAFETY GLASSES WHEN HANDLING LAMPS.**



## UV/Visible Radiation

All flash and arc lamps produce intense UV and visible radiation in operation. Generally the lamp is contained within the laser optical pump cavity and is completely screened. Some laser systems have a portion of the lamp extending from the cavity and although this part of the lamp is not in the are (active area), some light is radiated into free space. It is very unlikely that this light is capable of damaging the eye as its intensity is very low, but as a general measure of safety, it is recommended that UV filtering safety glasses be worn if spurious light is unavoidable.

## Disposal

Regardless of whether the lamp is a high or low-pressure device, we recommend the following:

When disposing of a positive or low-pressure lamp, it should be placed in a stout padded bag (jiffy bag?) and sealed. The lamp should then be smashed and then bag and lamp can be disposed of as normal industrial rubbish. Glass from previously broken lamps should be placed in a `sharps' bin.

Date of issue: 22 August 2006

## Disclaimer

Laser SOS Ltd believes this information to be true and accurate statement. However, disposal should be within local legislation and Laser SOS disclaims all liability with respect to the use or disposal of our products, including without limitation, liability for injury of any kind to the user or third party persons.

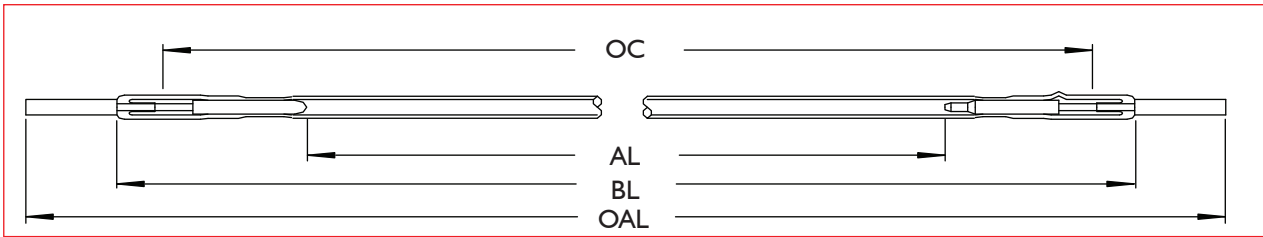
**LAMP DEVELOPMENT SPECIFICATIONS**

Customer name and address: .....

Tel: ..... Fax: .....

**FAX BACK**

+44 1480 469978



|                              |                             |                           |
|------------------------------|-----------------------------|---------------------------|
| Arc length (AL) = .....      | O-Ring centres (OC) = ..... | Pass-through dia. = ..... |
| Body length (BL) = .....     | Lamp bore = .....           | Lamp OD = .....           |
| Overall length (OAL) = ..... | Side-arm position .....     |                           |

|                   |  |          |  |
|-------------------|--|----------|--|
| Envelope material | <input type="checkbox"/> CFQ<br><input type="checkbox"/> CDQ<br><input type="checkbox"/> SFQ<br><input type="checkbox"/> TDQ | Gas Fill | <input type="checkbox"/> Krypton<br><input type="checkbox"/> Xenon<br><input type="checkbox"/> Mix: ..... Krypton, & ..... % Xenon |
|-------------------|--|----------|--|

Lamp type  Pulse    Cooling:  Air     Forced Air     Water

|  |                                      |                                |                          |
|--|--------------------------------------|--------------------------------|--------------------------|
| Operation <input type="checkbox"/> PFN | <input type="checkbox"/> Square wave | Pulse length ..... $\mu$ s/ms  | Trigger voltage ..... kV |
| Capacitance ..... mF                   | Pulse Current ..... A                | O/C simmer ..... V             | Ko ..... WA              |
| Inductance ..... mH                    | Pulse Voltage ..... V                | Pulse Voltage ..... V          | Average Power ..... W    |
| Voltage ..... V                        | Pulse energy ..... J                 | Simmer voltage ..... $V_{max}$ | Frequency ..... Hz       |

Continuous    Operating Current ..... A    Operating Voltage ..... V    Voltage tolerance +/- ..... V

Connector type (measurements in mm)

|  |  |  |   |   |
|--|--|--|---|---|
| <input type="checkbox"/> <b>Base</b><br><br>L = .....<br>D = .....<br>Material = ..... | <input type="checkbox"/> <b>Offset base</b><br><br>L = .....<br>O = .....<br>D = ..... | <input type="checkbox"/> <b>Flying lead</b><br><br>L <sub>L</sub> = .....<br>L <sub>s</sub> = .....<br>Insulation material = .....<br>Max non-flex = ..... | <input type="checkbox"/> <b>Plain</b><br><br>L = .....<br>Finish:<br><input type="checkbox"/> plain<br><input type="checkbox"/> nickel<br><input type="checkbox"/> tinned | <input type="checkbox"/> <b>PEI Sleeve</b><br><br>L <sub>p</sub> = .....<br>D <sub>p</sub> = .....<br>L <sub>c</sub> = .....<br>D <sub>c</sub> = .....<br>O = ..... |
|--|--|--|---|---|

Additional information/ Special requirements: (please continue on separate sheet if necessary)





## LASER S.O.S. GROUP

TECHNOLOGY AND MARKET **DRIVEN COMPANY!**

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Unit 3, Burrel Road, St. Ives,  
Cambs, PE27 3LE, England.

Tel.: +44 (0) 1480 460990  
Fax: +44 (0) 1480 469978

E-mail: [sales@lasersos.com](mailto:sales@lasersos.com)  
[www.lasersos.com](http://www.lasersos.com)