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## 510(k) Premarket Notification Database

<b>Device Classification Name</b>	<a href="#">Laser Instrument, Surgical, Powered</a>
<b>510(k) Number</b>	K022838
<b>Device Name</b>	FOTONA DUALIS ER:YAG/KTP LASER SYSTEM
<b>Applicant</b>	FOTONA D.D. Stegne 7, Ljubljana,
<b>Contact</b>	Mojca Valjavec
<b>Regulation Number</b>	<a href="#">878.4810</a>
<b>Classification Product Code</b>	<a href="#">GEX</a>
<b>Date Received</b>	08/27/2002
<b>Decision Date</b>	11/25/2002
<b>Decision</b>	Substantially Equivalent (SE)
<b>Classification Advisory Committee</b>	General & Plastic Surgery
<b>Review Advisory Committee</b>	General & Plastic Surgery
<b>Statement/Summary/Purged Status</b>	Summary Only
<b>Summary</b>	<a href="#">Summary</a>
<b>Type</b>	Traditional
<b>Reviewed By Third Party</b>	No
<b>Expedited Review</b>	No

Database Updated 03/06/2009

# Appendix E : Summary of Safety and Effectiveness Data

K022838

## I. General Information

Company : Fotona d.d.  
Stegne 7, 1210 Ljubljana  
SLOVENIA

NOV 25 2002

Contact Person : Mojca Valjavec

Preparation Date : 08-12-02

Device Trade Names : Fotona Dualis<sup>SV</sup> Er:YAG/KTP Laser System

Common Name : Combination of Long Pulse Er:YAG and KTP Lasers

Classification Name : Instrument, Surgical, Powered, Laser  
79-GEX  
21 CFR 878-48

## II. Description

The Fotona Dualis<sup>SV</sup> laser system is based on the Er:YAG (2940 nm) and KTP (532 nm) laser technology. It is modification to combine two lasers into one housing. The unmodified devices are the Fotona Fidelis Er:YAG laser and the Fotona Dualis<sup>VP</sup> KTP laser system. There are two optical cavities containing the KTP and Er:YAG crystals. Both are activated by means of the use of flashlamps. After each cavity, a red diode aiming beam is reflected onto a coaxial beam path using a beamsplitter assembly. The combined therapeutic and aiming beams are guided:

- In case of the KTP laser through an optical fiber delivery system to a focusing handpiece.
- In case of the Er:YAG laser through articulated arm to a focusing handpiece.

Both lasers share a common power supply, control system, and cooling system. The internal computer can be directed to select either the Er:YAG laser source or the KTP laser source. When the laser is first turned on the physician is able to select the desired wavelength via control panel.

## III. Intended Use

The Fotona Dualis<sup>SV</sup> KTP laser is intended for incision, ablation, vaporization, coagulation, and hemostasis of vascular lesions and soft tissue in various surgical areas. All soft tissue is included, such as skin, cutaneous tissue, subcutaneous tissue, striated and smooth tissue, muscle, cartilage meniscus, mucous membrane, lymph vessels and nodes, organs, and glands.

The Fotona Dualis<sup>SV</sup> Er:YAG laser is indicated for incision/excision, cutting, ablation, vaporization, and coagulation of soft and hard tissue in various surgical areas.

#### **IV. Summary of Substantial Equivalence**

Fotona believes that its Dualis<sup>SV</sup> laser system is substantially equivalent to the Fotona Dualis<sup>VP</sup> long pulse KTP laser system previously cleared for incision, ablation, vaporization, coagulation, and hemostasis of vascular lesions and soft tissue in various surgical areas, and to the Fotona Fidelis Er:YAG laser system previously cleared for incision/excision, cutting, ablation, vaporization, and coagulation of soft and hard tissue in various surgical areas.

They therefore have the same Intended Use as the Fotona Dualis<sup>SV</sup> laser system.

The Dualis<sup>SV</sup> Er:YAG/KTP laser system shares the same design features (wavelength, active medium, cooling system, power supply, beam deliveries, controls, housing) as the predicate devices. The output characteristics are the same as those of the predicate devices.

The risk and benefits for the Dualis<sup>SV</sup> laser system are comparable to the predicate devices when used for similar clinical applications.

It is therefore believed that there are no new questions of Safety or Effectiveness raised by the introduction of the Dualis<sup>SV</sup> Er:YAG/KTP laser system.



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

NOV 25 2002

Fotona D. D.  
Mojca Valjavec  
QA/RA Manager  
Stegne 7, 1210 Ljubljana  
Slovenia

Re: K022838

Trade/Device Name: Fotona DUALIS<sup>sv</sup> Er: YAG/KTP Laser System  
Regulation Number: 878.4810  
Regulation Name: Powered, laser surgical instrument  
Regulatory Class: Class II  
Product Code: GEX  
Dated: August 20, 2002  
Received: August 27, 2002

Dear Sir or Madam:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the

Page 2 – Sir or Madam

quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address <http://www.fda.gov/cdrh/dsma/dsmamain.html>

Sincerely yours,

*Miriam C. Provost*

for Celia M. Witten, Ph.D., MD  
Director  
Division of General, Restorative  
and Neurological Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

# Appendix F : Indications for Use Statement

510(k) Number (if known): K022838

Device Name: **Fotona Dualis<sup>SV</sup> Er:YAG/KTP Laser System and Accessories**

Indications For Use:

**KTP Laser (532 nm)**

The Fotona Dualis<sup>SV</sup> KTP laser is intended for incision, ablation, vaporization, coagulation, and hemostasis of vascular lesions and soft tissue in various surgical areas. All soft tissue is included, such as skin, cutaneous tissue, subcutaneous tissue, striated and smooth tissue, muscle, cartilage meniscus, mucous membrane, lymph vessels and nodes, organs, and glands.

Dermatology :

The treatment (hemostasis, color lightening, blanching, flattening, reduction of lesion size) of the vascular lesions (Angiomas, Hemangiomas, Telangiectasia)

**Er:YAG Laser (2940 nm)**

The Fotona Dualis<sup>SV</sup> Er:YAG laser is intended for surgical incision/excision, vaporization and coagulation of soft and hard tissue. All soft tissue is included, such as skin, subcutaneous tissue, striated and smooth tissue, cartilage meniscus, muscle, mucous membrane, lymph vessels and nodes, organs and glands.

Dermatology and Plastic Surgery Indications: Epidermal nevi, telangiectasias, spider veins, actinic cheilitis, keloids, verrucae, skin tags, anal tags, keratoses, scar revision, decubitus ulcers, and skin resurfacing.

ENT Surgery Indications: ENT lesions, cysts, polyps, hyperkeratosis, oral leukoplakia

Gynecology Indications: Herpes simplex, endometrial adhesion, CIN (Cervical intraepithelial neoplasia), cysts, and condiloma.

General Surgery Indications: Surgical incision/excision, vaporization and coagulation of soft tissue during any general surgery application where skin incision, tissue dissection, excision of lesions, complete or partial resection of internal organs, lesions, tissue ablation and vessel coagulation.

Oral/Maxillofacial Indications: Oral and glossal lesions and gingivectomy

Ophthalmology Indications: Soft tissue surrounding the eye and orbit and anterior capsulotomy

Podiatry Indications: Warts, plantar verrucae, large mosaic verrucae and matrixectomy

Dentistry indications: Caries removal, cavity preparation, enamel etching

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Miriam C. Provost  
(Division Sign-Off)  
Division of General, Restorative  
and Neurological Devices

Prescription Use  (Per 21 CFR 801.109) 510(k) Number K022838 OR Over-The-Counter Use