

**ACKNOWLEDGEMENT FOR PURCHASE AND USE OF ILS, XLS & ULTRA SERIES**  
**CLASS 4 LASER SYSTEM CONVERSION MODULE**

**Universal Laser Systems, Inc.**  
**and**

\_\_\_\_\_  
Name of Owner/Purchaser – printed

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City/State/Territory/Country

\_\_\_\_\_  
[PIN/Serial Number]

The Models ILS, XLS and ULTRA Series from Universal Laser Systems, Inc. (“ULS”) (“Manufacturer”) are equipped with interlocked access doors on either side of the unit. An optional module is available to allow the user to operate the laser system with the side doors open. This module bypasses the safety interlocks on the side doors of the ILS, XLS and ULTRA Series laser system. With this optional module in place, the protective system housing will not fully contain the infrared laser radiation produced by the carbon dioxide (CO<sub>2</sub>) laser creating the potential for exposure of the operator and others to dangerous levels of laser radiation which can easily damage skin and eyes. Because of this potential for exposure, use of this optional module redefines the safety classification of the ILS, XLS and ULTRA Series laser system from Class 1, which is considered safe for use under conditions of normal use, to Class 4, which is the highest hazard class and considered potentially hazardous. Additionally, the system housing will not contain flames or by-products from potential ignition of materials within the system housing. It should also be noted that damage or ignition of flammable materials in the immediate vicinity can be caused by infrared laser radiation escaping the housing of a system equipped with the Class 4 Laser System Conversion Module (“Class 4 Module”).

**There are many mandatory safety measures set by national and international standards and laws which must be complied with when operating a Class 4 laser system.** Certain safety measures are provided by the Manufacturer through incorporation into the optional Class 4 Module, including the following:

1. **Remote Interlock Connection** – A means of remotely connecting to the interlock circuit of the laser system allowing connection of remote switches to the laser system for deactivating the laser. This feature must be used to connect an interlock switch to the doors of the designated room in which the laser system will be operated so that the laser is automatically deactivated when the doors are open.
2. **Key Control** – A removable key that prevents unauthorized operation of the laser.
3. **Laser Radiation Emission Warning Light** – A visible warning light that indicates when the laser is capable of emitting laser radiation.
4. **Attenuator** – A mechanical shutter to block emission of laser radiation, which is manually operated.
5. **Class 4 Warning Label** – A Class 4 warning label to indicate the laser system is classified as Class 4.

Certain operational safety measures are the responsibility of the Owner, Purchaser or User (collectively referred to herein as “Owner”) of the ILS, XLS and ULTRA Series laser system with the optional Class 4 laser module installed. **These safety measures are mandatory for operation of a Class 4 laser device under Federal and State law in the United States as well as under the laws of most foreign countries.** Many of these safety measures are outlined in ANSI Standard Z136.1 “American National Standard for the Safe Use of Lasers” or in equivalent standards available in most foreign countries such as the European Standard EN 60825-1. Other safety measures may be required by state and/or local authorities; for example, the Regulation BGV B2 on laser beams of the German Employer’s Liability Insurance Association, and it is the responsibility of the Owner to understand and adhere to these laws. The most common safety requirements addressed to Owners of Class 4 laser systems are outlined below:

- A. In any facility in which a Class 4 laser system is to be operated, an individual must be designated as a Laser Safety Officer (“LSO”) who will assume the authority and responsibility to monitor and enforce the control of laser hazards. The individual designated as the LSO should be trained in laser safety and aware of all safety measures set by law. There are many avenues available to acquire this training. Recognized sources of this training are the Laser Institute of America ([www.lia.org](http://www.lia.org)), the Employer’s Insurance Liability Associations in the European countries or laser safety associations within the Owner’s country or territory.
- B. The Owner of the Class 4 laser system will be responsible for creation of a controlled area in which a Class 4 laser system will be operated. A controlled area is an area designed to fully contain the laser radiation potentially escaping from a Class 4 laser system and with measures in place to prevent unauthorized personnel from entering the area including lighted warning signs outside the designated and controlled area and interlocks on entryways.
- C. The LSO will be responsible for designating and training all personnel authorized to operate, maintain or service a Class 4 laser system. It will also be the responsibility of the LSO to take measures to inform and restrict all unauthorized personnel from access to a Class 4 laser system.
- D. The Owner of the Class 4 laser system will be responsible for identifying and providing to all authorized personnel any protective equipment such as specially designed eyewear, protective equipment and clothing needed when operating, maintaining or servicing a Class 4 laser system. Further, the Owner will ensure that no juveniles operate the laser, and that mirrors, lenses and other reflecting materials are fixed and are only moved in a controlled manner if the last is in use.
- E. The Owner of the Class 4 laser system will be responsible for auditing all safety measures on a regular basis. This includes regular retraining of authorized personnel, serialization and regular inspection (and replacement when necessary) of all special eyewear and clothing and regular inspection of all safety measures surrounding the controlled area in which a Class 4 laser system is operated. The LSO may be required to maintain records as necessary to prove compliance.
- F. The LSO will be responsible for regular medical surveillance of all authorized personnel operating a Class 4 laser system. This can include but is not restricted to mandatory annual eye exams for example.
- G. Class 4 laser systems must not be used in public; for example, at tradeshow or exhibitions.

The above list is not to be considered all inclusive. Other mandatory safety measures may be applicable and will vary from state to state and country to country. **It is the responsibility of the owners of a Class 4 laser system and the owners of the facility in which it will be operated to identify and comply with all regulations pertinent to their locale.** In some states for example, anyone wishing to operate a Class 4 laser module must register with the state radiation regulatory agency, pay annual fees and submit to annual inspections. There may be penalties involved for non-compliance. The United States Occupational Safety and Health Administration (“OSHA”) has also adopted rules for safe use of lasers in the workplace. The LSO must comply with all Rules and Regulations set by applicable laws.

BY SIGNING THIS DOCUMENT, PURCHASER ACKNOWLEDGES THAT THEY HAVE READ AND UNDERSTAND THE INFORMATION PROVIDED.

**THIS DOCUMENT MUST BE EXECUTED AND RETURNED TO ULS PRIOR TO COMPLETION OF SALE.**

**Acknowledged by:**

\_\_\_\_\_  
Signature - Owner or Authorized Party

\_\_\_\_\_  
Printed Name of Signatory

\_\_\_\_\_  
Title of Signatory

\_\_\_\_\_  
Date