

北京热刺激光 CO2 玻璃管激光器窗口镜保护端帽使用说明

尊敬的客户：

首先感谢广大用户对热刺品牌产品一如既往的支持与厚爱！

为更好的服务广大客户，我公司现对 CO2 玻璃管激光器输出端口部分进行升级，激光输出窗口镜保护端帽增加防尘镜片，此保护端帽可以有效的保护输出窗口镜不受污染，可适应更恶劣的使用环境并延长激光器使用寿命。

1、窗口镜保护端帽使用必要性：

北京热刺激激光技术有限公司 CO2 玻璃管激光器输出窗口镜采用核放射性材料进行镀膜，我公司是亚洲唯一、全球第二家拥有此技术资质的公司。此工艺镀膜后输出窗口镜片对激光的吸收率极低，正常状态下激光器可连续使用且激光输出口无需水冷。

然而部分客户现场工作环境极其恶劣，激光输出窗口镜片极易污染而导致输出端发热严重，此状态长时间使用后会导导致功率下降及模式变化等不可逆损坏，降低激光器使用寿命。

2、窗口镜保护端帽使用方法：

新的保护端帽由护帽、镜片、垫圈、螺母四部分构成，分解结构及整体形貌如下图所示。



使用时将原端帽拆除，安装新的新的保护端帽即可，如图 2 所示。



保护镜片污染导致切割能力不满足使用要求时，可拆下保护端帽，按图示更换新的保护镜片后，安装保护端帽继续使用。

北京热刺激激光技术有限责任公司

Beijing Reci Laser Technology Co., Ltd.

Website: www.recilaser.com Tel: +86 10 64366506 Fax: +86 10 80841942

3、窗口镜保护端帽使用优点：

1) 新的保护端帽可有效的防止灰尘污染输出窗口片，保证激光器不会因镜片污染而减少使用寿命。

2) 新的保护端帽结构拥有较大的表面积，可以更好的散热。

3) 保护端帽镜片污染严重导致光束质量变差时，可更换保护镜片继续使用。

新的保护端帽已经过大量实验及测试，其对激光功率及光斑模式影响极小，请客户放心使用。

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Beijing Reci CO2 Laser tube Protective Sheath Instruction Manual

Dear customers:

Thank you for all your support and concern to the company of RECI Laser!

In order to serve customers better, our company upgraded the output port of CO2 laser tube. The protective sheath added dustproof mirror to prevent the output mirror from being polluted effectively. Also, the upgrade could adapt to harsh working environment and extend service life of laser tube.

1. The necessity of using protective sheath:

Beijing Reci Laser Technology Co., Ltd is the only one nuclear radioactive material coating company in Asia, and the second in the world. The company vacuum-deposits the radioactive isotope material to the optical lens. The coating technology has a very low absorption and could use continuously without water cooling.

Nevertheless, some customers' factories have bad working condition. The output mirror of laser tube is easily polluted, leading to the more serious heating problem. This status is highly likely in reducing the power, change the mode, and reduce the lifespan.

2. Protective Sheath Instruction Manual:

The new protective sheath is combined by protecting cap, mirror, washer, and nuts. The breakdown structure as shown below:



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Please dismantle the original sheath and replace the new protective sheath as shown below:



3. The advantages of using protective sheath:

- 1) The new protective sheath could prevent the output mirror polluted by dust and guarantees a long service life of laser tube.
- 2) The new protective sheath structure has a larger surface area to achieve better cooling.
- 3) The new protective sheath is replaceable when the laser beam quality gets worse.

The new protective sheath has conducted extensive testing in our company. It has minimal impact on the laser power and beam quality. Please rest assured use customers.

Beijing Reci Laser Technology Co., Ltd

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