



## Product Information

Carmanhaas (ZnSe Beam Combiner) is a high-quality optical component used for combining CO2 laser beams. It is made of ZnSe substrate and has a diameter of 12.7mm to 50.8mm. The reflectivity is 90% at 0.633μm and the transmission is 98% at 10.6μm. The angle of incidence is 45° and the polarization is R-Pol.

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Beam Combiner							
P/N	Substrate	Diameter(mm)	THK(mm)	Transmissoin @10.6um	Reflectivity	Angle of Incidence	Polarization
BC-0508-633UM	ZnSe	12.7	2.03	98%	90%@0.633μm	45°	R-Pol
BC-0708-633UM	ZnSe	19.05	2.03	98%	90%@0.633μm	45°	R-Pol
BC-1012-633UM	ZnSe	25.4	3.05	98%	90%@0.633μm	45°	R-Pol
BC-1012-633UM	ZnSe	25.4	3.05	98%	90%@0.670μm	45°	R-Pol
BC-1512-633UM	ZnSe	38.1	3.05	98%	90%@0.633μm	45°	R-Pol
BC-2020-633UM	ZnSe	50.8	5.08	98%	90%@0.633μm	45°	R-Pol
BC-0508-633UM	K9/Fused Silica	12.7	2.03	98%	90%@0.633μm	45°	R-Pol
BC-0708-633UM	K9/Fused Silica	20	2	98%	90%@0.633μm	45°	R-Pol
BC-1012-633UM	K9/Fused Silica	25	3	98%	90%@0.633μm	45°	R-Pol

★The above lists are our standard parts and we can also make the customized parts for you.

Carmanhaas ZnSe Beam Combiner Company. Carmanhaas is a high-quality optical component used for combining CO2 laser beams. It is made of ZnSe substrate and has a diameter of 12.7mm to 50.8mm. The reflectivity is 90% at 0.633μm and the transmission is 98% at 10.6μm. The angle of incidence is 45° and the polarization is R-Pol.

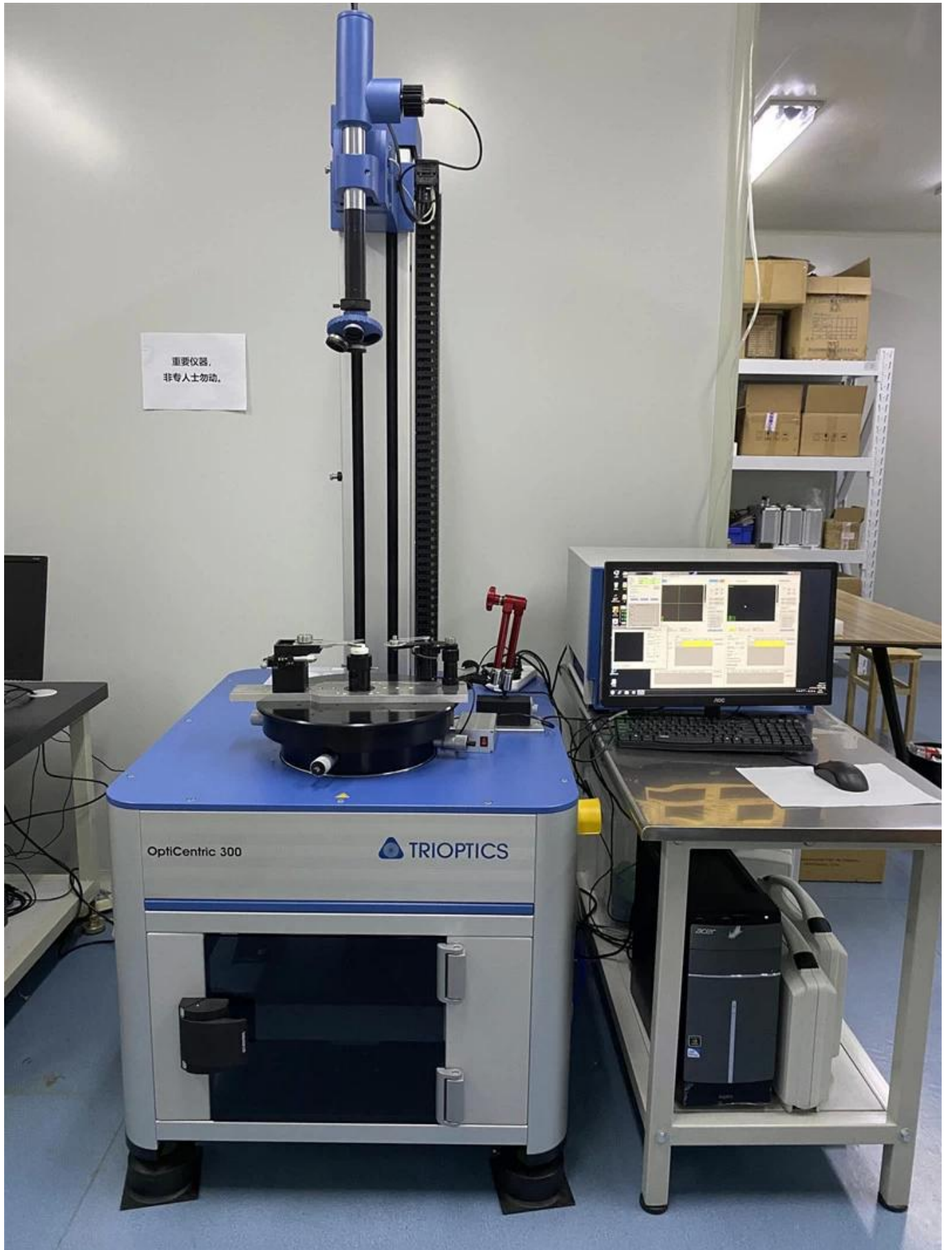




## Factory





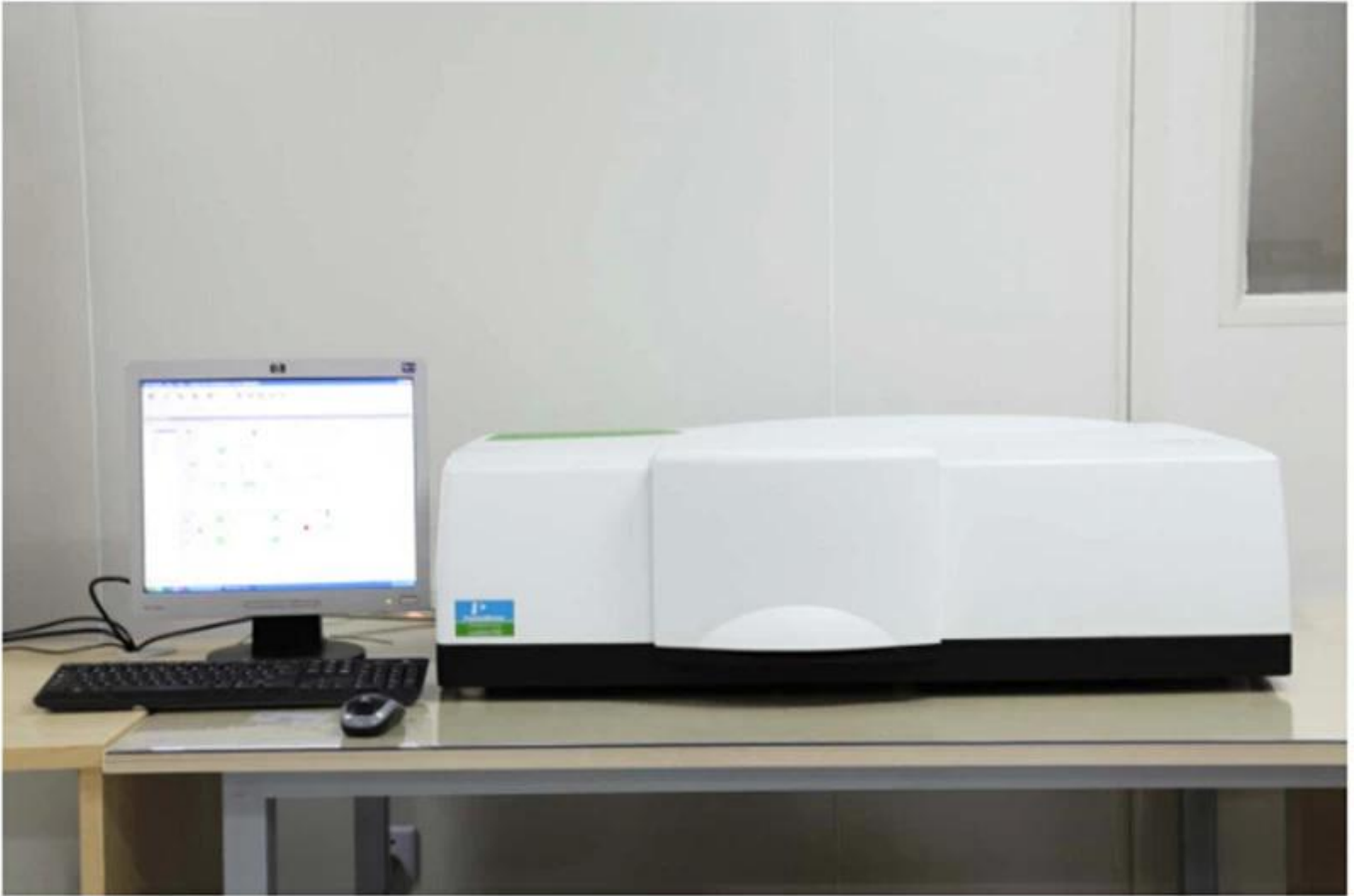


重要仪器,  
非专业人士勿动。

OptiCentric 300

TRIOPTICS





PerkinElmer Lambda 950---Testing Transmission and Reflectivity







# CERTIFICATE

## ATTESTATION CERTIFICATE OF MACHINERY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully. 2006/42/EC Machinery Directive and 2014/35/EU Low Voltage Directive have been taken as references for these processes

Company Name : **Camman HAAS Laser Technology (Suzhou) Co., Ltd.**

Company Address : No 155, West Road Suhong, Suzhou Industrial Park, Suzhou City, Jiangsu , P.R.China

Related Directives and Annex : **Low Voltage Directive 2014/35/EU  
Machinery Directive 2006/42/EC**

Related Standards : **EN ISO 12100:2010; EN 60204-1:2006+A1:2009+AC:2010**

Product Name : **Laser Marking Machine**

Report No and Date : SD-90049717:09.08.2018

Product Brand/Model/Type : LMCH-3W,LMCH-5W,LMCH-10W,LMCH-15W,LMCH-20W,LMCH-25W,  
LMCH-30W,LMCH-50W,LMCH-60W,LMCH-70W,LMCH-100W,  
LMCH-120W,LMCH-150W,LMCH-200W,LMCH-300W,LMCH-500W

Certificate Number : **M.2018.201.N6073**

Initial Assessment Date : 10.08.2018

Registration Date : 13.08.2018

Reissue Date/No :

Expiry Date : **12.08.2023**

*U. Bayraktar*  
UDEM International Certification  
Auditing Training Centre Industry  
and Trade Inc. Co.

The validity of the certificate can be checked through [www.udem.com.tr](http://www.udem.com.tr). The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be noticed in case of any changes on the product(s)  
Address: Mulkikent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TÜRKİYE  
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 70  
E-mail: info@udemtd.com.tr www.udem.com.tr



## Certificate of Approval

Certificate No.: 10119Q12565ROM

Awarded to

**Carman Haas Laser Technology(SuZhou)  
Co., Ltd.**

Organization Code Certificate No. / Unified Social Credit Code:91320594M1MF4EP56  
Add.:No.155, West Road Suhong, Suzhou Industrial Park, Suzhou City, Jiangsu Province, P.R. China. 215000

Beijing ZhongLian TianRun Certification Center (ZLTR) certify that the  
Quality Management System of the above organization has been assessed and found to be  
in accordance with the requirements of the standard:  
**GB/T19001-2016 / ISO9001:2015**

### SCOPE OF CERTIFICATION/REGISTRATION

The Research and Development and Production of Optics Lenses (Except the limits of national laws and regulations.)

This certificate is made valid when used with certification scopes and the requirements of applicable laws and regulations. These requirements include, but are not limited to, administrative permits, scopes of qualifications, and CCC requirements.

Subject to operation conditions in requirements conformity with Quality Management System,

This Certificate is valid for a period of three years only,

**Date from: Mar 13th,2019 To: Mar 12th,2022**

The effectiveness of this Certificate shall be Validated by periodic surveillance audit of ZLTR for maintenance.

Information of this certificate can be found on the official website of Beijing Zhonglian Tianrun Certification center (<http://www.zltr.com.cn>)



Beijing Zhongliantianrun Certification Center

Room2603, 22nd Floor, 2nd Unit, Block 1, No.4 Yard, Qiyang Road, Chaoyang District, Beijing, P.R. China 100102

Information of this certificate can be found on the official website of Certification and Accreditation Administration of the People's Republic of China (<http://www.cnca.gov.cn>)

ISO 9001

ISO 9001



## Trade Shows

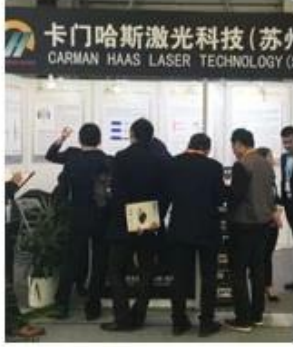
2014



2015



2016



## Packing List



# Packaging & Shipping

## Packaging 1



## Packaging 2

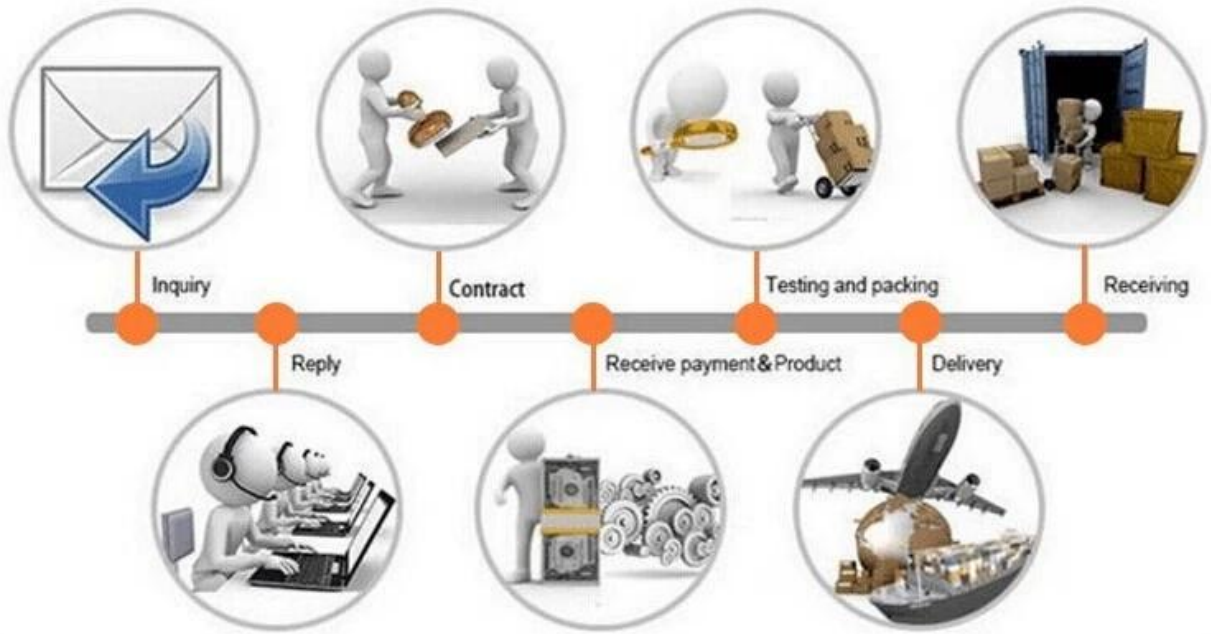


## Packaging 3



## Shipping 4





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- (1) □□□ □□ □□ □□□ DHL, UPS, FEDEX, TNT, EMS □□□ □□□ □ □□□□.
- (2) □□□ □□ □□ □□□ □□, Exwork, FOB, CNF, CIF □□ □□ □□□□ □□□ □□ □□□ □□□ □ □□□□.

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**FAQ**

**Q1. □□□□□□□?**

A1 : □, □□□ □□□□□ □□□□□ □□ □□ □□ □□□ □□□ □□ □□.

**Q2. □□□ □□□ □□□□□?**

A2 : □□□ □□□□ □□ □□ □□ □□□ □□ □□□ □□ □□ □ □□□ □□□ □□□ □□□□□□.

**Q3. □□□ □□□□□?**

A3 : □□□ □□ □□□□ □□ □□□□ □□ □□□□□ □□□□□.

**Q4. □□□ □□□ □□□ □□□□□?**

A4 : □□□ □□□□□ □□ □□ □□ □□□ □□ □□□ □□ □□, □□, □□ □□ □ □□ □□□□□. □□□□□.

**Q5. May MARKING □□□ □□□□□ □□ □□□ □□□ □?**

A5 : □! □□□ □□□ □□□ □□□□ □□□□ □□ □□□ □□ □□ □ □□□□.

**Q6. □□□ □□ □ □ □□□□?**

A6 : □, □□□ □□□ □□□ □□□ □□□ □□ □□□□□.

**Q7. OEM 與 ODM 有何區別?**

A7 : OEM 與 ODM 均指製造商。OEM 指原始設備製造商，ODM 指原始設計製造商。

**Q8. 如何選擇 OEM/ODM?**

A8 : 選擇 OEM/ODM 時，應考慮其專業性、信譽、MOQ 及 T/T 等因素。