Product Information

Product Description:

Carmanhaas Telecentric scanning lenses are a special configuration in which the arrangement of optics are designed to focus the beam such that it is always perpendicular to the flat field. This is especially important for drilling applications such as via hole drilling in printed circuit boards, ensuring that the drilled holes are perpendicular to the surface even off the center of the scanning field. Welding and structuring applications can also benefit from the use of a telecentric lens, as the spot remains round, even along the edges of the field.

Telecentric f-Theta Lenses Fused Silica are always multi-element designs and are supplied in a housing. At least one lens element will be larger than the field size to be scanned. In practice, this means that for reasons of manufacture and cost that only small field sizes are possible, in turn implying short focal lengths. Each specific application demands custom solutions for these lens types. Contact us with your specifications for a preliminary design and we will quote you.

Characteristics:

 $\Pi \Pi$ High precision, small assembly error: < 0.05mm

 $\square 2 \square High transmittance: >/=99.8\%$

□3□High damage threshold: 10GW/cm2

Carmanhaas Advantages:

- (1)Made to custom requirements.
- (2) Advanced in-house design, based on years of innovation in the field
- (3)Perpendicular beam for critical applications

Click To See More: 532nm Telecentric Lenses on Sale China









Technical Parameters:

532nm Telecentric F-Theta Scan Lenses

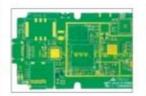
Part Description	FL(mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
TSL-532-50-100-(15CA)	100	50x50	15	123.6	M85x1
TSL-532-165-277-(15CA)	277	165x165	15	355.8	M102x1

Optical System Layout Galvano scanner 1st Galvano mirror Entrance pupil diameter (Effective diameter) 2nd Galvano mirror Aperture mask Galvano mirror separation Galvano scanner Mirror-to-lens separation F-Theta Effective Lens focal length Back working distance Scanning area Maximum optical field angle Mirror Focused spacing. spot dia. Scanned field size (2Y) Incident 1/e beam dia. (D) Clearance spacing

Figure 2: Non-telecentric vs. telecentric f-theta lenses.







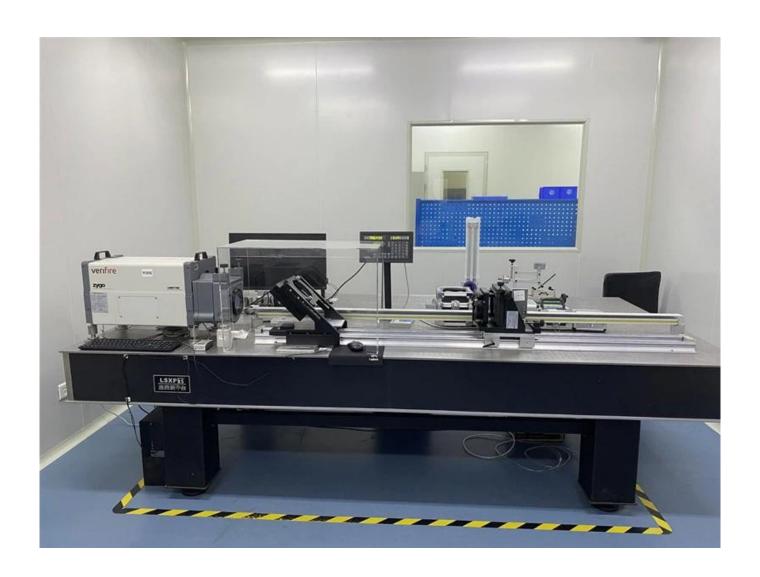


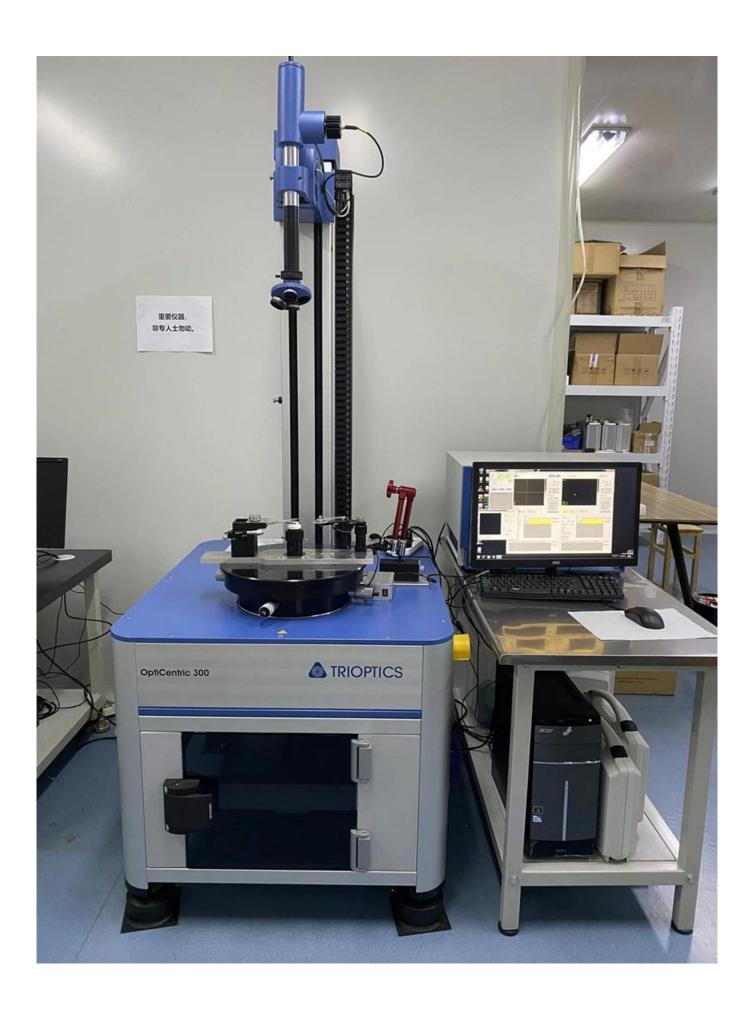


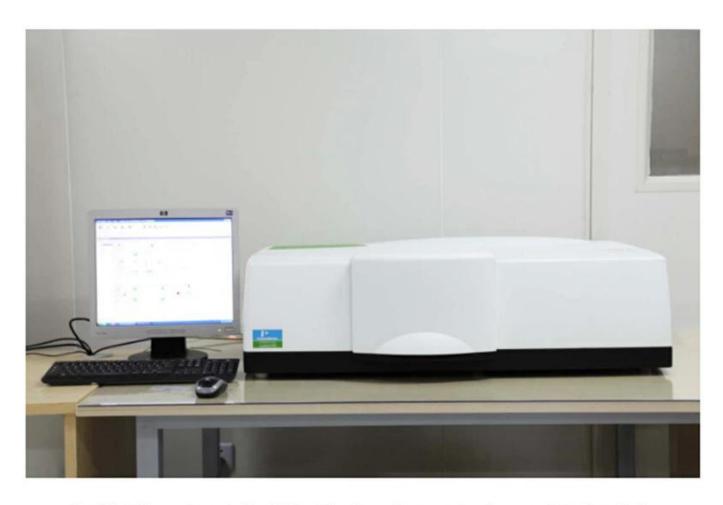
Factory











PerkinElmer Lambda 950---Testing Transmission and Reflectivity



Certificate&Exhibition

CERTIFICA

ATTESTATION CERTIFICATE OF MACHINERY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has be completed successfully, 2006/42/EC Machinery Directive and 2014/ 35/EU Low Voltage Directive have been taken as references for these proces ny Name : Camman HAAS Laser Technology (Suzhou) Co., Ltd.

: No 155, West Road Suhong, Suzhou Industrial Park, Suzhou City, Company Address

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

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 Initial Assessment Date : M.2018.201.N6073 : 10.08.2018 UDEN International Registration Date : 13.08.2018 Reissue Date/No Auditing Training Co

and Trade Inc. Co

Address: Mutaikent Mahallesi 2073 Sokak (Eki 93 Sokak) No:10 Çankaya – Ankara – TURKEY Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76 E-mak Info@udemitd.com/r www.udem.com/r



UDEM



Certificate of Approval

Certificate No.: 10119Q12565ROM

Awarded to

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

Beijing ZhongLianTianRun 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 space he found on the official website of Beijing Zhonglian Tianrun Certification center (http://www.str.com.co.)



ISO 9001





Beijing Zhongliantianrun Certification Center







Packing List

Packaging & Shipping









Return Policy:

Should returns be required:

- Step 1) Contact us with this website email.
- Step 2) Provide as much detail as possible about the problem you are having.
- Step 3) Authorization to return the item will be issued.
- Step 4) Return the item for the agreed replacement or refund.

Logistics:

- (1) For Laser Optics order delivery, can be optional with DHL, UPS, FedEx, TNT, EMS, ets
- (2)For Laser machine order delivery, can be optional with terms of EXWork FOB, CNF, CIF By Air or by Sea based on the buyer's forwarders or ours.

FAO

- Q1.Are you a manufacturer?
- A1: Yes, we are professional and experienced manufacturer with our own molds and production lines.
- Q2. How about quality of products?
- A2: Our technicians and QC teams test the products one by one using aging line, professional devices and instruments to ensure the quality for all products.
- Q3. How about price?
- A3: We are a manufacturer and always offer our customers the most competitive prices.
- Q4. How to place an order?
- A4: Contact with online service, or sent email to us directly, we will reply to you with product price, specifications, packing etc. soon. Thank you.
- Q5.May I send material to test marking performance?
- A5: Yes! You are welcome to send material to test our superior quality and service.
- Q6.Can I visit your factory?
- A6: Yes, welcome to visit our factory at your convenient time.
- O7. How can I make OEM or ODM orders?
- A7: We have different print processing for different OEM/ODM orders. Please contact us with online service or send email to us directly.
- Q8. How should I pay for my orders?

A8: You can pay by T/T would be available for qualified bank and MOQ required for each order.					