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Product Information

There are 2 types of beam expander: fixed and adjustable beam expanders. For the fixed beam expanders, the spacing between the two lenses inside the beam expander is fixed, but the spacing between the two lenses inside the adjustable beam expanders is adjustable.

Carmanhaas <u>Fixed Magnification Beam Expanders Manufacturer</u> the lens material is ZeSe, which allows the red light to go through the beam expander.

Carmanhaas could offer 3 types of beam expanders: Fixed Beam Expanders, Zoom Beam Expanders and Adjustable divergence angle beam expanders at various wavelengths of 355nm, 532nm, 1030-1090nm, 9.3um, 10.6um.





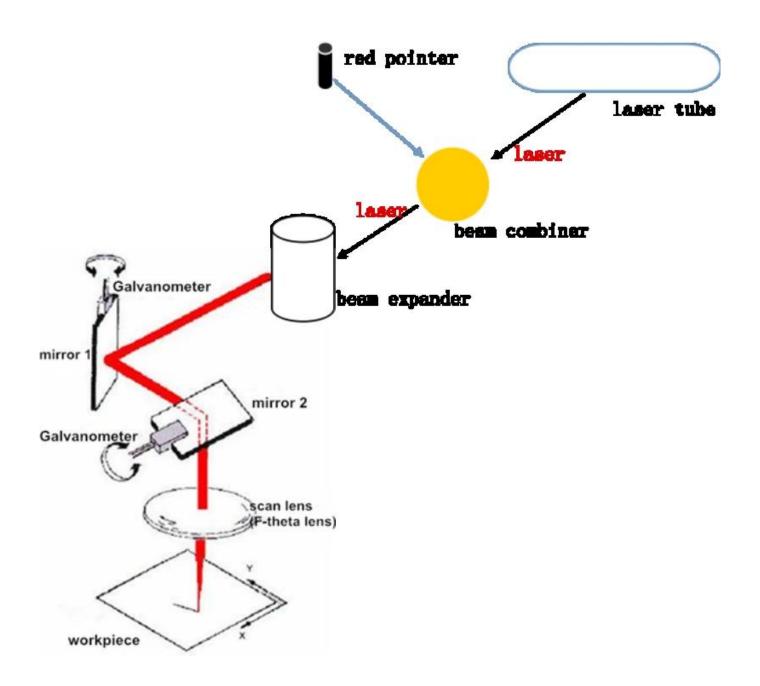












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Part number Description: BE-XXX-DYY: ZZZ-BB-A

BE ----- Beam Expanders

XXX -----Laser wavelength: 10.6 means 10.6um, 10600nm, CO2

DYY: ZZZ -----Beam Expander Output CA: Housing Length

BB -----Expansion ratio (magnification) in times

A -----type: A means Adjustable divergence angle beam expanders;

none means fixed beam expander.

CO2 Beam Expanders(10.6um)

Part Description	Expansion Ratio	Input CA (mm)	Output CA (mm)	Housing Dia(mm)	Housing Length (mm)	Mounting Thread
BE-10.6-D17:46.5-2X	2X	12.7	17	25	46.5	M22*0.75
BE-10.6-D20:59.7-2.5X	2.5X	12.7	20	25	59.7	M22*0.75
BE-10.6-D17:64.5-3X	3 X	12.7	17	25	64.5	M22*0.75
BE-10.6-D32:53-3.5X	3.5X	12.0	32	36	53.0	M22*0.75
BE-10.6-D17:70.5-4X	4X	12.7	17	25	70.5	M22*0.75
BE-10.6-D20:72-5X	5X	12.7	20	25	72.0	M30*1
BE-10.6-D27:75.8-6X	6X	12.7	27	32	75.8	M22*0.75
BE-10.6-D27:71-8X	8X	12.7	27	32	71.0	M22*0.75

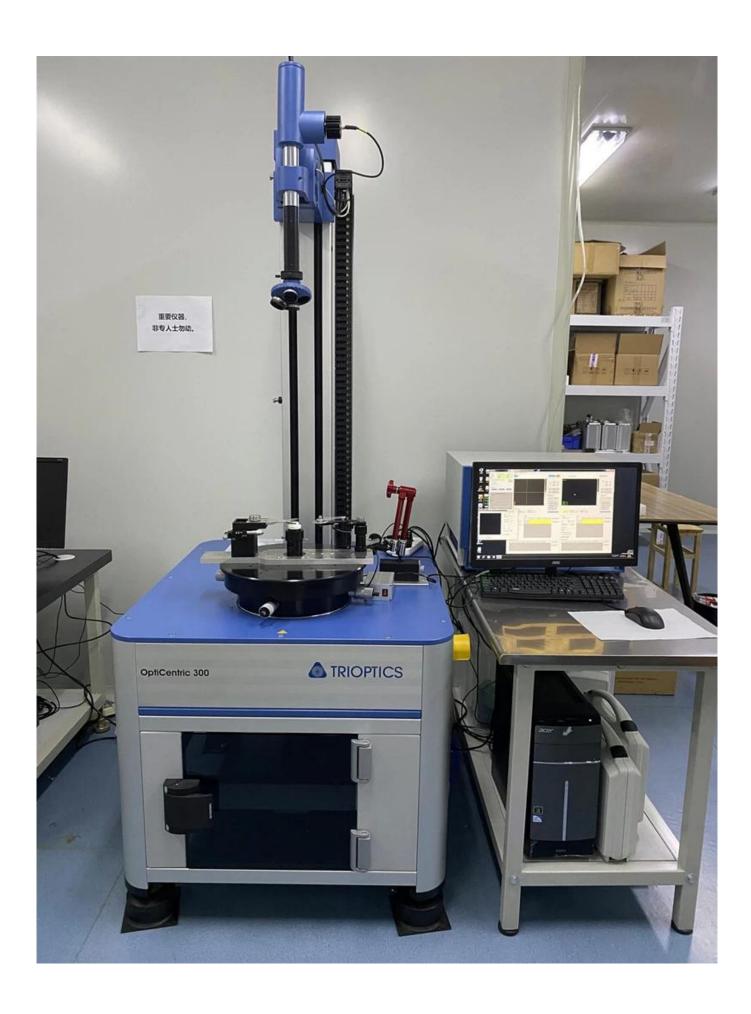


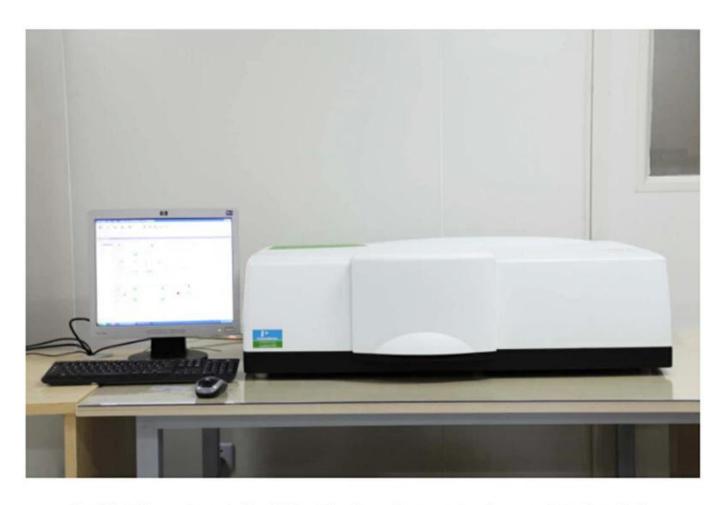
Factory











PerkinElmer Lambda 950---Testing Transmission and Reflectivity





Certificate&Exhibition

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

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

Machinery Directive 2006/42/EC

Related Directives and Annex : Low Voltage Directive 2014/35/EU

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 Initial Assessment Date : **M.2018.201.N6073** : 10.08.2018 UDEM Intern Registration Date : 13.08.2018

Reissue Date/No and Trade Inc. Co

Keessue Date/No

Exply Date

12.08.2023

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Address: Mutlukent Mahalleis 2073 Sokak (Eski 93 Sokak) No:10 Çankaya – Ankara – TURKEY

Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76

E-malk info@demRd.co.mr. www.udem.com.tr



UDEM



Certificate of Approval

Certificate No.: 10119012565ROM

Awarded to

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

Organization Code Certificate No. / Unified Social Credit Code:91320594MA1MF4EP56
Add.:No.155, West Road Suhong, Suzhou Industrial Park, Suzhou City, Jiangsu Province, P.R. China. 215000

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 scan be found on the official weaking of Beling Zhonglian Tianrun Certification center (http://www.zltr.com.cn)







Beijing Zhongliantianrun Certification Center









Packing List







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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.

- (1) For Laser Optics Order, ship by DHL, UPS, FedEx, TNT, EMS etc
- (2) For Laser Machine Order, can be optional with terms of EXW, FOB, CNF, CIF by Air or by Sea based on the buyer's forwarder or ours.



FAQ

- 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. \square
- 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?