

YAG Laser Beam Expander

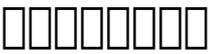
YAG laser beam expanders are used to expand the diameter of a laser beam. They are typically used in applications where a larger beam diameter is required, such as in laser cutting, welding, and material processing. The expanders consist of a series of lenses that focus and then collimate the beam, resulting in a larger diameter output beam.

YAG laser beam expanders are available in various configurations, including single-stage and multi-stage designs. The most common configurations are 2x, 3x, and 4x expansion. The expansion factor is determined by the ratio of the output beam diameter to the input beam diameter. For example, a 2x expander will double the diameter of the input beam.

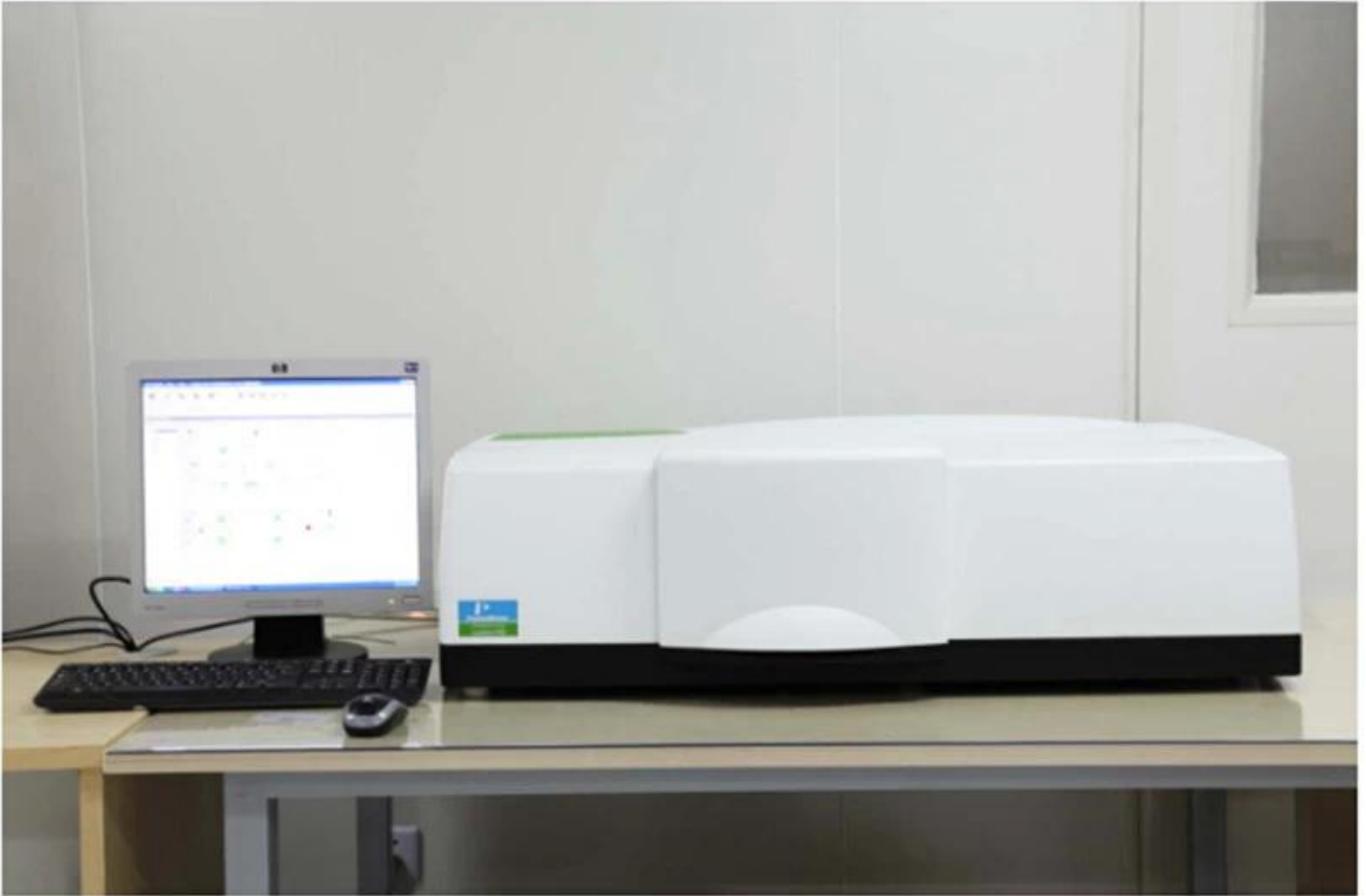
YAG laser beam expanders are typically made of high-quality optical materials, such as fused silica or BK7 glass. They are designed to be highly precise and durable, ensuring consistent performance over a long service life. The expanders are often used in conjunction with other laser components, such as mirrors and lenses, to form a complete laser system.



1064nm Beam Expander							
P/N	Substrate	Magnification	Dia (mm)	Length (mm)	Input CA (mm)	Output CA (mm)	Connect
BEX-2X-1064nm	Fused Silica	2	27	48.5	10	21.6	M22*0.75
BEX-3X-1064nm	Fused Silica	3	27	68	10	21.6	M22*0.75
BEX-4X-1064nm	Fused Silica	4	27	76	10	21.6	M22*0.75
BEX-5X-1064nm	Fused Silica	5	27	72	10	21.6	M22*0.75
BEX-6X-1064nm	Fused Silica	6	27	74	10	21.6	M22*0.75
BEX-8X-1064nm	Fused Silica	8	27	68	10	21.6	M22*0.75
BEX-10X-1064nm	Fused Silica	10	27	69.5	6	21.6	M22*0.75
BEX-15X-1064nm	Fused Silica	15	27	87	6	21.6	M22*0.75







PerkinElmer Lambda 950---Testing Transmission and Reflectivity



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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**

Signature
UDM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.



The validity of the certificate can be checked through 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

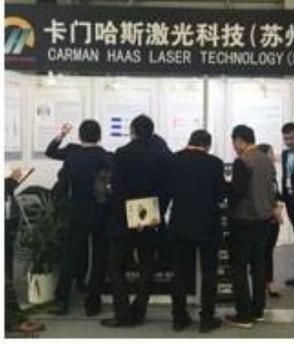
2014



2015



2016



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Packaging & Shipping

Packaging 1



Packaging 2



Packaging 3



Shipping 4



