

Product Description:

Carmanhaas Laser marking can be applied to the marking of all non-transparent materials. General optical system: Expanding the beam through the beam expander to improve the divergence angle, after the beam combines the indicator light into the galvanometer system for beam deflection and scanning, finally, the workpiece is scanned and focused by the F-THETA scan lens. Laser marking optical components mainly include beam expander and F-THETA scan lens. The role of the beam expander is to enlarge the beam diameter and reduce the beam divergence angle. F-Theta scan lens achieves uniform focusing of the laser beam.



CARMAN HAAS

F-theta Lens

Own unique designs with different focal length

Getting a smaller spot size what you demand



Detail Image



Technical Parameters: Fiber Laser F-Theta Lens (1064nm)

F-Theta Lens

Part Description	FL (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
SL-1064-50-80	80	50*50	12	91	M85*1
SL-1064-70-100	100	70*70	12	108.3	M85*1
SL-1064-110-160	160	110*110	12	170.2	M85*1
SL-1064-150-210	210	150*150	12	240.3	M85*1
SL-1064-175-254	254	175*175	14	295.4	M85*1
SL-1064-200-290	290	200*200	14	314.9	M85*1
SL-1064-220-330	330	220*220	14	343.7	M85*1
SL-1064-270-380	380	270*270	14	397.1	M85*1
SL-1064-300-420	420	300*300	14	437.1	M85*1
SL-(1030-1090)-175-254-(20CA)	254	175*175	20	278.2	M85*1
SL-1064-400-525-(20CA)	525	400*400	20	567	M85*1
SL-1064-450-650-(20CA)	650	450*450	20	720	M85*1
SL-1064-560-800-(20CA)	800	560*560	20	861	M85*1
SL-(1030-1090)-116-165-(12CA)	165	116*116	12	187.6	M85*1
SL-(1030-1090)-112-160	160	112*112	10	188.6	M85*1

UV Laser F-Theta Lens (355nm)

355nm F-Theta Lens

Part Description	Focal Length (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
SL-355-70-100	100	70*70	10	134	M85*1
SL-355-110-170	170	110*110	10	217.6	M85*1
SL-355-150-210	210	150*150	10	249	M85*1
SL-355-175-254	254	175*175	10	306.7	M85*1
SL-355-220-330	330	220*220	10	384.2	M85*1
SL-355-300-420	420	300*300	10	482.3	M85*1
SL-355-520-750	750	520*520	10	824.4	M85*1
SL-355-610-840-(15CA)	840	610*610	15	910	M85*1
SL-355-800-1090-(18CA)	1090	800*800	18	1193	M85*1

Green Laser F-Theta Lens (532nm)

532nm F-Theta Lens

Part Description	Focal Length (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance (mm)	Mounting Thread
SL-532-40-65	65	40*40	10	73.5	M55*1
SL-532-70-100	100	70*70	12	114	M85*1
SL-532-110-160	160	110*110	12	180	M85*1
SL-532-150-210	210	150*150	12	232.5	M85*1
SL-532-175-254	254	175*175	12	287	M85*1
SL-532-220-330	330	220*220	12	355	M85*1
SL-532-350-500	500	350*350	12	539	M85*1
SL-532-165-255-(20CA)	255	165*165	20	294	M85*1
SL-532-235-330-(16CA)	330	235*235	16	354.6	M85*1

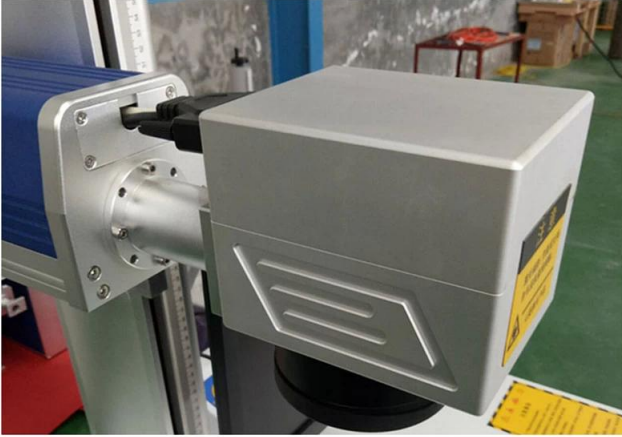
Application:

PRODUCT DETAILS

HIGH SPEED
GALVO LENS

NO.1

SMALL SIZE, FRIENDLY INTERFACE
IN ORDER TO IMPROVE THE QUALITY OF EXPORT,
USE NEW TECHNOLOGY, NEW CRAFT, IN THE GALVO
LENS SCANNING SYSTEM, GRAPHIC IS GOOD, NO DISTORION ETC...



FILED LENS SCANNING SYSTEM TO ADOPT NEW TECHNOLOGY
IMPORTED SCANNING SYSTEM MAKES THE SCANNING SPEED IS
UP TO 7000 MM/S

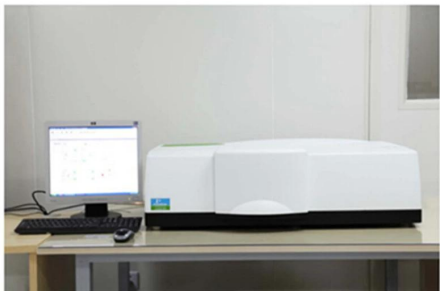
FILED LENS



Company Information:



TRIOPTICS OptiSpheric 2000 AF
 ---Testing EFL, R, Centering Error, Wedge Angle, BFL, MTF



PerkinElmer Lambda 950---Testing Transmission and Reflectivity



Carmanhaas Coating Machine







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
UDEM 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 notified in case of any changes on the product(s).
Address: Muhsenkent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TURKEY
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76
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: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 can be found on the official website of Beijing Zhonglian Tianrun
Certification center (<http://www.zltr.com.cn>)



Beijing ZhonglianTianrun Certification Center

Room2503, 22nd Floor, 2nd Unit, Block 1, No.4 Yant, 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