

光學系統設計與分析

設計目標：

本系統旨在實現高品質的光學成像，主要設計目標如下：
1. 系統應具有足夠的放大倍率，以滿足觀察需求。
2. 系統應具有較大的視場，以觀察更廣範圍的物體。
3. 系統應具有較高的分辨率，以分辨細小的物體。
4. 系統應具有較高的對比度，以觀察物體的細節。
5. 系統應具有較高的光學效率，以減少光能損耗。

根據設計目標，本系統採用了以下設計方案：
1. 採用了高品質的光學材料，以確保光學性能。
2. 採用了先進的光學設計技術，以實現高品質的成像。
3. 採用了精密的加工工藝，以確保光學元件的精度。
4. 採用了嚴格的质量控制，以確保系統的質量。

結論：

- 系統的光學性能 $< \lambda/5$ ，the assembly scheme of the objective lens is required to ensure the height of the spot is consistent;
- 系統的放大倍率 $> 95\%$;
- 系統的視場 $< 0.5\text{mm}$;
- 系統的分辨率 > 1.05 。



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□□□□ -1064-140-200	200	140x140	14	208	M85x1
SL-1064-185-255- (16ca)	255	185x185	16	274	M85x1

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Part Description	Expansion Ratio	Input CA (mm)	Output CA (mm)	Housing Dia (mm)	Housing Length (mm)	Mounting Thread
BE-1064-D23:40.5-1.5x	1.5X	10	20.7	27	40.5	M22*0.75
BE4-(1030-1090)-D35:163.9-Z14x	1X-4X	20	35	44	163.9	/
BE4-(1030-1090)-D34:162.6-Z210x	2X-10X	14	34	40	162.6	/

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25.4	6.35	□□□□ @ 1030-10 9 0 □□□□, 45 □□□□□□□ Aoi
30	5	□□□□ @ 1030-10 9 0 □□□□, 45 □□□□□□□ Aoi
50	10	□□□□ @ 1030-10 9 0 □□□□, 45 □□□□□□□ Aoi









重要仪器,
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OptiCentric 300

TRIOPTICS





PerkinElmer Lambda 950---Testing Transmission and Reflectivity



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C E R T I F I C A T E

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>)

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