



MD 50W~200W 单波长风冷半导体激光器

# 使用手册

## 版权说明

“ ”

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## 引语

MD-

## 公司简介

2004

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:  
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# 第一章 特性说明

MD-

910-930nm




>45%

MD

Class 4

## 第二章 安全信息

1-

MD-

910-930nm

2-

1.

2.

LaserVision USA   Kentek Corporation   Rochwell Laser Industries

3-

EN 55011 5009+A1 2010

CISPR 11 5009+A1 2010

FCC Class A

EN 61000-3-2:5006+A1:5009+A2:5009

EN 61000-3-3:5008

EN 61326-1:5006

EN 61000-4-2:5009

EN 61000-4-3:5006+A1:5007+A2:2010

EN 61000-4-4:5004+A1:2010

EN 61000-4-5:5006

EN 61000-4-6:5009

EN 61000-4-11:204

A ICES-5003

EN 61010-1:5001

EN 60825-1:5007

CDRH 21 CFR 1040.10

EN ISO 13849-1 5008+A1 5009 Cat.3 / PL d

	MD-			CE EMC
	" EMC Directive"		EMC	EN55011
EN61326-1	5006	EN55011	1	A
		MD	Class 4	21 CFR
	J 1040.10	d		
			Class 4	EN 60825-
1	9			

4 -

1.

2.

MD -

3.

1

2

3

4

5

6

7

8

9

10

11

4.

1

2

3

4

220VAC

5

6

7

220VAC

5.

1

2

## 5-

Laser Institute of America(LIA)

13501 Ingenuity Drive, Suite 128

Orlando,Florida 32826

Phone:407 380 1553,Fax: 407 380 5588

Toll Free:1 800 34 LASER

American National Standards Institute

ANSI Z136.1, American National Standard for the Safe Use of Lasers

(Available through LIA)

International Electro-technical Commission

IEC 60825-1, Edition 1.2

Center for Devices and Radiological Health

21 CFR 1040.10 - Performance Standards for Light-Emitting Products

US Department of Labor - OSHA

Publication 8-1.7 - Guidelines for Laser Safety and Hazard Assessment.

Laser Safety Equipment

Laurin Publishing

Laser safety equipment and Buyer' s Guides

## 第三章 产品描述

1-

MD-

PC PMMA PVC

1

2

3

4

5

1

2

2-

6

6.3-6.6

3-

MD-50M-YDEA1.0	50M
MD-100M-YBGA1.0	100M
MD-150M-YBGA1.0	150M
MD-200M-YBGA1.0	200M

4-

5-



(OFF/ON)	
(EMERGENCY STOP)	
(START)	
ALARM	
ACTIVE	
POWER	

6-



CTRL	
RS232	RS232
AC 220V	220V
POWER	
OPTICAL OUTPUT	

7-

1

QBH SMA905 D80

QBH



SMA905



D80



## 第四章 详细规格

1 -

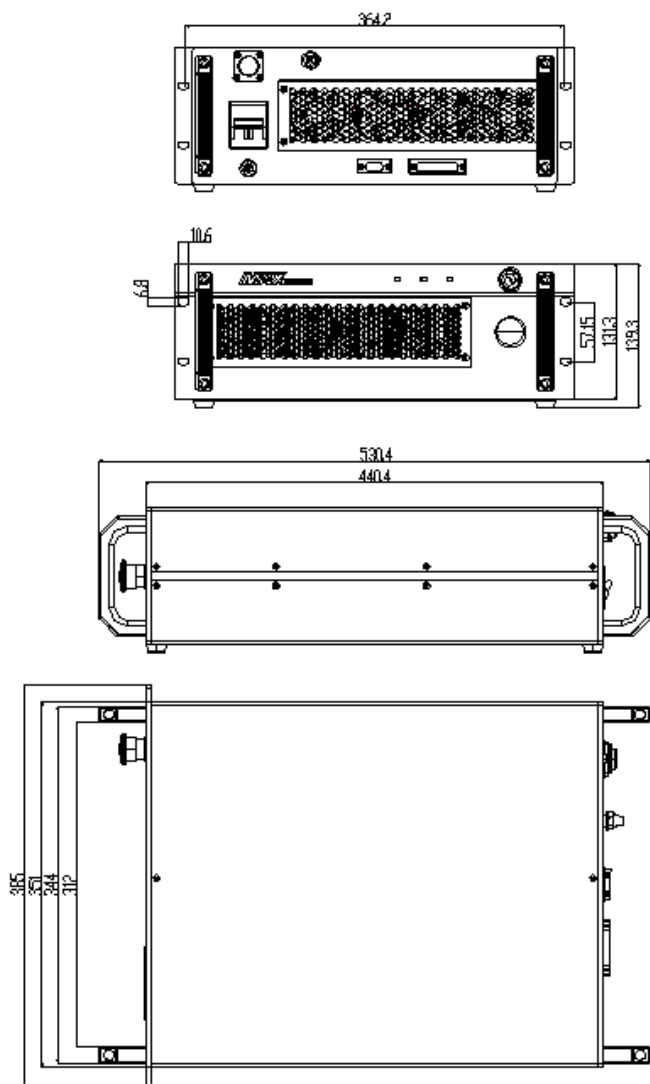
1							
2							
3	MD-50M	100%		50		W	
	MD-100M	100%		100		W	
	MD-150M	100%		150		W	
	MD-200M	100%		200		W	
4			10		100	%	
5		100%	910	920	930	nm	
6	3dB	100%		3	5	nm	
7		100%	>1h		± 1	± 3	%
8		100%	>24h		± 2	± 5	%
9	BPP	100%		20	33	mm x mrad	
10		10%	90%		50	100	μs
11		90%	10%		50	100	μs
12		100%				5	KHz
13		100%		150			μW
14					3		m
15				200-400			μm
16				200			mm
17		SMA905 QBH D80					

2-

1			200	220	240	VAC
2	MD-50M	100%			150	W
	MD-100M				300	W
	MD-150M				400	W
	MD-200M				500	W
3			0		35	
4			10		90	%
5						
6			-10		60	
7	385× 530.4× 139.3					mm
8					16± 2	kg

3-

mm



## 第五章 拆装指南

1-

- 1
- 2
- 3
- >200mm
- 4
- 5
- 6

2-

	MD-50M/100M/150M/200M-YDEA1.0		1
220VAC	3		1
	3.5		1
RS232	RS232		1
			1
U	16 G		1
			4
	MD		1

## 第六章 使用指南

1-

4

2

2-

20A

4



### 3- 扩展接口

1

CTRL

DB25

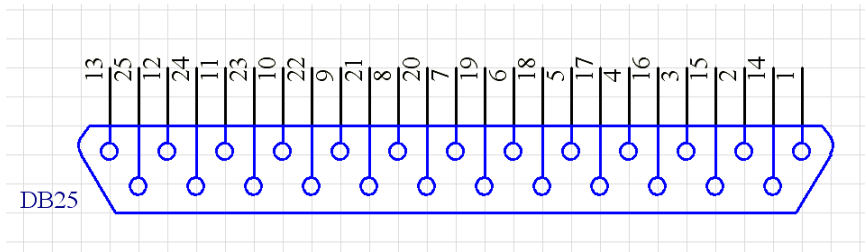
Pin TTL

TTL

 $5 \pm 0.5V$ 

CTRL

Pin#	
1-8 DO-D7	16 0-FF 10 0-255 LSB(D0) Pin1, MSB(D7) Pin8 - 00h(0): - FFh(255): - 00h.
9	Latch
14 15	
18	:
	:
22	/
	- H - L



## 2、数字控制接口 (DB-25) 功能描述

1 DB25 5.2.1

2 Pin1~8 8bit Pin1 LSB Pin8 MSB Pin  
0~255 0~100%

	设置 1	设置 2	设置 3	设置 4	设置 5
1	0	0	0	0	1
2	0	0	0	0	1
3	0	0	0	0	1
4	0	0	0	0	1
5	0	0	0	1	1
6	0	0	1	1	1
7	0	1	1	1	1
8	1	1	1	1	1
	50%	75%	87.5%	93.75%	100%
	35%	65%	85%	92%	100%

3 Pin16 Pin21 2Pin

针 16	针 21	报警指示
L	L	
L	H	
H	H	MO

4 Pin18 Pin18

5 Pin22 " "

## 4- 光纤连接器检查和清洁指南

1.

1

2

3

>99.5%

4

5

6

99.5%

2.

1

" OFF"

2

3

20

4

5

6  
7



5-

1				
2				
3				
4				
5				
6		" ON"		
7	"	"	1-8pin	9pin (5V
)				
1-	"	"	18pin	5V
OV				
2-	"	"	22pin	5V
OV				

6-

1

2

7-

1

U



2 " 50W-200W

.exe"

3 COM



4

8-

1			
2			
4			
5			200-240Vac

## 第七章 服务与维修

1-

2-

400-900-9588

## 第八章 保修声明

1-

2-

1  
2  
3  
4  
5  
6