



MFSC 3000W-4000W

使用手册

版权说明

“ ”

引 语

MFSC

MFSC 3000W-4000W

公司简介

2004

<http://www.maxphotonics.com>



:
: <http://www.maxphotonics.com>
: 400-900-9588
: +86-755-36869377
: info@maxphotonics.com

.....	1
MFSC-	4
	5
1-	5
2-	6
3-	6
4-	7
5-	11
	12
1-	12
2-	12
3-	12
4-	13
5-	13
6-	14
7-	14
	15
1-	15
2-	16
3-	16
4-QBH	17
5-	17


6-	.....	19
		20
1-	.....	20
2-	.....	21
		22
1-	.....	22
2-	.....	22
3-	.....	22
4-	.....	24
5-	.....	24
6-	.....	25
7-	.....	29
		30
1-	.....	30
2-	.....	31
		34
1-	.....	34
2-	.....	34
		35
1-	.....	35
2-	.....	35

第一章 MFSC- 系列激光器 特性说明

MFSC
MFSC
>30%
MFSC
1060nm 1100 nm
Class 4

第二章 安全信息

1 -

MFSC-
4KW

1060nm 1100 nm

2-

1

2

LaserVision USA Kentek Corporation Rochwell Laser Industries

3-

EN 61000-6-4:2007 + A1:2011
EN 61000-6-2:2005 + AC: 2005
EN 61000-3-2:2014
EN 61000-3-3:2013

EN 61010-1:2010

EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

EN 60825-1:2014

CDRH 21 CFR 1040.10

		MFSC	Class 4	EN
60825-1	8			

~~4-~~

1

2

MFSC

3

1

2

3

4

5

6

7

8

9

10

11

12

“

”

4

1

2

3

4

440VAC

5

6

360-

360-440VAC

5

1

2

3

4

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-

MFSC

1

2

3

4

5

1

2

2-

6.3-6.6

2-

6

6.3-6.6

3-

M - F - S - C - XXX - XX	
1 - 2 - 3 - 4 - 5 - 6	
1	M Maxphotonics
2	F Fiber Laser
3	S Single Mode
4	C ContinueWave
5	XXXX XXXX W
6	

4-

5-



MAIN SWITCH	360-440VAC
OFF ON	
EMERGENCY	
START	
ALARM	
ACTIVE	
POWER	

6-



CTRL	
ETHERNET	
AC380	360-440VAC
WATER OUT	1
WATER IN	1

7-

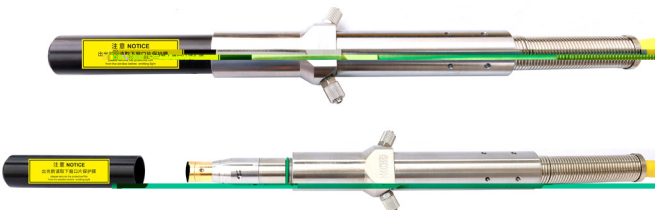
1

QBH

”

“

QBH



第四章 详细规格

1-

1		/				
2						
3	MFSC-3000W			3000		W
	MFSC-4000W			4000		W
4			10		100	%
5		100%	1070	1080	1090	nm
6	3dB	100%		3	5	nm
7		100% >1h		±1	±2	%
8		100% >24h		±3	±5	%
9	BPP	50um-QBH		1.1	1.5	mm · mrad
		100um-QBH		2.8	3.6	mm · mrad
10		10%→90%		100	150	μs
11		90%→10%		100	150	μs
12		100%			5	KHz
13		100%	200			μW
14		50um-QBH		20		m
15		50 100/200				μm
16			200			mm
17		QBH LOC				

2-

1			360	400	440	VAC
2	MFSC-3000W	100%			12	KW
	MFSC-4000W	100%			16	KW
3			10		40	
4			10		85	%
5						
6			-10		60	
7		640*1000*700 W*D*H				mm
8	MFSC-3000W	205±5				kg
	MFSC-4000W	210±5				

3-

1				
2		24	20	
3		≥ 4		bar
4	MFSC-3000	25		L/min
	MFSC-4000	30		
5	MFSC-3000	7.5		kw
	MFSC-4000	10		

40

22

;

 $\Delta p \leq 0.5 \text{ bar}$

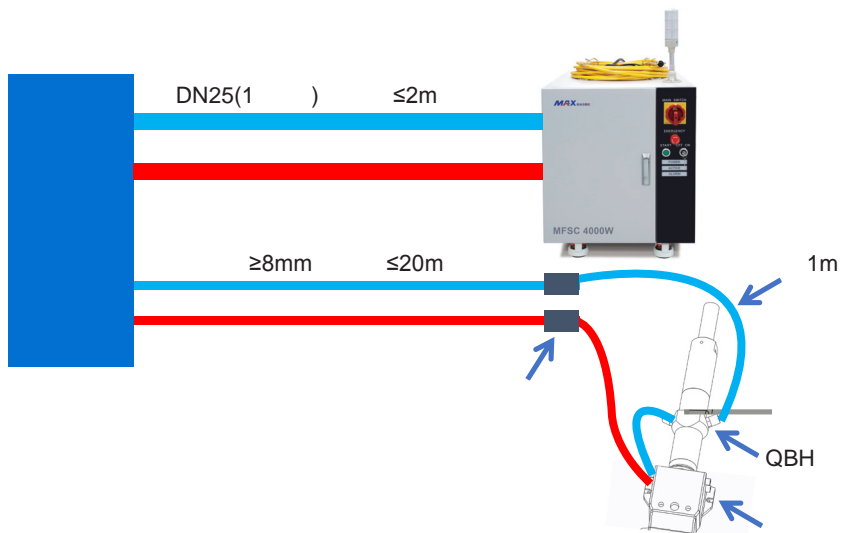
;

0

4-QBH

		L/min	bar	
	* = 6* 4	2	3	28-30

$\geq 8\text{mm}$ $\leq 20\text{m}$;
 QBH $\Phi 6$ $\leq 1\text{m}$;
 QBH ;
 $\Delta p \leq 1.5\text{bar}$



5-

1

1000

- 2 10 - 40
- 3 10% - 85%
- 4

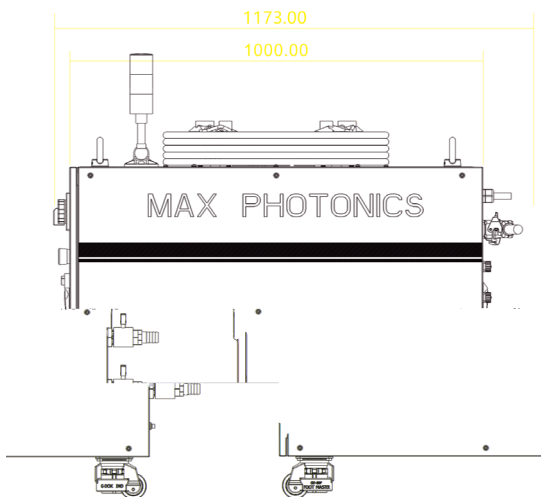
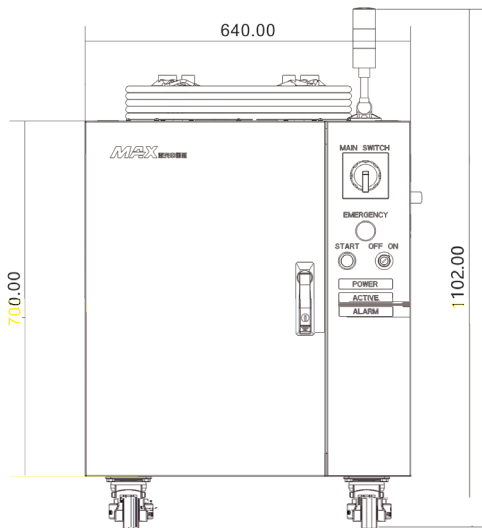
环境温度、相对湿度、露点对照表														
相对湿度%	30	35	40	45	50	55	60	65	70	75	80	85	90	95
环境(°C)	露点Td (°C)													
10	-7.0	-5.0	-3.0	-1.3	0.0	1.5	2.5	3.6	4.8	5.8	6.7	7.6	8.4	9.2
11	-6.5	-4.0	-2.0	-0.5	1.0	2.5	3.5	4.8	5.8	6.7	7.7	8.6	9.4	10.2
12	-5.0	-3.0	-1.0	0.5	2.0	3.3	4.4	5.5	6.7	7.7	8.7	9.5	10.9	11.2
13	-4.5	-2.0	-0.2	1.4	2.8	4.1	5.3	6.6	7.7	8.7	9.6	10.5	11.4	12.2
14	-3.2	-1.0	0.7	2.2	3.5	5.1	6.4	7.5	8.6	9.6	10.6	11.5	12.4	13.2
15	-2.3	-0.3	1.5	3.1	4.6	6.0	7.3	8.4	9.6	10.6	11.6	12.5	13.4	14.2
16	-1.3	0.5	2.4	4.0	5.6	7.0	8.3	9.5	10.6	11.6	12.6	13.4	14.3	15.2
17	-0.5	1.5	3.2	5.0	6.5	8.0	9.2	10.2	11.5	12.5	13.5	14.5	15.3	16.2
18	0.2	2.3	4.0	5.8	7.4	9.0	10.2	11.3	12.5	13.5	14.5	15.4	16.4	17.2
19.2	1.9	4.0	5.7	7.2	8.4	9.8	11.0	12.2	13.4	14.5	15.4	16.5	17.3	18.2
20.2	2.1	2.8	5.0	7.0	8.6	10.2	11.0	12.9	14.2	15.3	16.4	17.4	18.4	19.3
21.2	2.2	3.5	5.8	7.8	9.5	11.0	12.5	13.8	15.2	16.3	17.3	18.4	19.4	20.3
22.2	2.3	4.4	6.8	8.7	10.4	12.0	13.5	14.8	16.2	17.3	18.4	19.4	20.4	21.3
23.1	2.4	5.3	7.7	9.7	11.4	13.0	14.5	15.8	17.0	18.2	19.3	20.4	21.4	22.3
23.9	2.5	6.2	8.6	10.5	12.3	14.0	15.4	16.8	18.0	19.1	20.2	21.3	22.3	23.2
25.1	2.6	7.0	9.4	11.4	13.2	14.8	16.3	17.7	19.0	20.1	21.2	22.3	23.3	24.2
26.1	2.7	8.0	10.3	12.2	14.0	15.8	17.3	18.7	19.9	21.1	22.2	23.2	24.3	25.2
27.1	2.8	8.8	11.2	13.2	15.0	16.7	18.0	19.6	20.9	22.0	23.0	24.2	25.2	26.2
28.1	2.9	9.7	12.0	14.0	15.9	17.6	19.2	20.5	21.3	23.0	24.1	25.2	26.2	27.2
29.1	3.0	10.5	12.9	14.9	16.8	18.5	20.0	21.4	22.8	23.9	25.1	26.2	27.2	28.2
30.1	3.1	11.4	13.8	15.9	17.8	19.4	20.9	22.4	23.0	24.8	26.0	26.9	28.2	29.2
31.1	3.2	12.2	14.7	16.8	18.6	20.3	21.9	23.3	24.6	26.8	27.0	28.1	29.2	30.1
32.1	3.3	13.0	15.6	17.6	19.6	21.3	22.9	24.2	25.6	26.8	28.0	29.0	30.1	31.1
33.1	3.4	13.9	16.5	18.6	20.5	22.2	23.8	25.2	26.5	27.7	29.0	29.5	31.1	32.1
34.1	3.5	14.8	17.4	19.5	21.4	23.0	24.6	26.0	27.3	28.5	29.8	30.3	31.1	32.1
40	25.0	27.0	28.4	29.0	30.9	32.0	33.1	34.1	35.2	36	15.7	18.1	20.3	22.2
49	26.5	27.9	29.5	30.7	31.8	33.0	34.1	35.2	36.2	37	16.6	19.2	21.2	23.2
58	27.4	28.9	30.3	31.5	32.0	33.9	35.1	36.0	37.0	38	17.5	19.9	22.0	23.9
66	28.3	29.8	31.2	32.5	33.8	34.9	36.2	36.8	38.1	39	18.1	20.8	23.0	24.9
76	29.2	30.7	32.1	33.5	34.7	35.8	36.8	38.1	39.1	40	19.2	21.6	23.8	25.8

≤28

≤50%

6-

mm



第五章 拆装指南

1-

1

2

3

“ ”

4

QBH

>200mm

5

1

6

7

2-

1		MFSC-xxxx		1
2				1
3		10m		1
4				2
5	U			1
6				4
7		Φ25.4mm		1
8		26-38		2
9	QBH	6x4mm		1

第六章 使用指南

1-

“ ”
“ ”

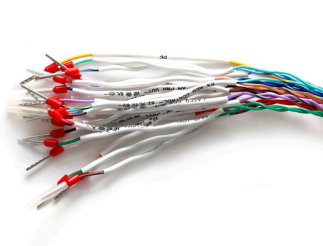
2-

32A

“ ”

3-

CTRL





3000W-4000W 24P

CTRL				
16			+	HIGH:20VDC V 24VDC LOW:0VDC V 5VDC 5mA I 15mA
3			-	
15			+	HIGH:20VDC V 24VDC LOW:0VDC V 5VDC 5mA I 15mA
4			-	
6			+	HIGH:20VDC V 24VDC LOW:0VDC V 5VDC 5mA I 15mA
7			-	
12		DA 0-10V	+	1V-10% 10V-100%
5		DA 0-10V	-	
18			1	ON- OFF- V 30VDC, I 100mA
23			2	
8			+	±
19			-	±
1			+	0V/24V DC I 10mA
2			-	
21			+	HIGH:20VDC V 24VDC LOW:0VDC V 5VDC 5mA I 15mA
14			-	
17			+	HIGH:20VDC V 24VDC LOW:0VDC V 5VDC 5mA I 15mA
24			-	
13			2+	
20			2-	
9			1-	
10			1+	

4-

1

2

3

4

5

(MAIN SWITCH) ON

6

"ON"

7

START

8

3

3

5-

1

2

3

输入

激光调制输入

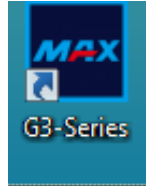
功率输入
0-10V

红光输出

激光输出

3

" G3-Series"



4

RS232

EtherNet

5

" G3-Series"



6

RS232

COM

COM

COM

" "

7

EtherNet

IP2

IP

192.168.0.178

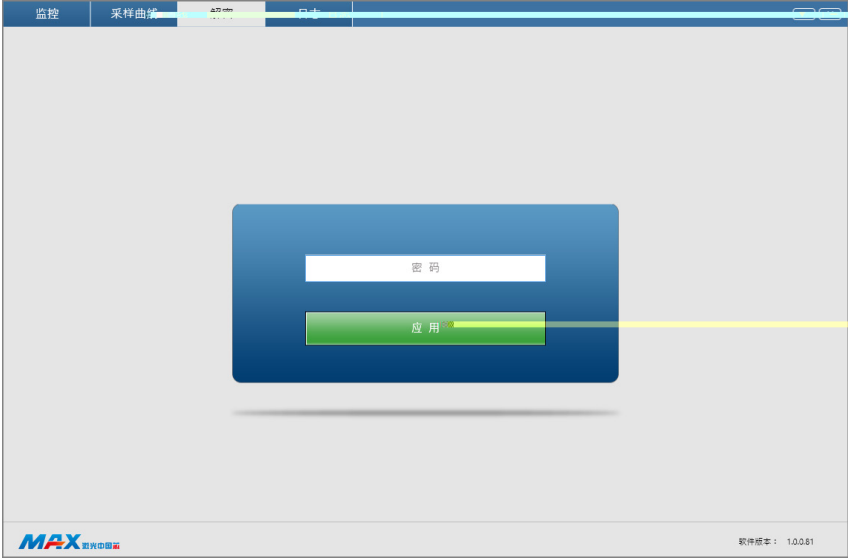
" "



8 " "



9



U

7-

1	PD		
2			
3			
4			"0-10V"DA
5	QBH	QBH	QBH QBH
6			
7			RS232 RS232

第七章 光纤连接器检查和清洁指南

1-

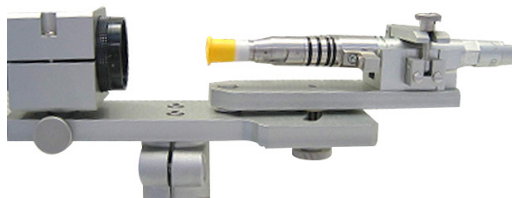
1
2
3
4
5
6
7

2-

- 1 "OFF"
 - 2
 - 3 7-1
 - 4 7-2
 - 5
 - 6
 - 7 QBH
 - 8 7-3
- 14



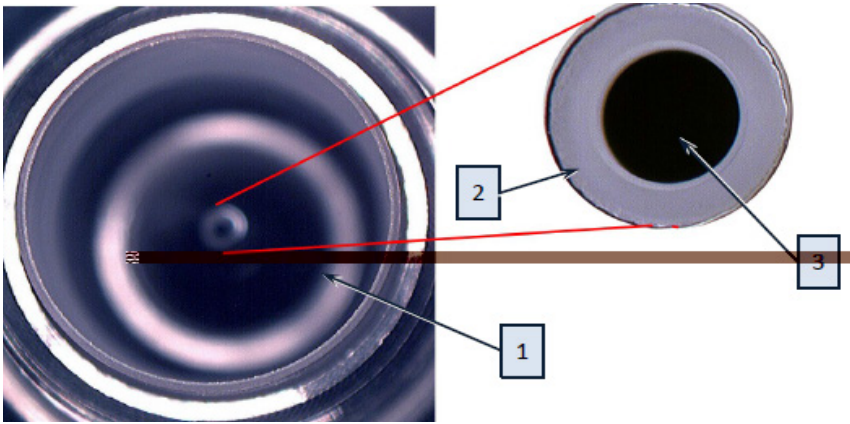
7-1



7-2



7-3

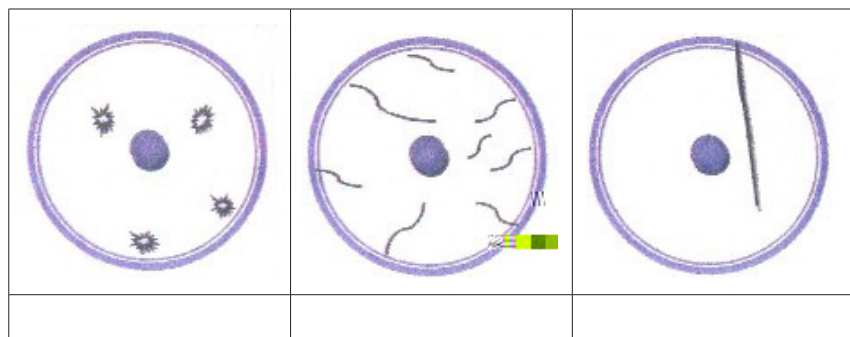


1

2

3

7-4



7-5

第八章 服务与维修

1-

2-

400-900-9588

第九章 保修声明

1-

2-

1
2
3
4
5
6