

TEST REPORT

On Behalf of

Prepared For :	ZHEJIANG RECI LASER TECHNOLOGY CO., LTD.
\(\frac{1}{2}\) Lest'ing \(\frac{1}{2}\) Lest'	Scientific Research Plant No. 2, Jintang North Road No. 2, Eastern New District, Wenling City, Taizhou City, Zhejiang Province, China
Trade Mark :	The feet in the fe
Product Name :	Air cooled fiber laser
Model(s):	FCA1500, FCA1000, FCA2000
Prepared By:	Shenzhen ZTS Testing Service Co., Ltd. 808, Building 1, 7th Industrial Zone, Yulv Community, Guangming District, Shenzhen, Guangdong, China Tel: 400-8788-298 Tel:0755-23245950 Web: www.zts-test.com Temail: zts@zts-test.com
Test Date:	Dec. 23, 2021 – Dec. 29, 2021
Date of Report:	Dec. 29, 2021
Report No. :	ZTS21122308FRS

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen ZTS Testing Service Co., Ltd.



TEST REPORT

IEC 60825-1: 2014

Safety of laser products - Part 1: Equipment classification and requirements

Report

Date of issue...... Dec. 29, 2021

Total number of pages...... 16 pages

Testing laboratory

Street, Guangming District, Shenzhen, Guangdong, China

Testing location...... Same as above

Client

Name...... ZHEJIANG RECI LASER TECHNOLOGY CO., LTD.

Address...... Scientific Research Plant No. 2, Jintang North Road No. 2,

Eastern New District, Wenling City, Taizhou City, Zhejiang

Province, China

Test specification

Standard...... IEC 60825-1: 2014

Test procedure...... Test report

Non-standard test method...... N.A.

Test report Form(s) No...... IEC60825_1E

Test report Form(s) Originator...... ÖVE

Master TRF...... Dated 2014-07

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Test item Description...... Air cooled fiber laser

Trademark...... RECI

Model No..... FCA1500

Additional Model...... FCA1000, FCA2000

Manufacturer ZHEJIANG RECI LASER TECHNOLOGY CO., LTD.

Address Scientific Research Plant No. 2, Jintang North Road No. 2,

Eastern New District, Wenling City, Taizhou City, Zhejiang

Province, China

Rating...... AC 220 ± 10% V, 50/60 Hz



Testing procedure and testing location				
Laboratory name	: Shenzhen ZTS Te	sting Service Co., Ltd	Les Ting Mig Les T	
Testing location/address:		Industrial Zone, Yulv Guangdong, China	Community, Yutang Street, Guangming	
Testing procedure	: TL 🖂 RMT 🗌	SMT WMT	TMP	
Prepared by (Engineer)	: Wilson Bin	Wilson Bin Jesting Way	Nesting Serki	
Tested By (Test Engineer)	: Jeffrey Wang	-14-16-14-14-14-14-14-14-14-14-14-14-14-14-14-	Shenzhen * * Shenzhen * * * * * * * * * * * * * * * * * * *	
Reviewed By (Supervisor)	: Tony Mo	Tony Mo	Approved 2	
			Storting Nip Leging II, Leging Nip Leging II; Leging Nip Leging	



F 7735			
Test	case	ver	dicts

Test case does not apply to the test object : N(A)

Test item does meet the requirement : P(ass)

Test item does not meet the requirement : F(ail)

General remarks:

Summary of testing:

Measurement and classification according to clauses 4 and 5 were applied, other clauses were not considered.

After review, pin b/e of component Q11 were short-circuited under fault condition.

Tests performed

(name of test and test clause):

Clause 4 Classification principles

Clause 5 Determination of the accessible emission

level and product classification

General pro	duct i	intorma	tion:
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Copy of marking plate:



MAX. AVERAGE OUTPUT POWER: 1500 W
WAVELENGTH RANGE: 900-1200 nm
INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT
OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT



Certificate of conformity Product Name: Fiber Laser Product Model: AW1500 Average Power: 1500W Power Supply: AC220V,50Hz Product No: Date of Production: Product No: Wen reciles on an Technical support is provided by Beijing Reci R&D Laboratory Namefactured by Sanke Reci Laser Equipment Namefacturing Co., Ltd. Attention: Please read the User's Named carefully before usage Nade in China

Summary of Testing:

- 1. The product has been tested and found in compliance with IEC 60825-1: 2014.
- 2. The test result complies with the requirements of the relevant standard.



1021 1118 112 162	ting 142 testing 1	IEC 60825-1	Ng lesting Mg Lesting	148 12 Learling 1/2 Learling 1/
Clause	Requirement – Test	ering Nie Learing Nie Learing Nie Lear	Result - Remark	Verdict

4 700 100	CLASSIFICATION PRINCIPLES		
4.3	Classification rules	2 Les tun 1/2 Les tun 1/2 Les	estille Tip Les
4.3 a	Radiation of a single wavelength	Les Les Line IL Les line IL	Test in The Test in P
4.3 b	Radiation of multiple wavelengths	The resting The resting I	N/A
Legins Legins Legins Legins	Laser product emits at two or more wavelengths shown as additive in Table 1	esting Siz Lesting Siz Lesting Siz Lesting Size Lesting S	N/A
118 125 TEST	2) Laser product emits at two or more wavelengths not shown as additive in Table 1	12 Lest 108 112 Lest 108 112 Les (108 112 Les	N/A
4.3 c	Radiation from extended sources (see 5.4.3)	The Leading My Leading My	N/A
4.3 d	Non-uniform, non-circular or multiple apparent source	Cerius 12 Leading 12 L	N/A
4.3 e	Time bases	Lesting My Lesting My Les	The My Les to the My Les
1118 175 TE	1) 0,25 s	12 Lest 1118 112 Lest 1118 112	N/A
esting 1/2	2) 100 s	Class 4	STOSTING THE TESTING PE
Lesting L	3) 30000 s	THE THE LESS THE THE TOST THE	N/A
4.3 f	Repetitively pulsed or modulated lasers	Callun II Learling I'm Learli	N/A
110 12 15 15 15 15 15 15 15 15 15 15 15 15 15	1) Any single pulse	TEST IN 175 TEST IN 175 TES	N/A
	2) Average power for pulse trains	Les Les Line Mis Les Tille Mis	N/A
1251 THE 175	3) Pulse duration t ≤ Ti:	18 The Lear TUR The Lear TUR IL	N/A
	Number of pulses N and C5:	Clus 12 Legins 12 Legins	TIS TESTING IS TESTING
The rest in	3) Pulse duration t > Ti:	Cestille The Leering The Leer	N/A
We The Leaf	Number of pulses N and C5:	Legitur 12 Legitur 12 Leg	STANDANT TEST INDITES TO
4.4	Laser products designed to function as conventional lamps.	12 Lesting 12 Lesting 12 12 Lesting 12 Lesting 12 12 Lesting 12 Lesting 12	N/A
12 152 118 12 152 118 15 152 118	measured at 200 mm distance from closest point of human access (> 5 mrad)	enting The Learning The Learling The Learlin	11/2 Test 11/4 T
To Testing 175	Un-weighted radiance L measured at 200 mm distance (comparison with LT = 1 MWm-2sr-1/) under reasonably foreseeable single fault conditions.	The second of th	N/A
	Evaluation of emission according to IEC 62471 series (optional): Standard applied (IEC 62471 series): Risk Group	on 12 Lesting 12 Lesti	
	Classification of product based on accessible laser radiation (if no laser radiation accessible: Class 1).	Learing Tip Learing	The Its Learing Its Learing Its Learing

2 setime 12 2 setime 12 6 stime 12	DETERMINATION OF THE ACCESSIBLE EMISSION LEVEL and PRODUCT CLASSIFICATION	
5.1		12 12 1851 148
18 715 7051 1118 715 7051 1118 715 70	Compliance under reasonably foreseeable single fault conditions.	Les 14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16
5.3	Determination of the class of the laser product : For Class 1C: vertical safety standard applied with	12 Lest 1118 12 Lest 1118 12 12 Lest 1118 12 Lest 1118 12 12 Lest 1118 12 (Est 1118 12 12 Lest 1118 12 (Est 1118 5



IEC 60825-1			
Clause	Requirement – Test	Result - Remark	Verdict
The resting	requirements for Class 1C.	Cesting Its Lesting Its Lesting Its Lesting Its	Les (10) 12 Les (10) Les (10) 12 Les (10) Les (10) 12 Les (10)
5.4	Measurement geometry	12 Les Tup 12 Les Tup 12 Les Tup	12 152 148 12 162
5.4.1	General Control of the Control of th	12 Lesting 12 Lesting 12 Lesting 12 Lesting	12 10 21 20 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10
5.4.2	Default (simplified) evaluation	THE TIE LESS THE TIE LESS THE TIE LESS	11 12 16 1 P 17
Learing I	Conditions applied:	Condition 3,	291 1118 15 TES PINE
The Leading	Aperture diameter:	Condition 7mm,	Legilla Ile Berry
108 175 Test	Reference point :	Focal point	12 16 108 12 16 16 1
Lestine Ne Lestine Ne Ne Ne Ne Ne Ne Ne Ne Ne Ne Ne Ne Ne N	Measurement distance: (for each condition)	Condition 3: 100mm	175 (
5.4.3	Evaluation condition for extended sources	Le Ting Siz Les Ting Siz Les Ting Siz Les	N/A
175 Testin	Conditions applied:	2 Legilum 12 Legilum 12 Legilum 12	N/A
esting 112 te sting 112 tes Tur 112 test	Most restrictive position: (distance from reference point)	ing 112 Leg ling 113 Leg ling 1	N/A
Leging IL	Angular subtense of the apparent source and C6: (for each condition)	es, ting 813, east ting 813, test ting 82, t	N/A
5.4.3 a	Aperture diameters (for each condition):	Les ing Its Lessing Its Lessing Its	N/A
5.4.3 b	Angle of acceptance (for each condition):	The Legiture 1/2 Legiture 1/2 Legiture 1	N/A

6 est in 17	ENGINEERING SPECIFICATIONS	
6.2	Protective housing	Sting 15 75 65 108 15 75 75 118
6.2.1	General Control of the section of th	Lead line Line Line Line Localing The Leading
200 115 125 125 125 125 125 125 125 125 125	Protective housing prevents access to energy levels in excess of the AEL for Class 1.	
ue 1.12 Leer 1.12 Leeriue 1.12 Leeriue 1.2 Leeriue 1.1 2 Leeriue 1.1 Leeriue 1.12	Protective housing prevents access to energy levels equivalent to Class 4 and withstands exposures under reasonably foreseeable single fault conditions.	Lesting the feeting the feeting the feeting to be the feeting to be feeting the feeting the feeting to be feeting the feeting
the 175 res estine 175 re restine 175 re restine 175	Maintenance of Class 1, 1C, 1M, 2, 2M, or 3R (access to emissions of Class 3B or 4 is prevented).	m 122 Les (1m 122 Les (1m 142 Les (1m 122
Le Les Jun	Maintenance of Class 3B product	N/A
	(access to emission of Class 4 is prevented).	Lesting II Lesting II Lesting II Lesting II Lesting
6.2.2	Service Service	7 ce 1 ce
6.2.3	Removable laser system (laser system complies with requirements of Clauses 6 and 7).	118 12 62 118 12
6.3	Access panels and safety interlocks	esting the testing to testing the testing
6.3.1	Panel is intended to be removed during operation (or maintenance) and would give access to higher energy levels (see Table 13).	The least time the least time the section to the least time time the least time time time time time time time tim
Legaling I	Accessible emission (after removal of the panel)	N/A
	corresponds to product Class	esting the lesting the lesting the lesting
NE TIS TEST	(designated by "X" in Table 13)	Legitum 12
57 ing 175 Te	Emission through the opening if interlocked panel of Class 1, 1C, 1M, 2, or 2M is removed	12



10 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	IEC 60825-1	115 462 100 115 462 200 115 462 15 462 15 462	The Lie Leading Die
Clause	Requirement – Test	Result - Remark	Verdict
12 100 link	(Emission < AEL of Class 1M or 2M).	Selling Lie Leading Mig Leading Mig	12 Leading 112 Leading
12 15 15 15 11 11 11 11 11 11 11 11 11 11		Les 100 112 Les 100 12 Les 100 12 Les 100 1	N/A
	Emission through the opening if interlocked panel of Class 3R, 3B, or 4 is removed	12 Lest 11 12 Lest 11 12 Lest 2 Lest 11 12 Lest 2 Lest 11 18 12 Lest 11 18 12 Lest 2 Lest 11 18 12 Lest 11 18 12 Lest 3 Lest 11 18 12 Lest 11 18 12 Lest 4 Lest 11 18 12 Lest 11 18 12 Lest 4 Lest 11 18 12 Lest 5 Lest 11 18 12 Lest 6 Lest 11 18 12 Lest 7	ng 712 testing 112 testing 112 tes
160, 100 120	(Emission < AEL of Class 3R).	12 10 10 10 10 10 10 10 10 10 10 10 10 10	er The Tag Lear The Tag
The Learning I	Requirements regarding reasonably foreseeable single fault condition.	erne Are Leading Are Leaging Are consisted the construction of the	N/A
6.3.2	Override mechanism	Lezeling Niz Lezeling Niz Lezeling	N/A
esting 112 Les	Behaviour of override in operation when the panel is replaced.	The rest in the rest in the rest	N/A
1621 108 12	Visible or audible warning for override mode.	118 112 Lear 118 112 Lear 118 112 1	N/A
6.4	Remote interlock connector	The In Leaving In Leaving In	N/A
6.5	Manual reset	LERTHW 122 LERTHW 12 LERTHW	N/A
6.6	Key control	Registre No Legiting To Legiti	N/A
6.7	Laser radiation emission warning	12 Leging 12 Leging 12 Leg	21 148 122 1881 148 12
6.7.1	Laser product is a 3R (λ<400 nm; λ>700 nm), 1C, 3B or 4 laser systems.	etus VIZ Lez tus VIZ Lez tus VIZ tus VIZ Lez tus VIZ Lez tus VIZ us VIZ Lez tus VIZ Lez tus VIZ	N/A
6.7.2	Audible or visible warning.	LEST THE ME LEST THE ME LEST THE	N/A
tue 1/2 (Es	Warning is failsafe or redundant.	5 Legiting 1/2 Legiting 1/2 Legiting 1/2 Legiting	N/A
to testing The Lesting The Les	Viewing of the visible warning does not require exposure to emissions > AEL for Class 1M and 2M.	ting the testing the testing the time time the time the time time time the time time time time time time time tim	N/A
6.7.3	Operational control and laser aperture are provided with a warning device when they are separated more than 2 m from warning device.	to lest im No Lest in No Lest Lest im No Lest im No Lest in Lest im No Lest im No Lest im Lest im No Lest im Lest im	N/A
6.7.4	Visible indication of output aperture if laser emission may be distributed through more than one output.	Time 12 Leating 12 Leating 12 Time 12 Leating 12 Leating 12 Time 12 Leating	N/A
6.7.5	Switch for handheld Class 3R device must be depressed for emission (in lieu of emission indicator).	The second of th	N/A
6.8	Beam stop or attenuator	14 12 162 1118 112 1621 1118 112 16	N/A
6.9	Controls	ering 12 testing 12 testing 12	Leefing Le Leefing
6.10	Viewing optics	lesting the lesting the lesting to	N/A
Legenda Viz I cerius Viz Is cius Viz Isal ius Viz Isal	a) Human access to laser radiation in excess of Class 1M prevented when the shutter is opened or attenuation varied.	The sear time 122 Lear time 12	N/A
The Learning The Lasering The L	b) Opening of the shutter or variation of the attenuation prevented when exposure to laser radiation in excess of Class 1M is possible.	Exercise 12 Leading 12	N/A
6.11	Scanning safeguard	12 Legitur 1/2 Legitur 1/2 Legitu	us 12 Les ting 12 Nies
6.12	Safeguard for Class 1C products	172 Les 14 1/2 Les 148 1/2 Les	TIME TES SECTION NES
112 Learing 1. 2 Learing 1. 2 Learing 1. Learing 1.	a) Human access to laser radiation in excess of AEL for Class 1 measured under Condition 3 is prevented.	## 115 - FE 118 115 - FE 118 115 FE 118 FE 1	N/A
eering 112 tearing	b) Human access to laser radiation in excess of AEL for Class 3B measured through 3,5 mm aperture at 5 mm distance from applicator is	The Leading The Leading Species of the Species of the Leading Species of the Spec	N/A



STATE OF TE	IEC 60825-1	14 102 108 14 102 108 14 102	108 12 Leer 108 145 L
Clause	Requirement – Test	Result - Remark	Verdict
12 182 148 1.12	1.2 (4.5) (4	Film 1/2 Les III 1/2 Les III 1/2 Les IIII 1/2 Les III 1/2 Les IIII 1/2 Les III	Les 140 12 Les 140
C 12	prevented.	Leading It Leading It Leading I	N/A
6.13	Walk-in access	12 Les : 44 12 Les : 44 12 Les : 1	N/A
sting 175 te resting 175 te resting 175 t	a) Means provided so that any person inside the housing can prevent activation of Class 3B or 4 laser hazards.	ing 142 lead the high lead the last the light light lead to the light li	Leg 108 12 Leg 108 1. Eggins 112 Legins 1.12 egins 112 Legins 1.12 ggs 108 1.12 Legins 1.12
The leading	b) A warning device provides adequate warning of emission to any person within the housing.	162 1116 112 162 1116 112 162 1111 1 62 1116 112 162 1116 112 124 1116 11 61 1116 112 125 1116 112 125 1116 112	N/A
	c) Where "walk-in" access during operation is intended or reasonably foreseeable, emission of laser radiation that is equivalent to Class 3B or 4 while someone is present inside the enclosure of Class 1, Class 2 or Class 3R product is prevented by engineering means.		N/A
6.14	Environmental conditions	Leating No Leating No Leating	11/2 Les 21/2 1/2 Les
21/10 1/2 LE	- climatic conditions	12 Lezi 148 12 Lezi 148 12 Lezi	108 122 1 STING 122 1
Lesting Lie	- vibration and shock	18 12 Les (14) 12 Les (14) 12 Les	esching I.L. Lesching I.L.
6.15	Protection against other hazards	selve In lestine In Lestine In	162, 148 12 162 148
6.15.1	Non-optical hazards (product safety standard)	Lesting My Lesting My Lesting	N/A
TUR 1/2 LERL	- electrical hazards;	Lesting The Lesting The Lestin	N/A
SELTING PLE L	- excessive temperature;	The leading his leading his lead	N/A
Learing I'm	- spread of fire from the equipment;	14 12 Lesting 1/2 Lesting 1/2 L	N/A
12 1621 148	- sound and ultrasonics;	12 12 12 12 12 12 12 12 12 12 12 12 12 1	N/A
UR THE LESTIN	- harmful substances;	Leading Its Leading N. Leading	N/A
112 LES	- explosion;	Le Leer Tun Tie Leer Tun Tie Leer	N/A
6.15.2	Collateral radiation	The Leading The Lagring The La	N/A
6.16	Power limiting circuit	THE THE LESS THE THE LESS THE THE	CONTRACTOR OF THE STATE OF THE
7	LABELLING	serting The Leading The Leading T	The Learning Lie Learling
7.1	General	Lie Leating Me Leating Me Leating	108 115 Tes
Leering 122	Labels durable, permanently affixed	The Learning The Learning The Long	SCHOOL STATE SECTION STATE
15 TESTINE 175	Labels clearly visible	THE TE LESSING TE LESSING TE	Leat Lug I Leas Bus I
ue Tie Leeving	Reading of labels is possible without exposure to laser radiation in excess of AEL for Class 1.	Legging My Legging My Legging Control of the	N/A
1/48 122 Less	Colour combination	12 Legitur Niz Legitur Niz Legitur	N/A
Lesting IL2	Labelling impractical due to the size or design of the product.	Affix to product	N/A
The Learning	Warning label – Hazard symbol (Figure 3)	STUR IL LESTING IL LESTING IL	5 Test (m) 175 Test (m)
7.2 - 7.7	Text on explanatory label or pictogram (laser class, warning text)	Lesting No Lesting No Lesting Lesting Lesting	N/A
7.8	Aperture label	The Leading The Leading The Lead	N/A
7.9	Radiation output and standards information	108 12 182 108 12 182 108 12 1	Legille 1 Legille 1
12 Lest 100	Max output of laser radiation:	STUB IL LESSING IN LESSING IL	N/A
12 160 FUE	IN THE TENED TO THE TENED TO THE TENED TO THE THE THE TENED TO THE	E. The La Je, the La Je, the	N. 10 10 10 10 10 10

Pulse duration:

Emitted wavelength(s):

Name and publication date of the standard.....:

IEC 60825-1:2014

N/A

Ρ



Clause	Requirement – Test	Result - Remark	Verdict
7.10	Labels for access panels	Leading Siz Leadin	10 12 1= (10)
7.10.1 a) - f)	Labels for panels - warning wording used:	The legiting the l	N/A
7.10.2	Labels for safety interlocked panels - Warning wording used:	etting 12 Learting 12 Learting 12 Learting 1208, Learting 12 Learting 12 Learting 120, Learting 12 Learting 12 Learting 12, Learting 12 Learting 12, Learting	N/A
7.11	Warning for invisible laser radiation:	15 15 15 15 15 15 15 15 15 15 15 16 15 15 15 15 15 15 15 15 15 15 15 15 15	m 175 Perin
7.12	Warning for visible laser radiation:	Les ling My Les ling My Les ling My Le	N/A
7.13	Warning for potential hazard to the skin or anterior parts of the eye - warning wording used:	Not exceed AEL of class 3B	N/A

8	OTHER INFORMATIONAL REQUIREMENTS				
8.1	Information for the user				
stins 175 estins 175 restins 175 festins 175	 a) adequate instructions for assembly, maintenance and safe use and description of the classification limitations, if appropriate. 	11	N/A		
175 TOST 1	b) additional warning for Class 1M and 2M	eding 1/2 legitur 1/2 legitur 1/2	N/A		
eine Tie Lez Tun Tie Lez Un Tie Lez	c) laser beam parameters for radiation above the AEL of Class 1	2 testing 12 testing 1	12 16 2 10 1 12 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Ser THE THE	- Wavelength:	900-1200 nm	Sting 175 55 11 10 PT		
Lear Line	- Beam divergence:	ing The Leading The Leading The	182 194 1 12 182 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	- Pulse pattern: (pulse duration, repetition rate, .)	teeling 1.12 teeling 1.12 teeling 1. Leging 1.12 teeling 1.12 teeling 1. Leging 1.12 teeling 1.12 teeling 1. Leging 1.12 teeling 1.12 teeling 1.12	N/A		
1118 175 L	- Maximum power or energy output:	12 1621 148 172 1621 148 172 1621	N/A		
Leer tunk I Leer tunk II. Leer tunk II.	d) safety instruction for embedded laser products and other incorporated laser products.	108 112 Lesting 122 Lesting 12	N/A		
	e) MPE and NOHD for Class 3B and 4 laser products; For collimated beam Class 1M and 2M lasers the extended NOHD (ENOHD).	Le Les (100 A) Les	N/A		
Learling TL	f) information for the selection of eye protection.	18 The Learning Ing Learning The La	N/A		
15 Testins	g) reproduction of all required labels and warnings.	LINE THE LESS THE THE LESS THE THE	N/A		
115 125 H	h) location of laser apertures	lesting The Lesting The Lesting	115 Testin 115 P		
ing 115 Te	 i) list of controls, adjustments of procedures for operation and maintenance - and warning statement. 	All tenting 112 tenting 122 te	N/A		
	j) information (compatibility requirements) about laser energy source if not incorporated.	ering 12 Leging	N/A		
11 12 12 TE TE	k) additional warning for Class 1, 1M, 2, 2M, and 3R regarding skin or corneal burns.	2 Lest 108 12 Lest 108 12 Lest 10 2 Lest 108 12 Lest 108 12 Lest 10 Lest 108 12 Lest 108 12 Lest 108 Lest 108 12 Lest 108 12 Lest 108	N/A		
Learing N. Learing N. Learing N. Learing N.	I) Information for Class 1C products (e.g. warning that repeated application may pose a risk).	1/10 1/2 Lear 1/2	N/A		
8.2	Purchasing and service information	ting 1/2 Leading 1/2 Leading 1/2	Testing The Testing		
ing 122 to 20	a) safety classification of each laser product stated in all descriptive material (e.g. brochures).	Lesting 12	4 12 62 14 12 6 12 62 14 12 62 12 62 14 12 62		
Learing Tie	b) adequate instructions for servicing available: - warnings and precautions regarding exposure of	# 12 Legins 12 L	N/A		



Clause	Requirement – Test	Result - Remark	Verdict	
M 1/2 Lest 111 1/2 Lest 111	laser emission above Class 1 - maintenance schedule - list of controls and procedures that could increase accessible emissions - description of displaceable parts - protective procedures for service personnel - reproduction of labels and hazard warnings	teer time the teer time to be come to the time to be come to the time to be come to be c		

9	CTS		
9.1	Applicable other parts of the standard series IEC60825		
8 175 Testin 18 175 Test 18 175 Test	IEC 60825-2 (Safety of optical communication systems)		
STINE 175	IEC 60825-4 (Laser guards)	ms 175 resting 175 restin N/A res	
Testing Vitorians	IEC 60825-12 (Safety of free space optical communication systems used for transmission of information)	N/A	
9.2	Medical laser products: Class 3B and Class 4 medical laser products comply with IEC 60601-2-22	N/A	
9.3	Laser processing machines: Comply with IEC/ISO 11553 series.	N/A	
9.4	Electric toys: Comply with IEC 62115	N/A	
9.5	Consumer electronic products: Comply with IEC 60950 (IT-equipment) or IEC 60065 (AV equipment)		



Clause	Requirement – Test	100 N. Lest 100 N. Lest, 100 N.	Result - Remark	Verdict

Object / part No	Manufacturer/ trademark	Type / mode	Technical data	Standard	Mark(s) of conformity
CO2 Laser Tube	Reci Laser	Lesting 1/2 Lesting 1/2 Seting 1/2 Lesting 1/2 Supplied Lesting	AC 220±10%V, 1080±3nm	IEC 60825- 1:2014	Test with equipment

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.



1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IEC 60825-1	\$ 175 Feeting 175	
Clause	Requirement – Test	The Learning Nie Lear	Result - Remark	Verdict

CT11 30	the said said the said said the said said. The said said the said said the said said.	162 108 172 162 108 1	12 Leg (UR 1.12)	des, the NG Les, the NG Les, the NG Les, the NG Les, the Les, the Les, the NG Les, the N
100	easurements (default met	15 1 15 1 15 1 15 1 15 1 15 1 15 1 15	1/2 Les Tue 1/2	Legitum N. Legitum N. Legitum N. Legitum N. Legitum N. Legitum N. Legitum
Mea	surement geometry (Table 11): 15 Test 114 15 Test	148 12 1551 148	The real time the real time the real time the real time the teach
Condition1				
Condition3				Note to be time the testing the testing the testing the testing the
Wav	velength(nm)	2 703 1118 175 703 1118 1	17 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1080
Aperture diameter (mm)				Les la
Measurement distance (mm)				100 = 100 = 1
Mea	surement under normal condi	tion:	Legitur IIZ Leg	17 (401) - 401 -
Emis	ssion level expressed in	<u>Symbol</u>	Unit	Measured value
Irrad	iance	The Leading The Leading	W/m ²	2 Lest ling Its Lest ling Its Lest ling Its Lest ling Its Lest
Radi	ant power	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W	1510W
Radiant exposure		Sering 12 Hering 12	J/m ²	12 12 182 118 12 182 183 12 183 12 183 118 12 183 118 12 183 118 112 183 118 112 183 118 118 118 118 118 118 118 118 118
Radiant energy		Learling In O Learling In	1 6 10 10 10 10 10 10 10 10 10 10 10 10 10	= 100 12 Lealing 12 Le
Mea	surement Value	The Tie Learning Tie Lear	148 142 Legins	To resting to resting to resting to resting to resting to re-
No.	single-fault condition:	SELING TIE LARGETUR TIE	Lear Line The Lear	
175	Parting Its Learing Its Learing Its	Legitur Tiz Legitur IL	12 Lezi lue 112 L	testing Nic Lesting Nic Lestin
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Not 1. N	e: ormal supply voltage: 220±10 ⁰	%V to the test which	is supplied b	by the client.
	lax. obtainable radiant power dition.	1500W is used for th	e classificatio	on of this laser product under this measurement

Summary:

The emission level of this laser product is greater than Class3B, so the product laser safety level is Class 4.



Photo:



Photo 1



Photo 2





Photo 3



Photo 4





Photo 5

**** END OF REPORT ***