

Test Report

Report No: **GZES211103147401**

Date: **2022-01-07**

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant : Shanghai Xiyin Technology Co., Ltd.
Building C, No.888, Huanhu West 2nd Road, Special Area of China (Shanghai)
Pilot Free Zone, Shanghai, China

Manufacturing location (factory): Same as applicant.

Test object : Solid State Lidar

Model : CS20

Test specifications / Test standard : EN 61010-1:2010 + A1: 2019

Purpose of examination : Test according to the test specification.

Test result : In the opinion of SGS-CSTC the presented appliance was found to be in compliance with the test specification.

Remark : Throughout this report a comma is used as the decimal separator

Anlay Dong
Project Reviewer
Safety Laboratory

Ben Tang
Project Engineer



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1. Function / Description :

Solid State Lidar is a device with image sensor used for measuring three-dimensional information of object and space.

It powered by DC via Type-C terminal.

Plastic and glass enclosure was fixed by glue and indoor used only.

2. Test item particulars :

Ratings	5 Vd.c., 0,5 A
Type of item	Measurement
Description of equipment function	Measure three-dimensional information
Connection to mains supply	None
Overvoltage category	Powered by DC
Pollution degree	2
Means of protection	Class III
Environmental conditions	Ambient: -10 – +50 °C
For use in wet locations	No
Equipment mobility	Movable
Operating conditions	Continuous
Overall size of equipment (W x D x H)	48mm x 34mm x 12mm
Mass of equipment (kg)	0,033
Marked degree of protection to IEC 60529	N/A



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3. Label :

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

<p>Shang Hai XiYin Technology Co., Ltd.</p> <p>Product Name: Soild State Lidar</p> <p>Part No. : CS20</p> <p>Serial No. : XXXXXXXXXXXXX</p>	<p>CLASS 1 LASER PRODUCT</p> <p>RoHS</p>
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Remark:

1. The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.
2. As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trademark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.



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4. Test :

The test was done in the Electrical Safety Laboratory of SGS-CSTC in Guangzhou.

These tests fulfil the requirements of standard ISO/IEC 17025.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

The max. recommended ambient temperature is 50 °C declared by manufacturer.

Input voltage: 5 VDC.

Possible test case verdicts:

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

Test item does meet the requirement : P(ass)

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

Testing :

Date of receipt of test item : 2021-11-15

Date(s) of performance of tests : 2021-11-18 – 2022-01-04



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Clause	Requirement	Remarks	Verdict
4	Tests		P
5	Marking and documentation		P
6	Protection against electric shock	Powered by 5,0 VDC via Type-C terminal which voltage is below the limits of clause 6.3, no electric shock hazard	N/A
7	Protection against mechanical HAZARDS	No sharp edges	P
8	Resistance to mechanical stresses		P
9	Protection against the spread of fire	Powered by 5,0 VDC via Type-C terminal which consider as limited-energy circuit	P
10	Equipment temperature limits and resistance to heat		P
11	Protection against HAZARDS from fluids		N/A
12	Protection against radiation, including laser sources, and against sonic and ultrasonic pressure	Class 1 laser product, refer to EN 60825-1 report No. GZEE210900250431	P
13	Protection against liberated gases and substances, explosion and implosion		N/A
14	Components and subassemblies		P
15	Protection by interlocks		N/A
16	HAZARDS resulting from application		N/A
17	RISK assessment		N/A
Annex A	Measuring circuits for touch current (see 6.3)		N/A
Annex B	Standard test fingers (see 6.2)		N/A
Annex C	Measurement of CLEARANCES and CREEPAGE DISTANCES		N/A
Annex D	Parts between which insulation requirements are specified (see 6.4 and 6.5.3)		N/A
Annex F	ROUTINE TESTS		N/A
Annex H	Qualification of conformal coatings for protection against POLLUTION		N/A
Annex K	Insulation requirements not covered by 6.7		N/A



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5.1.3c)	TABLE: MAINS supply				Form A.2	N/A
	Marked rating.....:		--	V		—
	Phase.....:		--			—
	Frequency.....:		--	Hz		—
	Current.....:		--	A		—
	Power.....:		--	W		—
	Power.....:		--	VA		—
Test No.	Voltage [V]	Frequency [Hz]	Current [mA]	Power		Comments
				[mW]	[VA]	
1	--	--	--	--	--	--
NOTE – Measurements are only required for marked ratings.						
Supplementary information:						



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6.7	TABLE: Insulation requirements- Clearances and Creepages					Form A.15				N/A		
6.2.2	Examination					6.5.4	Protective impedance				—	
6.4.2	ENCLOSURES and protective barriers					6.5.6	Current- or voltage-limiting device				—	
6.4.4	Impedance					9.6.1	BASIC INSULATION between opposite polarity				—	
Area	Location (See Form A.14)	Insulation type (NOTE 1)	WORKING VOLTAGE (NOTE 2)			Clearance		Creepage		CTI	Verdict	Comments
			RMS [V]	Peak [V]	Frequency [kHz]	Required [mm]	Measured [mm]	Required [mm]	Measured [mm]			
--	--	--	--	--	--	--	--	--	--	--	--	--
NOTE 1 – refer to Form A.14 for type of insulation shown in the insulation diagram used for definition of required insulation (see Form A.14)										NOTE 2 - to be		
Input supply voltage.....:		--	V	--	Hz							
Supplementary information:												



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Test Report

Report No: GZES211103147401

Date: 2022-01-07

6.7	TABLE: Insulation requirements- Clearances and Creepages						Form A.16			N/A		
6.4.2	ENCLOSURES OF PROTECTIVE BARRIERS						9.6.1	Overcurrent protection basic insulation between MAINS parts			—	
8	Mechanical resistance to shock and impact						10.5.1	Integrity of CLEARANCES and CREEPAGE distances			—	
Area	Location (See Form A.14)	Insulation type	Mechanical tests (NOTE)					Test at max.	Measured after test (if required)		Verdict	Comments
			Applied force	Rigidity (8.2)		Drop (8.3)		RATED ambient	Clearance	Creepage distance		
			N	Static (8.2.1)	Impact (8.2.2)	Normal (8.3.1)	Hand-held/ Plug-in	(10.5.1)	mm	mm		
--	--	--	--	--	--	--	--	--	--	--	--	
NOTE – Refer to Form A.18 for dielectric strength tests following the above tests.												
Supplementary information:												



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10.	TABLE : Temperature Measurements			Form A.26A	P	
10.1	Surface temperature limits – NORMAL CONDITION and / or SINGLE FAULT CONDITION				P	
10.2	Temperature of windings – NORMAL CONDITION and / or SINGLE FAULT CONDITION				P	
10.3	Other temperature measurements				P	
Operating conditions:		Normal operation				
Frequency	-- Hz	Test room ambient temperature (ta) .. :		25 °C		
Voltage	5 V	Test duration..... :		1 h 52 min		
Part / Location		t_m [°C]	t_c [°C]	t_{max} [°C]	Verdict	Comments
PWB surface (near U1)		32,0	57,0	130	P	
PWB surface (near U2)		33,2	58,2	130	P	
PWB surface (near U3)		28,9	53,9	130	P	
PWB surface (near U4)		33,2	58,2	130	P	
Glass enclosure surface (top)		28,1	53,1	80 + (50-40) = 90	P	
Plastic enclosure surface (bottom)		28,4	53,4	85 + (50-40) = 95	P	
<p>NOTE 1 - t_m = measured temperature $t_c = t_m$ corrected ($t_m - t_a + 50$ °C max. RATED ambient) t_{max} = maximum permitted temperature</p> <p>NOTE 2 - see also 14.1 with reference to component operating conditions</p> <p>NOTE 3 - Record values for NORMAL CONDITION and / or SINGLE FAULT CONDITION in this Form use additional form if necessary</p> <p>NOTE 4 - see Form A.26B for details of winding temperature measurements</p>						
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5. Component List

object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity ¹⁾
Metal enclosure	Interchangeable	Interchangeable	alloy, min. thickness: 1,0 mm	--	UL (E56070)
PWB	Shenzhen Jia Li Chuang Technology Development Co LTD	JLC-2	V-0, 130 °C	--	UL (E479892)
Alt.	Interchangeable	Interchangeable	Min. V-1, 130 °C	--	UL
Laser module	Vertilite, Inc.	P35940S2G003	Operating Voltage (Vop): 2,14 V Operating Current (Iop): 3,5 A Wavelength(λ): 940 nm	EN 61010-1: 2010 + A1	Tested with appliance



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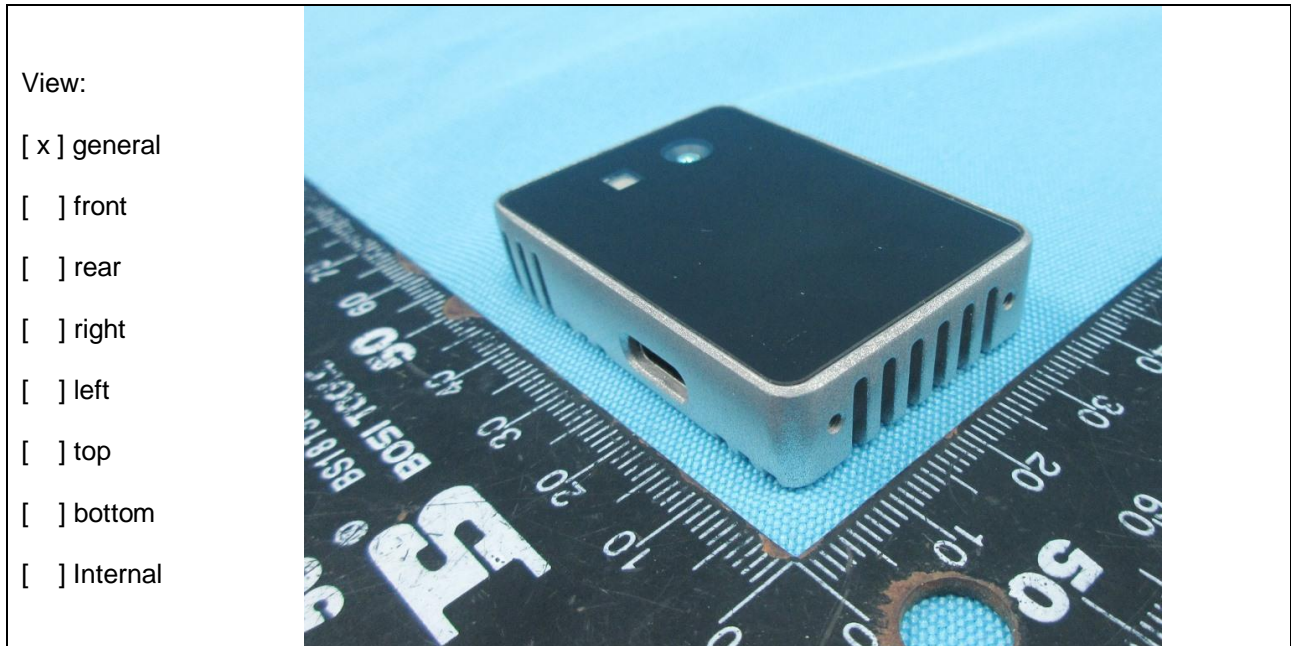
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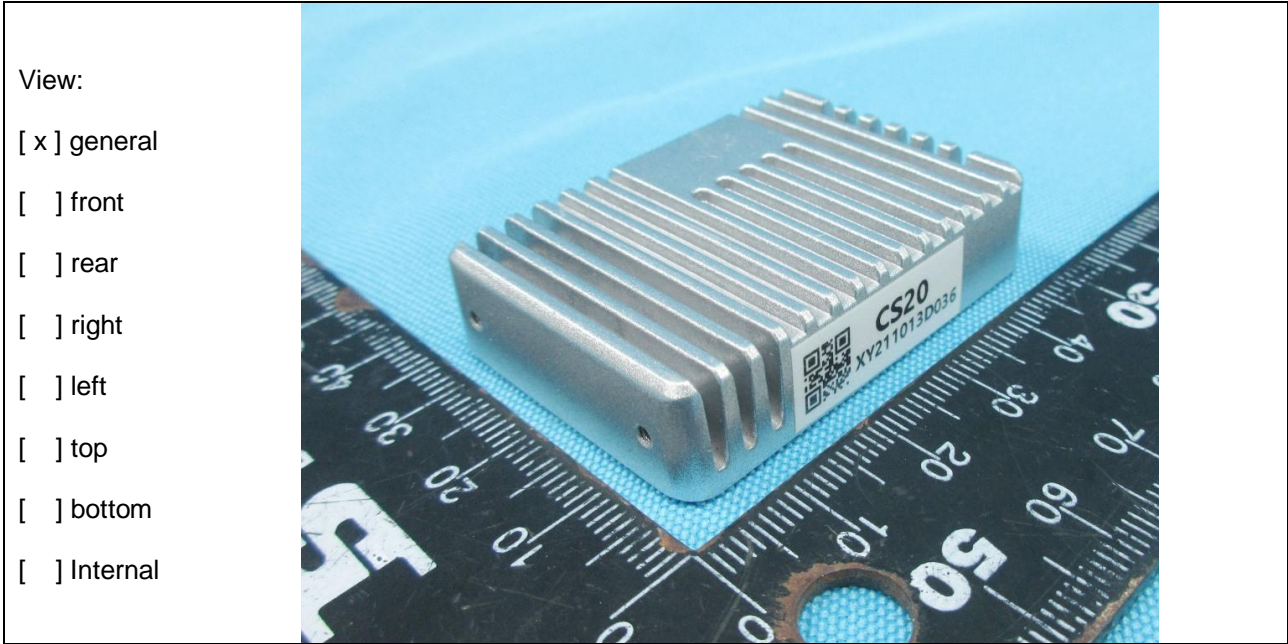


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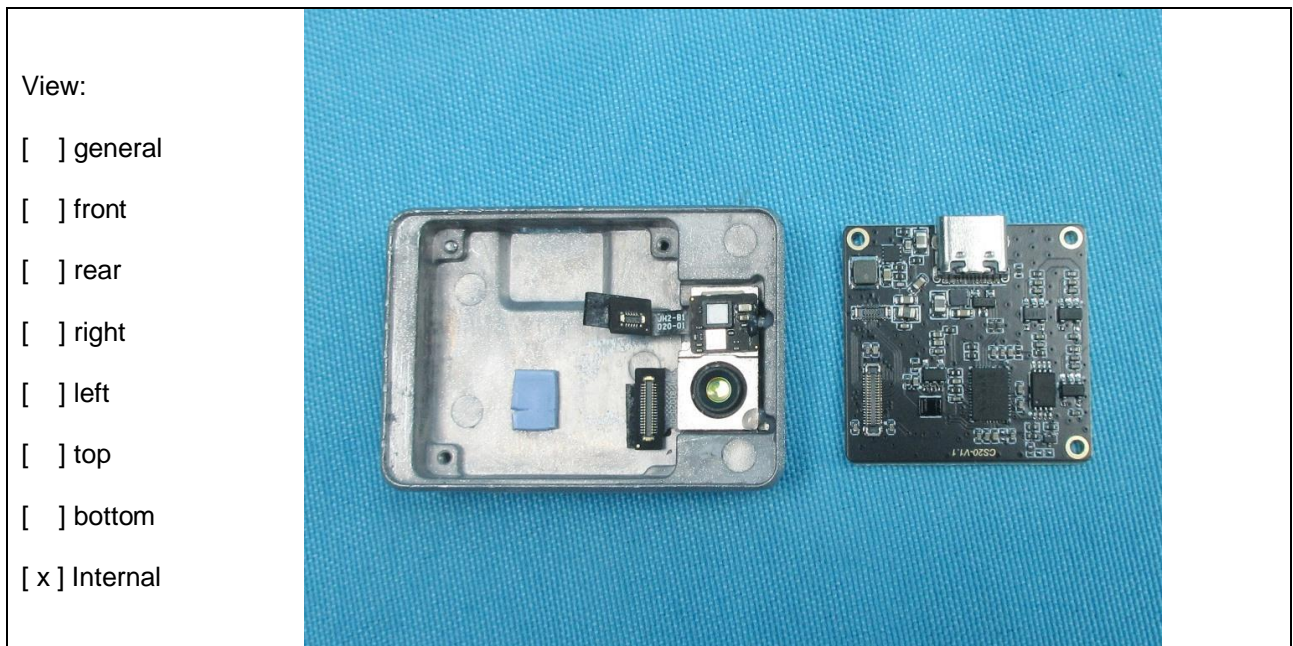
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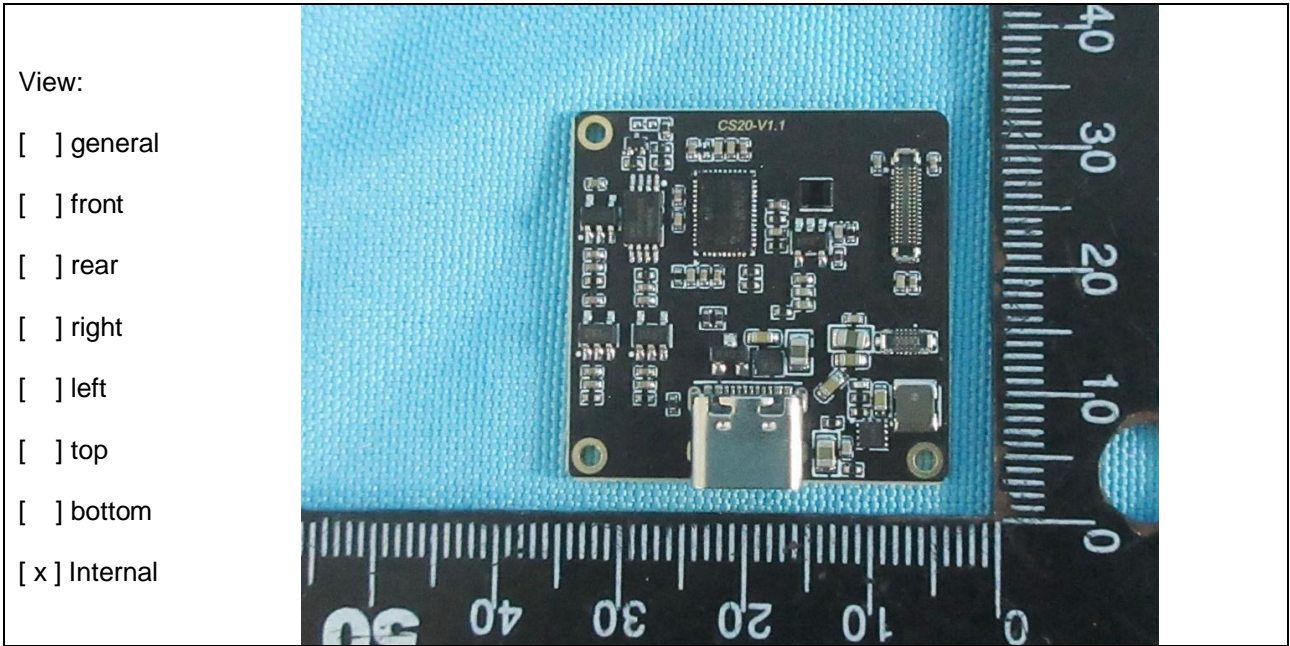
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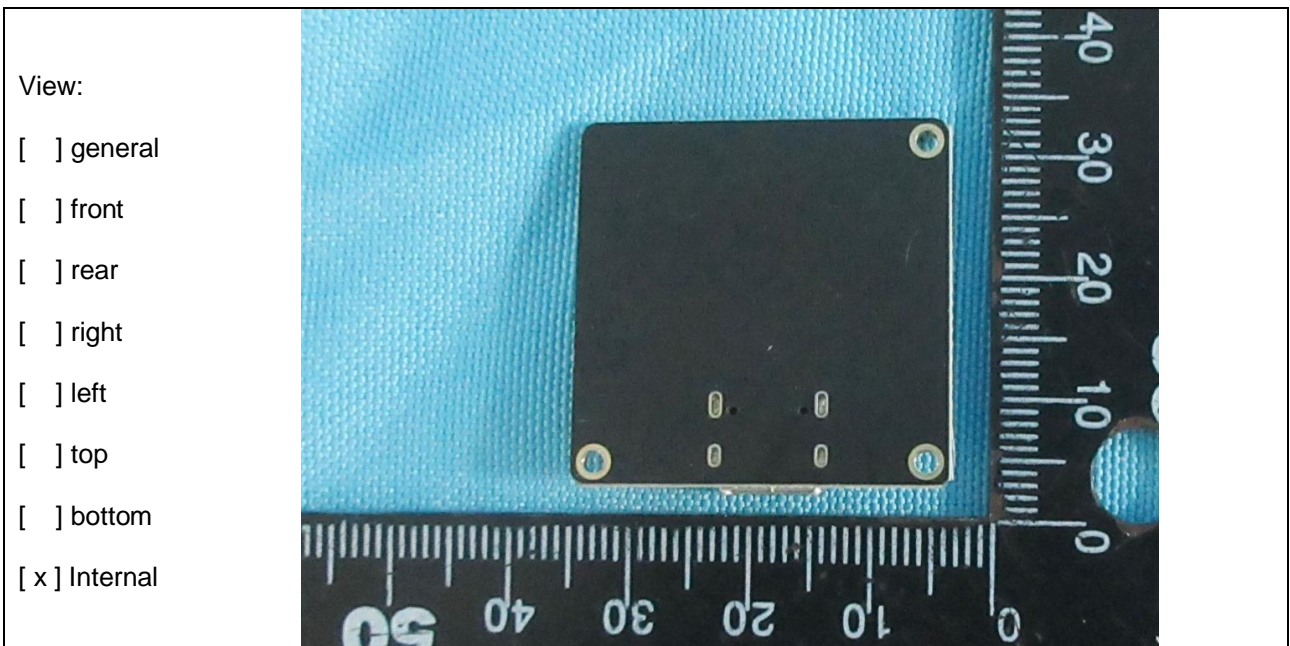
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NOTES TO THIS TEST REPORT

1. The following language(s) of marking(s) and instruction sheets were submitted during the test application:
 - English
 - Throughout this report a comma is used as the decimal separator.

According to the standard, instruction sheets and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. The applicant should ensure that the product in future production fulfils the receptive standard requirements.

2. The components performed satisfactorily during testing and are considered to be suitable for use in the sample tested. Acceptances of the safety critical components and materials were based on:
 - the certification record(s) and/or test report submitted by the applicant; or
 - component / material tested with the appliance
3. Plug (and socket) used in this product must be compiled with the local plug and socket regulation of the respective country.

--- End of Report ---



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