

# Test Report

## For searchlight S50

### I. Purpose

Test the all function of S50 as per the test plan of TP - 618

### II. Scope

S50 - Long range searchlight

### III. Test Environment

Refer to the requests of various tests

### IV. Test Equipment

multi-meter, luminance measurement, DC charger, electronic scale, tape, calipers, salt fog equipment, temperature test chamber.Vibration table, Dust test equipment

### V. Test Result

No.	Test Item	Requirement	Test data	Test result	Remark
1	Weight	≤3.5 kg(Including Guide slot)	2.39 kg	PASS	
2	Immersion	IPX7, 1 meter water depth for 30 min	OK	PASS	
3	Dust test	IP5X, 8h	OK	PASS	
4	Range	5000 m	5568 m	PASS	

5	Packaging drop	Height of 76 cm and drop with package	OK	PASS	
6	Salt Fog	Exposed in the salt fog in 48 hours, then dry it to test the function.	All function works normal	PASS	
7	Low Temp.	-30 ° C	OK	PASS	
8	High Temp.	+70° C	OK	PASS	
9	Vibration	MIL-STD-810G Figure 514.6C-2 - Category 4 - Composite two-wheeled trailer vibration exposure	OK	PASS	
10	Dimension	Bezel diameter $\leq$ 108 mm	106mm	PASS	
		Length $\leq$ 267 mm	255mm		
11	Anodizing	25-35.6 $\mu$ m	30 $\mu$ m	PASS	

## VI. Test result

Pass

## VII. S50 Test Data Record

1. Weight

2. Dimension

3. Range

4. IP5X

5. Immersion

6. Transit drop

7. Salt Fog

8. Low Temperature

9. High Temperature

10. Vibration

11. Anodizing

S50 TEST DATA RECORD

TEST 1, Weight

Date: 2019-10-30

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Data				
	SN: 1#	SN: 2#	SN:	SN:	SN:
Weight:	2390g	2389g			

Remark:

S50 TEST DATA RECORD

TEST 2, Dimension

Date: 2019-10-30

Test Performed By: MF QC1

Test Verified By: MF QC2



Serial Number	Data (mm)		Pass/Fall
	Length	Bezel diameter	
1#	255	106	P
2#	255	106	P

Remark:

S50 TEST DATA RECORD

TEST 3, RANGE

Date: 2019-10-21

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Lux at 50 meters	100% power	3210	3100			
Converted into Range	100% power	5665	5568			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:.

S50 TEST DATA RECORD

TEST 4, Charging time and Runtime

Date: 2019-10-15

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test Operation	Operational	P	P			
Pre-test Check	No Damage	P	P			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:

No dust enters the body after the test



S50 TEST DATA RECORD

TEST 5, IMMERSION

Date: 2019-10-26

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test Operation	Operational	P	P			
Pre-test Check	No Damage	P	P			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:



S50 TEST DATA RECORD

TEST 6, Materiel to be packaged DROP

Date: 2019-6-27

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail (P/F)				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test operation	Operation	P	P			
Pre-test check	No-damage	P	P			
Front	1 drop	Pass	Pass			
Back	1 drop	Pass	Pass			
Top	1 drop	Pass	Pass			
Bottom	1 drop	Pass	Pass			
Left side	1 drop	Pass	Pass			
Right side	1 drop	Pass	Pass			
After-test operation	Operation	P	P			
After-test check	No-damage	P	P			

Remark:

S50 TEST DATA RECORD

TEST 7, SALT FOG

Date: 2019-10-28

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test Operation	Operational	P	P			
Pre-test Check	No Damage	P	P			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:

S50 TEST DATA RECORD

TEST 8, LOW TEMPERATURE

Date: 2019-7-2

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test Operation	Operational	P	P			
Pre-test Check	No Damage	P	P			
Low temperature Operation	Function	P	P			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:

S50 TEST DATA RECORD

TEST 9, HIGH TEMPERATURE

Date: 2019/6/21

Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test Operation	Operational	P	P			
Pre-test Check	No Damage	P	P			
High temperature Operation	Function	P	P			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:

S50 TEST DATA RECORD

TEST 10, Vibration

Date: 2019-10-29

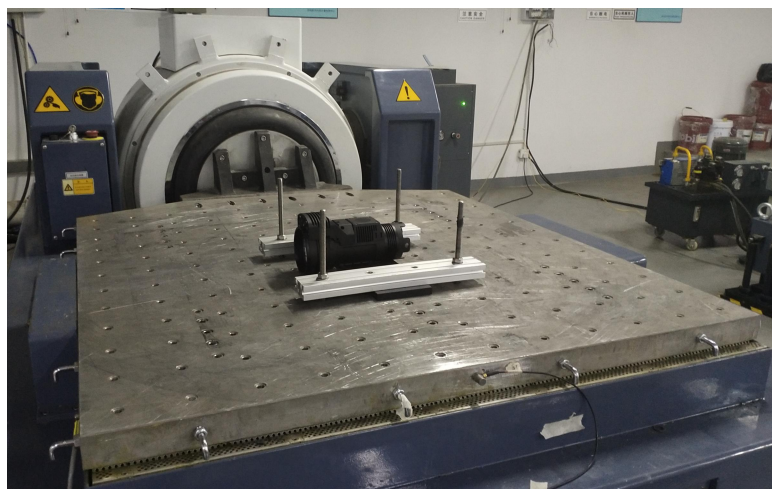
Test Performed By: MF QC1

Test Verified By: MF QC2



Parameter	Specification	Pass/Fail				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Pre-test Operation	Operational	P	P			
Pre-test Check	No Damage	P	P			
After-test Operation	Operational	P	P			
After-test Check	No Damage	P	P			

Remark:



TEST DATA RECORD

TEST 11, ANODIZED COATING



Date: 2019-9-26

Test Performed By: MF QC1

Test Verified By: MF QC2

Parameter	Specification	Data(um)				
		SN: 1#	SN: 2#	SN:	SN:	SN:
Coating Thickness	25.4-35.6um	30	28			

Remark: