## ANALYTICAL LABORATORIES PVT. LTD.



Lab: Reliable House, 125 Indian Corporation, Dapoda Road, Mankoli Naka, Bhiwandi, Thane - 421302, Maharashtra (INDIA) Phone: 02522 - 662907 / 662908 / 07400084589 / 7400084590 Website : www.reliablelabs.org, E-mail : info@reliablelabs.org

	TEST REPORT
	(CUSTOMISED TESTING)
Test Report Number:	RAL/THW/E024020036
Report issue date (DD/MM/YYYY:	07/06/2024
Total number of pages:	13
Test Report Issuing Lab	Reliable Analytical Laboratories Pvt. Ltd.
Testing / Witness Testing Location.:	Bldg. No. 125-139, Indian Corporation Complex,
Address	Mankoli, Gundwali, Bhiwandi.
Location of Performance of Testing.:	Bldg. No. 125-139, Indian Corporation Complex, Mankoli, Gundwali, Bhiwandi.
Customer / Applicant'sname:	Reliance Retail Ltd
Address	Reliance Corporate Park, Ghansoli Naka, Thane Belapur road, Nav Mumbai -400701
Discipline	: Electronics
Product Group	: Audio/ Video & Similar Eleptronics Apparatus
Test specification:	
Standard	N/A
Non-standard test method	As per Customer Specifications
Test Report Form No	
Version	/ / / / / / / / / / / / / / / / / /
Test item description	LED TV (LED Television size 50")
Trade Mark	. 4
Manufacturer	Reliance Retail Ltd
Model/Type reference:	50U-E5530
Ratings	AC 100-240V~, 50/60Hz
	Sonali Dhongade
Tested by (Name + Signature+	Sonali Dhongade (Sr. Engineer)
Function)	(S. Z. S.
Reviewed & Authorized by (Name +	Onkareshwar Pandey
Signature + Function):	(Tech. Manager)
	ration testing for safety, performance and and the dis-

An independent organization testing for safety, performance, and certification.

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Registered Office: Reliable Analytical Laboratories Pvt. Ltd.
Bldg. No. 125-139 Indian Corporation Complex, Mankoli, Gundwali, Bhiwandi

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#### General product information:

The Equipment under test (EUT) is a LED TV SIZE 50" for use in general home environment and for indoor use only. Appliance inlet is considered as the disconnect device and the apparatus is considered as class II.

Testing.....

Condition of Sample Received....... Good

Sample Identification no(s)...... 50U-E5530

Sample Serial no(s).....

Date (s) of performance of tests......: 15/02/2024 to 07/06/2024

Laboratory conditions:

Ambient Temperature...... 23±4°C

Relative humidity ...... 55±10%

Possible test case verdicts:

- test case does not apply to the test object.........: N/A

- test object does meet the requirement ......P (Pass)

#### General remarks (If any):

The test results presented in this report relate only to the sample tested.

This report shall not be reproduced, except in full, without the written approval of report issuing testing laboratory.

Reliable is responsible only for reporting measured value (results). Rest information is reported as provided by customer.

#### Remarks:

Please refer to individual test verdict for Compliance for each test.

#### Possible test case verdicts:

- test case does not apply to the test object.........: N/A
- test object does meet the requirement ......P (Pass)
- test object does not meet the requirement ............ F (Fail)



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#### **Test Condition:**

Sr. No	Test	Test condition	Observation	Verdict
1	ESD test	Video signal at ambient temperature, Standard Mode Check Air as well as contact discharge to all input ports. (10Kv contact & 12Kv air)	As given below	P

Note:-

Category A: - No degradation in performance or loss of function during and after the test.

Category B: - Allowable temporary degradation during the test. Self recovers after the test. No change in operating state or stored data is allowed.

Category C: - Temporary loss of function or degradation in performance the correction of which requires operator intervention.

Category D: - EUT malfunctions and fails to recover.

S.No	Area	Points	Air/Contact	Mode	Voltage	Times	Remarks
1			Contact	Stand by	± 10 (KV)	30	Α
2	External Accessible	Control Button	Air	Stand by	± 12 (KV)	30	Α
3	points	Control Button	Contact	Operation	± 10 (KV)	30	А
4			Air	Operation	± 12 (KV)	30	Α
5		Top Center	Contact	Operation	± 10 (KV)	10	Α
6		Bottom Center	Contact	Operation	± 10 (KV)	10	Α
7	Metal Cabinet	Left Center	Contact	Operation	± 10 (KV)	10	Α
8		Right Center	Contact	Operation	± 10 (KV)	10	Α
9		Center	Contact	Operation	± 10 (KV)	10	Α
10	Open Cell	Top Left	Contact	Operation	± 10 (KV)	10	Α
11		Top Right	Contact	Operation	± 10 (KV)	10	Α
12		Top Center	Contact	Operation	± 10 (KV)	10	Α
13		Center Left	Contact	Operation	± 10 (KV)	10	Α
14		Center Right	Contact	Operation	± 10 (KV)	10	Α
15		Center Center	Contact	Operation	± 10 (KV)	10	Α
16	*	Bottom-1	Contact	Operation	± 10 (KV)	10	Α
17		Bottom-2	Contact	Operation	± 10 (KV)	10	Α
18		Bottom-3	Contact	Operation	± 10 (KV)	10	Α
19		Bottom-4	Contact	Operation	± 10 (KV)	10	Α
20		Bottom-5	Contact	Operation	± 10 (KV)	10	Α
21		Bottom-6	Contact	Operation	± 10 (KV)	10	Α
22		Bottom-7	Contact	Operation	± 10 (KV)	10	Α
23		Bottom-8	Contact	Operation	± 10 (KV)	10	Α

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Thane

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24		Bottom-9	Contact	Operation	± 10 (KV)	10	Α
		Tuner	Contact		± 10 (KV)	194	B(During the test lining observed on the display for very short duration and it automatically recovered
25	-		A :-	Operation	10.000	10	back)
26			Air	Operation	± 12 (KV)	10	Α
27	-	HDMI-1	Contact	Operation	± 10 (KV)	10	A
28	-		Air	Operation	± 12 (KV)	10	Α
29		HDMI-2	Contact	Operation	± 10 (KV)	10	Α
30			Air	Operation	± 12 (KV)	10	Α
31		HDMI-3	Contact	Operation	± 10 (KV)	10	Α
32			Air	Operation	± 12 (KV)	10	Α
33	All Ports Signal	USB-1	Contact	Operation	± 10 (KV)	10	B(During the test lining observed on the display for very short duration and it automatically recovered back)
34			Air	Operation	± 12 (KV)	10	Α
35		USB-2	Contact	Operation	± 10 (KV)	10	B(During the test lining observed on the display for very short duration and it automatically recovered back)
36			Air	Operation	± 12 (KV)	10	Α
37		Earphone Out	Contact	Operation	± 10 (KV)	10	B(During the test TV turn of and automatically turn on.)
38			Air	Operation	± 12 (KV)	10	A
39	1	0.0.15	Contact	Operation	± 10 (KV)	10	A
40		Optical Out	Air	Operation	± 12 (KV)	10	A
41	uical La	LAN	Contact	Operation	± 10 (KV)	10	B(During the test lining observed on the display for very short duration and it

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Pad



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	12								autor recov back	7.7.7.
		42				Air	Operation	± 12 (KV)	10 A	
			Port Groun	d	Tuner	Contact	,	± 10 (KV)	B(Du test li obse the d very durat autor recov	ved on splay for short ion and it natically ered
		43					Operation		10 back	
		44				Air	Operation	± 12 (KV)	10 A	
2		Line	surge	type : L-N L voltage : ±1	KV ±2KV ±4K\		ard statue	Unit function test.	onally ok after th	e P
				counter : 10			34	9		
3		16 Hou		16 Hours + 8	- 10°C , set in OFF condition for duration of 16 Hours + 8 Hours recovery. As per IS 10662			Unit function test.	еР	
4		Low Voltage test (80VAC)		Video signal at 45 deg C temperature ,Standard Mode Set is continuously ON at 80 V ac with all controls max. Duration: 168 Hrs.			Unit is fund the test.	ctionally ok after	P	
5				at 45 deg C temperature, Standard Mode auously ON at 300V ac with all controls max. 8 Hrs.			Unit is fund the test.	Р		
6		Dry Heat At 50°C		The second secon	At 50°C , set in OFF condition  Ouration: 16 Hours + 8 Hours recovery				ctionally ok after	Р
7		Dust As per IEC6 chamber test		As per IEC60	C60529, 13.4 (Dust chamber enclosure )			Unit is fund the test.	ctionally ok after	Р
8		Humidity test RH 95%, 40°C set in On condition Duration: 8 HrOn, 16 Hr recovery Test period will be 30 days				Unit is functionally ok after the test		Р		
9		Bun	np Test	500 Bumps,	500 Bumps, 1 bump /sec @Height 25mm			Unit is fund the test.	ctionally ok after	Р
1	0	Wal	l mount		to three times the weight of the product / 150N is more is suspended on the hook for 72 Hrs.			300N Appl No damag	, Р	
1	1	Vibration Sine vibration on x Shield Duration : 1 Hr/axis oscillations/min			n on x , y & z axis. Hr/axis. Accelerati	Frequency : 5-	-250Hz ,		ng properly duri	ng P
				THE PARTY OF THE P						

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12	Drop Test	Check Drop test det	tails sheet				Unit is functionally ok after	Р
		(Refer drop test She	eet for test S	SOP &	report format) a	is per	the test	
		ISTA 2Astandard				K.	· · ·	
		Drop Procedure	Sequence #	Orientation	Specific face, edge or corner			
		1 4	1	Corner	most fragile face-3 corner, if no	t known, test 2-3-5		
			2	Edge	shortest edge radiating from the	corner tested		
		-	3	Edge	next longest edge radiating from	the corner tested		
		Edge 1-2	4	Edge	longest edge radiating from the corner tested	/		
			5	Face	one of the smallest faces			
			6	Face	opposite small face			
		5 Manufacturer's Joint	7	Face	one of the medium faces			
			8	Face	opposite medium face			
		3 Corner 2-3-5	9	Face	one of the largest faces			
			10	Face	opposite large face			



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Oud

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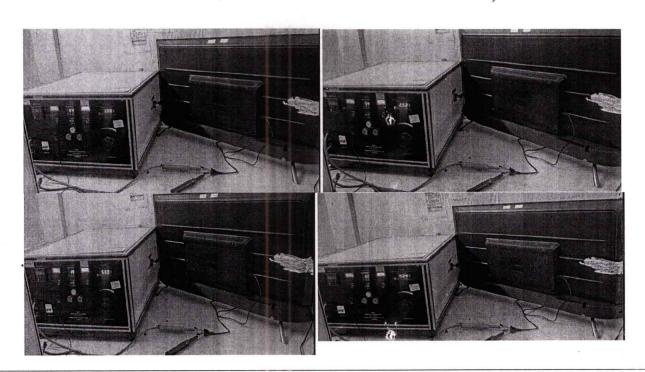


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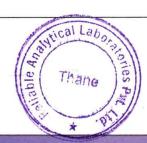
#### Photograph:



Setup for ESD test



Setup for Line surge Test



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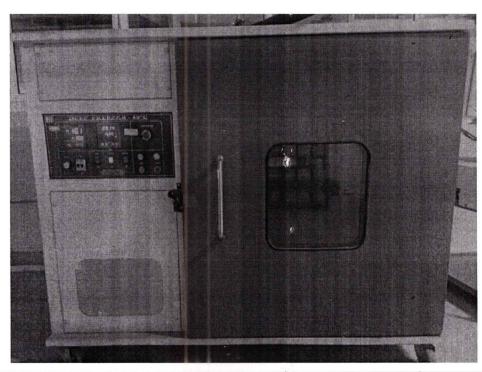
Test Report No.: RAL/THW/ EO24020036

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Setup for Cold test



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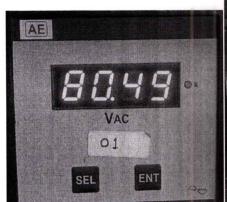
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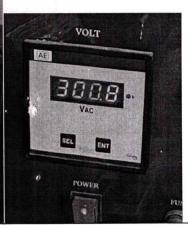
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Setup for Low Voltage test (80VAC)





Setup for High Voltage test (300VAC)



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Gud



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Setup for Dry Heat Test



Setup for Dust chamber test



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Setup for Humidity test



**Setup for Bump Test** 



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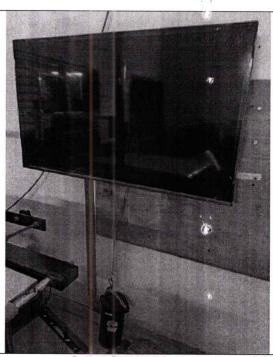
Test Report No.: RAL/THW/ EO24020036

and

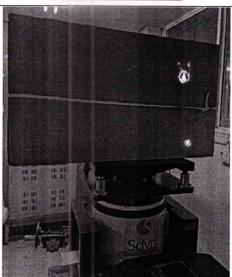
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Setup for Wall mount



Setup for Vibration Shield



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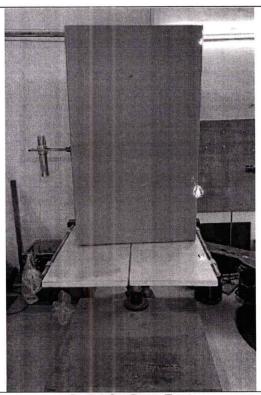
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Setup for Drop Test

\*\*\*END OF TEST REPORT\*\*\*



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