Test Report

Customer Company & Address:			
Company Name:	HEFEI EILEEN GRAYS SMART TECHNOLOGY CO LTD		
Address:	Rm 1707-1710 block D Weilan Business port Qianshan Rd Zhengwu District Hefei,Anhui CHINA		
Contact Person:	Bruce	**Email:**	bruce@ihomeadore.com
Telephone:	13505697184	**Fax:**	N/A

Manufacturer:	Zhongshan Fengmei lighting & Electrical Ltd
Country of Origin:	China
Country of Export:	USA
Brand Name:	PARROT UNCLE、IHOMEADORE、MATRIX DECOR、FLINT GARDEN、VACZON、PERIMOST
Product Description:	Ceiling Fan
Representative (Tested) Model:	F3502
Model Number:	F3502, F3502***110V, F3502*** ("*" can be a character or blank)
Model Differences:	Color
Electrical Specification:	120V/60Hz

Test Laboratory & Address:			
UL Verification Services (Guangzhou) Co., Ltd. Address: Room 101,201,301,501,502,503, Building A1, Nansha Science and Technology Innovation Center, No. 25, South Huanshi Avenue, Nansha District, Guangzhou China 511458			
Telephone:	+86 20 28667188	**Fax:**	+86 20 83486605

Receipt of Test Samples	2020-06-12	**Test Period**	2020-06-09

Handle By	Approved By
Xian Zhuo Zheng / Xianzhuo Zheng	/ Liny Lan
Test Personnel Name & Signatory	**Approval Name & Signatory**

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Testing Regulation

☑ DOE	DEPARTMENT OF ENERGY Office of Energy Efficiency and Renewable Energy 10 CFR Parts 429 and 430 [Docket No.EERE-2013-BT-TP-0050] RIN: 1904-AD10
☐ CEC	CEC-400-2017-002 California Code of Regulations,Title 20,Sections 1601 through 1608
☐ ES	ENERGY STAR Program Requirements - Product Specification for Residential Ceiling Fans - Eligibility Criteria Version 4.1
☐ NRCAN	Amendment 16 to the Energy Efficiency Regulations, 2016: SOR/2019-163 was published in Canada Gazette Part II on June 12, 2019 for Airflow of Ceiling Fans

Statement of Results

Test Flow	Test Method	Sample ID (Lab)	Sample Serial No.	Pass/Fail/NA
Ceiling Fan Energy Efficiency Testing	Appendix U to Subpart B of Part 430 – Uniform Test Method for Measuring the Energy Consumption of Ceiling Fan	3108043	N/A	Pass
		3108044	N/A	

Deviation from Test Method *(if any)*

N/A

Remark *(if any)*

1. The measurement result for the sample received are according to the Accuracy Method decision rule.
2. As client declare, cases in which safety standards would be violated by the use of the reversible mode ,so this ceiling fan not include a reversible switch.
3. This report test data trace to report: 13376829-1a. Add new model：F3502***110V, F3502*** and brand: IHOMEADORE、MATRIX DECOR、FLINT GARDEN、VACZON、PERIMOST.

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Test Flow : Ceiling Fan Energy Efficiency Testing

1. Test Equipment

Equipment ID	Equipment Name	Last Calibration Date	Calibration Due Date
GVS-LE-CF001	Power Meter	2019-07-19	2020-07-18
GVS-LE-CF002	Digital Tachometer	2019-07-21	2020-07-20
GVS-LE-CF003	Tem.& Hum.& Atm. Record	2019-07-19	2020-07-18
GVS-LE-CF004	Distance Measure Meter	2019-07-25	2020-07-24
GVS-LE-CF005	Chamber	2019-07-21	2020-07-20
GVS-LE-CF007	Rotating Sensor Arm System	2019-07-21	2020-07-20
GVS-LE-CF009～020	Air Speed Sensor	2019-10-16	2020-10-15

2. Test Sample Information

Product Description	Ceiling Fan		
Representative (Tested) Model	F3502		
Light Kit Model Number	N/A	Number of Blades	3
Motor Model Number	153*12	Number of speed control settings:	3
Fan Size(inch)	36	Blade Pitch Angle(°)	20
Speed Control Type/Model No.	Remote Control	Downrod Length(inch)	4
Blade Description	Curved Surface	Mounting Method	Standard Only
Blade Weight(g)	180g/pc	DOE Products Category	LSSD
Blade Edge Thickness(inch)	0.13	Flow-Direction Control Type/Model No.	See Remark
Blades Lowest Point to Ceiling(inchs)	Standard: 10.25		

3. Test Result

Standard Mounting Method

Sample ID	Measured Airfow(CFM)			Measured Power(W)				Efficiency (CFM/W)
	High	Medium	Low	High	Medium	Low	standby	
001	2821.42	/	1927.60	41.89	/	19.83	0.27	74.42
002	2728.43	/	1914.06	42.00	/	19.84	0.27	72.53
Average of Sample	2774.93	/	1920.83	41.94	/	19.83	0.27	73.47
LCL/0.9 for Airflow	2924.21	/	2111.09	/	/	/	/	78.41
UCL/1.1 for Power	/	/	/	38.46	/	18.07	0.25	/
Represented Value	2774.93	/	1920.83	41.94	/	19.83	0.27	73.47
Minimum Efficiency(CFM/W)	61.43							
Result (Pass/Fail)	Pass							
FTC EnergyGuide Label Information								
Weighted-Average Airflow CFM_{ave}	2375							
Energy Use W_{ave}	32							
Estimated Yearly Energy Cost($)	9							
Efficiency(CFM/W)	73							

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4. Test Data

LSSD+Standard -001

Sample ID	001	Tested Date	2020/6/9	Tested By	Chuxian
Room Temp.(^{0}C)	20.4	Relative Humidity(%)	48.0	Barometric Pressure(PSI)	14.6
Low Speed Testing Model					
Max. RPM	163	Min. RPM	154	Voltage(V)	119.93
Frequency(Hz)	59.989	Power P1(W)	19.83	Current(A)	0.3173

Sensor #	Sensor Dist. From Center (inch)	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)
		A	B	C	D			
1	0	113.50	101.16	94.14	135.90	111.17	0.0873	9.71
2	4	286.73	252.63	131.55	230.95	225.46	0.6981	157.39
3	8	328.68	304.32	301.46	405.01	334.86	1.3963	467.57
4	12	178.49	213.92	306.92	347.99	261.83	2.0944	548.37
5	16	80.76	128.46	201.69	233.24	161.04	2.7925	449.70
6	20	42.78	76.12	103.01	115.95	84.47	3.4907	294.86
Total Air Flow of Low Speed(CFM)								1927.60

High Speed Testing Model					
Max. RPM	206	Min. RPM	197	Voltage(V)	119.92
Frequency(Hz)	59.990	Power P2(W)	41.89	Current(A)	0.3749

Sensor #	Sensor Dist. From Center	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)
		A	B	C	D			
1	0	185.74	161.09	156.82	209.76	178.35	0.0873	15.57
2	4	480.48	421.32	242.97	350.74	373.87	0.6981	261.00
3	8	504.10	477.02	540.73	640.77	540.66	1.3963	754.92
4	12	261.91	318.72	429.79	513.59	381.00	2.0944	797.97
5	16	115.99	208.78	227.19	313.90	216.46	2.7925	604.48
6	20	65.90	119.70	107.19	151.23	111.00	3.4907	387.48
Total Air Flow of High Speed(CFM)								2821.42

Standby Testing Model			
Voltage(V)	120.02	Frequency(Hz)	59.990
Power P0(W)	0.27	Current(A)	0.1415

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LSSD+Standard -002

Sample ID	002	Tested Date	2020/6/9	Tested By	Chuxian
Room Temp.(^{0}C)	20.5	Relative Humidity(%)	50.0	Barometric Pressure(PSI)	14.6
Low Speed Testing Model					
Max. RPM	161	Min. RPM	151	Voltage(V)	120.01
Frequency(Hz)	59.990	Power P1(W)	19.84	Current(A)	0.3164

Sensor #	Sensor Dist. From Center (inch)	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)
		A	B	C	D			
1	0	120.26	105.13	94.01	104.11	105.88	0.0873	9.24
2	4	304.74	263.39	151.93	185.08	226.28	0.6981	157.97
3	8	320.07	311.41	330.28	368.21	332.49	1.3963	464.26
4	12	177.39	218.46	303.65	319.19	254.68	2.0944	533.39
5	16	82.39	135.59	181.14	235.81	158.73	2.7925	443.25
6	20	45.00	81.28	88.74	135.54	87.65	3.4907	305.94
						Total Air Flow of Low Speed(CFM)		1914.06

High Speed Testing Model					
Max. RPM	205	Min. RPM	197	Voltage(V)	120.07
Frequency(Hz)	59.990	Power P2(W)	42.00	Current(A)	0.3749

Sensor #	Sensor Dist. From Center	Velocity in FPM - Axis #				Average Vel. (FPM)	Circle area (sq. Ft.)	Air Delivery (CFM)
		A	B	C	D			
1	0	179.92	153.29	165.62	188.80	171.92	0.0873	15.01
2	4	466.24	407.90	276.80	332.15	370.77	0.6981	258.84
3	8	495.39	467.95	545.28	600.85	527.36	1.3963	736.35
4	12	248.95	312.95	392.36	487.04	360.32	2.0944	754.65
5	16	111.01	208.72	196.91	307.95	206.15	2.7925	575.66
6	20	66.60	127.00	97.90	153.04	111.13	3.4907	387.92
						Total Air Flow of High Speed(CFM)		2728.43

Standby Testing Model			
Voltage(V)	120.08	Frequency(Hz)	59.989
Power P0(W)	0.27	Current(A)	0.1412

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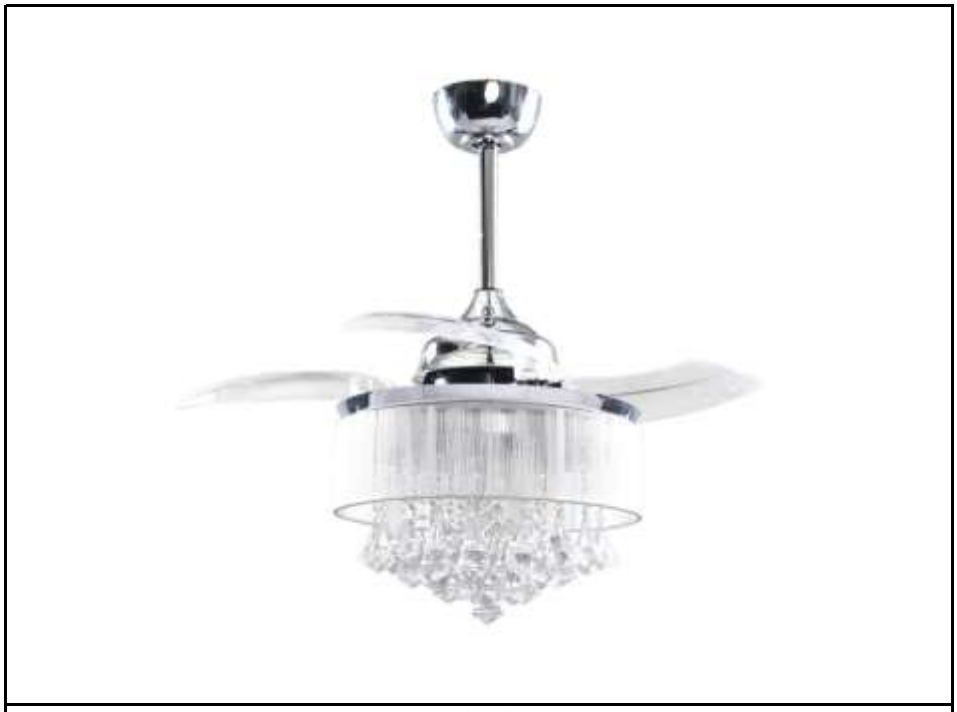
5. Test Sample Photo(s)



Sample Photo

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