

Serial No	Description	Specifications	Compliance/Remarks
A Sensors			
1	No of microphones	115 digital MEMS microphones or higher is preferred	
2	Frequency band	8 kHz to 58 kHz or higher	
3	Sound pressure sensitivity	Should Detect minimum a 0.3 g/hr leak at 4 bar	
4	Operation distance range	Minimum coverage should be 0.3 to 100 meters (1ft to 330 feet)	
5	Acoustic Field of View	Minimum 180 deg or better	
B Built-in digital Camera			
6	Optical Field of View (FOV)	Minimum 160 deg Horizontal and 160deg Vertical or better	
7	Focus	Auto Focus or better	
8	Zoom	Minimum 4X Zoom in camera or better	
9	Camera Views	Fish Eye View of minimum 160deg for pit lane operation	
10	Camera Resolution	Minimum 13MP or 1280 X 1080 or better	
11	LED Lights	Minimum 6 LED Lights of 1400 Lumens or higher	
C Display			
12	Display Size	Minimum 5" LCD with Backlight under sunlight readable & sunshade	
13	Display Resolution	800 X 480 or better	
14	Display Frame rate	Minimum 30fps or better	
15	Display Brightness	Adaptive Screen Brightness	
D Image Storage			
16	Storage capacity	SD Card of minimum 256GB and expandable upto 2TB or higher	
17	Image format	JPEG or better	
18	Video format	MP4 or better	
19	Video length	minimum 45mins or higher	
20	Voice Notes	minimum 45mins or higher	
21	Digital data export	Data transfer to Laptop via Wifi or Bluetooth	
E Software			
22	Grouping & Tagging	On device Coach & Rake grouping & tagging (of photos & videos) is required. Coach number should be allowed to be entered in Remarks The device should be able to tag all images & videos of one rake and make independent groups for different coaches in the software	
23	Leak values	Leak estimation for Air has to be in Grams/hr. Other units are optional	
24	Self-diagnostic notification	Realtime Health check button on touch screen is necessary. Health Check of Video Processor, Acoustic Processor & Microphone Array is necessary	
25	GPS Tracking	Device should have im built GPS module for tracking	
F Battery			
26	Batteries	Rechargeable Li-ion (field-replaceable, rechargeable) of 3300mAh or better	
27	Battery life	minimum 5-6 hours or better	
28	Battery charging time	not more than 2.5 hours	
G General Specifications			
29	Device Handling	Single Hand Operation Only. Double hand operation not suitable for working conditions	
30	Relative humidity	0 % to 100% non-condensing is required	
31	Weight (battery included)	not more than 1.5 kg	
32	Ingress Protection (IP)	Minimum IP42 or better	
33	Warranty	2 years	
34	RoHS compliant	RoHS compliance certificate	Attach Certificate
35	Radio Test compliance	EN 303 413 V1.1.1, EN 300 328 V2.1.1 and EN301893 v2.1.1 or better	Attach Certificate
36	Electromagnetic Compatibility (EMC) International	EN 301 489-1 v2.2.3: 2020 (attach EU Declaration of Conformity)	Attach Certificate
37	ISO Certification	ISO 9001:2015 certificate	Attach Certificate


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