

Clifton Cameras Product Specification

Vaonis Vespera Observation Station Full Spec

1	Weight	5 kg (11 lbs)
2	Size	40 x 20 x 9 cm (15 x 8 x 3.5 in)
OPTICS		
3	Optical Design	Refractor
4	Lens	Apochromatic Quadruplet
5	Lens Special feature	Extra low dispersion S-FPL52 equivalent (ULD) with lanthanum glass
6	Aperture	50mm / 2in
7	Focal Length	200mm / 8in
8	Focal Ratio	F/44
9	Field of View	1.6° x 0.9° (96 x 54 arcmin)
10	Limited Magnitude	TBC
11	Equivalent Magnification	x30
12	Collimation required?	No
13	Application	Deep-sky objects (galaxies, nebulae, star clusters, comets...), Moon, Sun
14	Built-in Filter	UV/IR
PICTURES		
15	Sensor	Sony CMOS IMX462
16	Sensor Size	1/2.8"
17	Image Formats	Jpg; Tiff; Fits
18	JPG/TIFF images Download	Directly in the app or mobile device
19	Raw files Download	via Wi-Fi FTP on a computer
20	Resolution	Up to 8MP with CovalENS technology
21	Internal Storage	10 Go
22	Cloud Storage	200 Mo
MOUNT		
23	Mount	Motorized Alt-Azimuth
24	De-rotation	Software-based
OPERATIONS		
25	Control	Smartphone/Tablet with Vaonis Singularity app (iOS & Android)
26	Connectivity	Bluetooth
27	Internet required	No (except for account creation and updates)
28	Battery Life	8 hours (extendable with a powerbank)
29	Battery Type	Built-in (extendable with a powerbank)
30	Operating Temperature range	0-40° Celsius

31	Water Resistance	IP43
32	Celestial Catalog	300+ pre-set objects + unlimited with the access by coordinates
33	Research by Coordinates	Yes (J2000)
34	Multi-User Mode	Yes (up to 5 devices)
FEATU RES		
35	Star Field Recognition	Automated
36	Star Aligment	Automated
37	Tracking	Automated
38	Autofocus	Yes
39	Scheduling of Observations	Yes
40	Expert Mode	Yes (camera control, manual coordinates, raw files download...)
41	Mosaic Mode	Yes
42	Light Pollution Reduction	Optional accessory
43	Solar Mode	Optional accessory
44	Dew control	Optional accessory
OTHER		
45	Colors	White and black
46	What's in the box	Standard tripod, USB wall charger, magnetic USB cable, bubble level, dust cover
47	Warranty	2 years