

KANDA®

Kandao Obsidian Pro

12K 3D VR Cinematic Camera



Winner of CES Innovation Awards 2021



Eight APS-C
Super Large Sensors

Adjustable Aperture/Focus
Auto Eight Lens Synchronization

f2.8 Large Aperture
High-Resolution Fisheye Lens

12K

12K × 12K 30fps
3D Panoramic Video

12bit

12bit RAW
Video Recording

All-I

All-I 4:2:2
10bit Video Recording



8-in-1 SSD
Fastly Stable Storage

Eight APS-C Super Large Sensors

It's the world-first cinematic 360° camera with 8 APS-C sensors. 24 million pixels and high photosensitivity are the key factors for recording rich details and excellent performance.



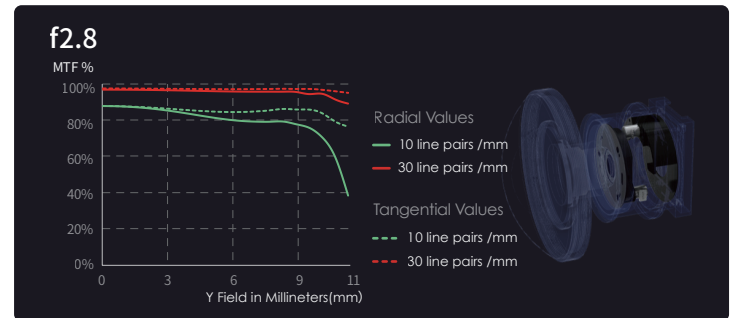
14 Stops Dynamic Range

Achieve smoothly transition from shadow to highlight, and provide more possibility for post-processing.



Adjustable Aperture

Equipped with lenses that have an adjustable aperture. The maximum aperture is f2.8, supports f2.8 to f16. Up to 16 stops of adjustable exposure for precise control on the depth of field and creative capturing with motion blur.



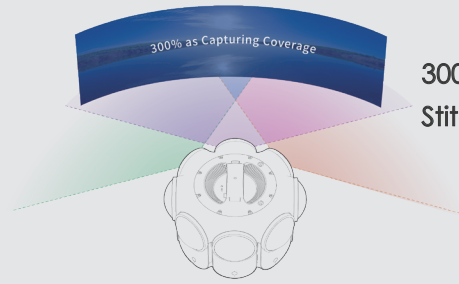
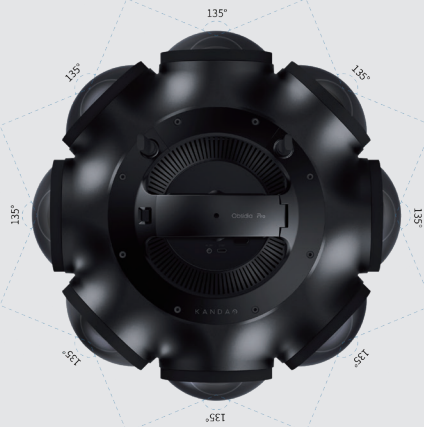
Selectable Focus Distance

It is unique with selectable focus distances. Offer "Near" and "Normal" as two options. Satisfy different focus requirement under the huge aperture.



Eight - Lens Design

135° as the FOV of each lens, and 12K as the panorama resolution. Offer full-cover footages for panorama stitching and 3D rendering.



300% as Capturing Coverage
Stitching Can Always be Perfect

Cinema-Imaging-Tech Lens

14 elements 10 groups
optical design for excellent performance.



14 elements, 28 sides, 18 layers of Anti-Reflection coating on each side

12K x 12K 30fps 3D Panoramic Video

60fps Super Resolution 12K 3D Panoramic Video is even Available.



Support Multi-Format Video Recording

12bit RAW video recording and 10bit All-I 4:2:2 video recording.
Supporting Frame Rate: 23.976, 24, 25, 29.97, 30, 50, 59.94, 60.



Specifications

Product Name	Kandao Obsidian Pro
Dimension	369.2mm 236.8mm
Weight	11.16 kg
Sensor Size	APS-C × 8
Lens	195° High-Resolution Fisheye Lens x 8
F-Stop	f2.8 - f16, 1/3 EV
Focus distance	Near, Normal
ISO	100 - 12800
Photo Shutter	1/20000s - 60s
Photo Mode	Single Shooting, DNG8, Time Lapse
Photo Format	14bit DNG, 8bit JPEG, JPEG+DNG
Video Shutter	1/20000 - 1/25s
Video Format	12bit KDRaw 10bit All-I 4:2:2 8bit / 10bit H.265
Video Resolution	11520×11520 @ 30fps (12K 3D) 11520×5760 @ 30fps (12K Panorama) 5760×5760 @ 60fps (6K 3D) 5760×2880 @ 60fps (6K Panorama)
HDMI Maximum Output	8K@30Hz
Wi-Fi	Wi-Fi 6 (802.11.ax) ; 2.4GHz, 5GHz
Bluetooth	Bluetooth 5.0
Built-in Sensor	Nine-Axis Gyroscope, GPS
Storage	8-in-1 SSD module x 1 (Optional) Micro SD (Proxy File Storage) x 1
Connection	3.5mm Audio Input USB Type-C HDMI 2.0 Type-A 10Gb Ethernet Port
Power Input	Push pull self-lock aviation connector plug x 1 (Lemo connector, 2B, 4pin)
Maximum Input	160W
Power Supply	110-220V AC/DC Adapter; Input Voltage 20V; V-Mount Battery
Screw Hole	1/4, 3/8, Multihole

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