



**The Z CAM S1 camera is fully integrated four sensor 360 VR one piece camera system.**

The S1 is the most stable and convenient professional VR360 camera in the market today with synchronised sensors and co-ordinated auto white balance and exposure for simplified production workflow. All four cameras are integrated on to one PCB to ensure the sensors are as close together as possible.

An optional battery pack is uncluded enabling up to 2 hours recording which can be doubled when using 128GB cards and the power adapter.

Z CAM 360° Video Stitching software provides real time stitching for live streaming and automatic offline optical flow based stitching, both giving the highest quality images with superb stitch lines for a precise sync.

Now users can focus on storytelling rather than technical issues.

**Sophisticated**

**Superior**

**Compact**

**Powerful**

**Specifications:**

- One-piece professional 360° camera system
- 4K resolution @ 60 fps, 6K @ 30 fps
- 4 x 190 degree high resolution lenses
- 4 directional microphones
- Dedicated stitching software
- Harmonised images - AE and AWB co-ordinated
- Guaranteed simultaneous recording
- Precisely synchronised
- Up to 240 minutes continuous recording with 128GB SD cards
- Small Parralax
- Full metal aluminium alloy compact housing
- AC/DC adapter & power cables
- Detachable Battery Unit also included
- Requires 4 x 18650 Standard Button Topped Li-ion Rechargeable Batteries (Not Included)
- Ethernet port
- Open API
- Camera weighs 650 grammes
- 1 year camera warranty



SeeSense are able to provide full technical assistance and back up for this camera. Please contact SeeSense for further details and for accessory options

Rev: 2.019.1216 E&OE

### Specification - Features

Image Sensor	4 x Sony EXMOR CMOS sensors 4 x Ambarella A9 S75 Chipsets
Output Pixels	2704 x 1520 @ 60fps, 3840 x 2160 @ 30fps
Sync / Freq	4K @ 60 fps; 6K @ 30 fps
Spherical Resolution	4K @ 60 fps / 6K @ 30 fps post stitching output
Lens	4 x 190° Fisheye Lens (10 facets)
Min. Illumination	100 - 102,400 ISO
Frame Rate	4K @ 60 fps; 6K @ 30 fps
Sync	Z CAM Sync Technology at line sync level between all four sensors
Auto Exposure	Harmonised auto exposure
White Balance	AWB (Automatic White Balance) coordinated with all four cameras for harmonised images
Gamma	Z CAM Z-Log professional Gamma setting

### Storage

Storage Type	4 x SD cards, up to 128GB (SDXC class 10 is recommended)
Recording time	Battery - Up to 120 mins continuous recording Power adapter - Up to 240 mins continuous (Using 128GB cards)

### Connectivity

Gigabit Ethernet Port	Full open API for expert users (see details) Remote control and setting for Live stream resolution over ethernet: 4K equirectangular
HDMI Port	4 x Mini HDMI ports, 1080P @ 60fps output
AC/DC Power Port	Input 100V/240V, Output DC 12V 5A

### Specification - Physical

Body Material	Aluminium Alloy
Battery	4 x 18650 Standard <u>Button topped</u> Li-ion Re-chargeable Cells The battery compartment is detachable
Dimensions	92mm diameter x 142mm height (camera)
Weight	Camera 650 grammes, Battery Unit 393 grammes
Camera Mount	3/8 UNC Standard tripod mount top and bottom

### Specification Performance - Video

API Details	ISO	Auto, Manual (ISO 100-3200)
	White Balance	Auto
	Metering Mode	Centre, Average, Spot
	Brightness	YES
	Sharpness	YES
	Saturation	YES
	Contrast	YES
	Manual Shutter Angle	YES
	Image Flt Transfer	YES
	Video Encoder	H.264 High Profile
Bitrate for 4K UHD	60 Mbps	
Audio Encoder	AAC	
File Format	MOV	
Microphone	4 x Directional mono microphones	

### Includes

Z CAM S1 Main Camera Unit  
Z CAM S1 Lens Protector  
Z CAM S1 Detachable Battery Unit (18650 Li-ion cells not included)  
AC/DC Power Adapter Unit  
Power Connection Cables (UK, EU and US)  
Quick User Guide

### Accessories

Bushman Amarula Carbon Tripod  
Bushman Eben Amarula Tripod  
Bushman 3.15m Monopole  
If you have a specific requirement please contact SeeSense for advice.



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