

Model	Bosma B1 Broadcasting Camera    DC0300	
Camera Features	CMOS Sensor	35mm Full Frame CMOS
	Effective pixels	47 mega pixels
	Lens mount	PL-Mount
	Dynamic Range	≦ 14 stops
	Microphone	Built-in stereo microphone
Recording	Resolution	8192 x 4320 @60fps (8K DCI) 、 7680 x 4320 @60fps (8K UHD) 6144 x 3240 @60fps max (6K DCI) 、 5760 x 3240 @60fps max (6K UHD) 4096 x 2160 @120fps max (4K DCI) 、 3840 x 2160 @120fps max (4K UHD) 2048 x 1080 @240fps max (2K DCI) 、 1920 x 1080 @240fps max (2K UHD) Super 35mm: 6K (DCI、UHD)、 5K (DCI、UHD)、 4K (DCI、UHD)
	Frame Rate	240 / 120 / 60 / 50 / 30 / 25 fps
	Maximum sensor frame rate dependent on resolution selected	8K@60fps (H.265/H.264) 、 4K@120fps (H.265/H.264) 、 2K@240fps (H.265/H.264)
	Maximum Bitrate	4K@600M (H.265/H.264) 、 8K@1000M (H.265/H.264)
	Color Depth	12-Bit
	Video Encoder	H.264,8-bit 4:2:0 、 H.265,10-bit 4:2:0
	Audio Sampling	48KHz/24 bit
	Audio Encoder	AAC (48KHz/16bit) 、 PCM (48KHz/24bit)
	Recording Formats	MOV/MP4
	Recording Mode	Video / Time Lapse Video
	Bitrate Control	VBR、CBR
Imaging	ISO	Auto, Manual (250 ~ 12800)
	Shutter Control	Shutter Speed:    Auto Manual (1" ~ 1/32000" ) Shutter Angel:    Auto, Manual (1" ~ -360° )
	White Balance	Auto, Manual (2300K ~ 10000K)
	Focus modes	MF/AF/CAF
	Image	Brightness,Contrast, Saturation, Sharpness
	HDR	HLG/HDR10
	Color Space	BT.709 Gamut/BT.2020 Gamut
Sync And Control	Timecode	Linear TC In&Out (Regular BNC)
	Genlock Sync	Genlock Input x1 (Regular BNC)
	3G-SDI(Monitor Outputs)	3G-SDI x1 with Meta data (Regular BNC) ,Up to 1080p for 60p
	12G-SDI(Video Outputs)	12G-SDI x4 with Meta data(Regular BNC) ,Up to 8k, 10-bit 4:2:2 for 60p
	HDMI(Monitor Outputs)	HDMI x1 ,Up to 1080p for 60p
	USB	USB 3.0 TypeC x 1
	Audio Input	3.5mm stereo headphone jack x 1,48V phantom power supply
Audio Output	3.5mm stereo headphone jack x 1	
Network And Wireless Interfaces	WIFI	2.4GHz、 5GHz
	5G Support	Support external TypeC 5G box
Power	Battery	V-mount battery(Battery not included)
	Power Input	DC 12V/7A
	Power Output	DC 12V±5%/1A
Storage	Storage Card	CFexpress Card Type B
	Storage Media	Support external SSDs(USB 3.0 Type C、SSD is not included)
	File System	exFAT
General	Physical Material	Aluminum Alloy
	Dimensions (WxHxD)	167.5*153*208mm, +/-1mm
	Weight	6.61lb /3kg
Requirement	Storage Temperature	-20 ° C ~ 60 ° C
	Operation Temperature	0 ° C ~ 40 ° C

BOSMA 8K



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Version: V2.2

\*The data in the brochure are all standardized data from lab testing. The product's actual performance may vary based on the quality of the finishing products, software version, firmware version, etc.

BOSMA 8K



## BOSMA B1 8K Full Frame Camera

BOSMA B1 DC0300

47 Megapixels	35mm Full Frame CMOS	4 X 12G-SDI	8K Resolution 8192 X 4320
PL Mount	≦14 Stops Dynamic Range	H.264/H.265 File Format	Dual Base ISO (300:2400)

## Multiple Resolutions and Framerates

Optical Format	Resolution	Framerate				
		25/30P	50/60P	120P	240P	
Full Frame	DCI 8K 8192x4320	●	●			
	UHD 8K 7680x4320	●	●			
	DCI 6K 6144x3240	●	●			
	UHD 6K 5760x3240	●	●			
	DCI 4K 4096x2160	●	●	○		
	UHD 4K 3840x2160	●	●	○		
	DCI 2K 2048x1080	●	●		○	
	UHD 2K 1920x1080	●	●		○	
Super 35mm	DCI 6K 6144x3240		●			
	UHD 6K 5760x3240		●			
	DCI 5K 5120x2700		●			
	UHD 5K 4800x2700		●			
	DCI 4K 4096x2160		●			
	UHD 4K 3840x2160		●			

○ :To record images to be played back as slow motion images at high frame rate which is up to 120P or 240P, only crop modes are available in 4k and 2k resolution.

## High-resolution High-performance 8k CMOS

The Bosma B1 achieves a good balance between excellent image quality and high sensitivity, and effectively suppresses rolling shutter distortion when shooting moving objects.





## 14 Stops of Dynamic Range

The Bosma B1 offers 14 stops of dynamic range, which helps record more details of the bright and dark parts of the image in high contrast conditions, bringing much more freedom in post-production.



## Dual Base ISO ISO 300/ISO 2400

The Bosma B1 features dual base ISO for a wider range of light sensitivity when shooting video, minimising noise in low-light situations and achieving cleaner images.

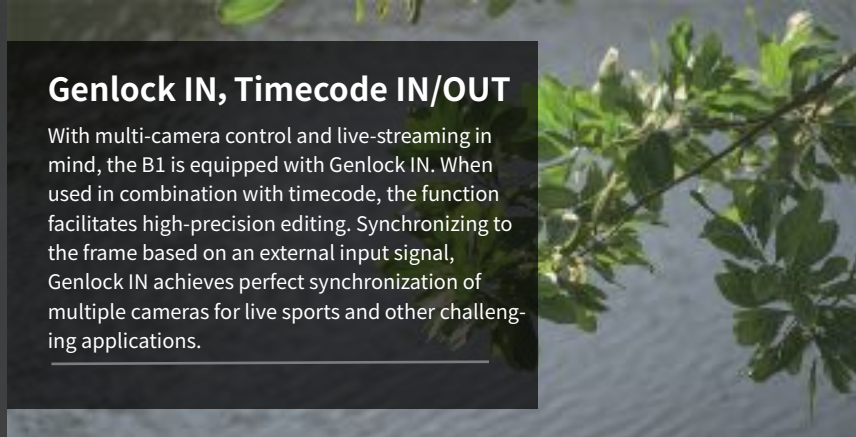
## CFexpress and SSD Media Support

The camera supports the new standard CFexpress memory card, which features data rates up to 2GB/s, allowing for high volume material processing at 8K resolution. It introduces a USB-C expansion port for external SSD recording.

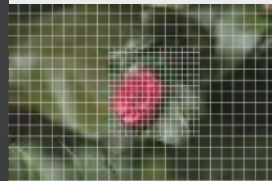


## Genlock IN, Timecode IN/OUT

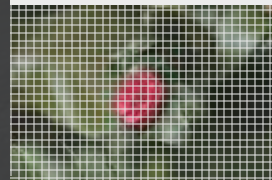
With multi-camera control and live-streaming in mind, the B1 is equipped with Genlock IN. When used in combination with timecode, the function facilitates high-precision editing. Synchronizing to the frame based on an external input signal, Genlock IN achieves perfect synchronization of multiple cameras for live sports and other challenging applications.



## HEVC/H.265



## AVC/H.264



## H.265 10-bit 4:2:0

High efficiency codec

Compatible with the new video encoding standard H.265, it can effectively control the file size. On the premise of ensuring the image quality, the data rate volume can be effectively controlled with H.265, which is about 40% better compression efficiency than H.264.

## Professional PL Lens Mount

The PL lens mount lets you use professional cinema lenses from manufacturers such as Panavision, ARRI, Zeiss, and Cooke. This gives you access to some of the highest-quality modern and vintage optics available. Other lenses can also be used with adapters, such as the B4 lens.



## 12G- SDI Output with Metadata

The Bosma B1 supports 8K @60fps 10-bit 4:2:2 uncompressed signal output via four 12G-SDI connections for both video output and returns program feed input.

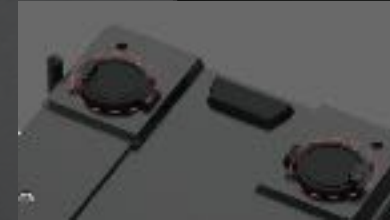
## Efficient Cooling

The compact body is designed for uniform heat dissipation. Aluminum and magnesium alloy body-frame and a cooling fan contribute to improved heat-dissipation efficiency while reducing weight for portability. And the built-in intelligent stepless fan speed control system reduces fan noise.



## Two XLR audio inputs with +48V phantom power

You can use the built-in stereo microphone to record natural location sound or connect professional microphones using the two XLR mic inputs for more details.



## Remote Control and Monitoring

Realize camera live preview and remote control via Android app.



## Compatible with external CCU

The B1 can be operated with camera control unit, working as large studio cameras.



## 12-Pin Lens Control

Parameters such as the aperture of the B4 and PL lenses can be controlled electronically.



## HD LCD Display

A 1.89" HD LCD screen provides a clear overview of the camera's operating status.



## Advanced Operating System

Bosma B1's operating system is intuitive and user-friendly. You can adjust all the camera's functions with a single hand.

