

HD MINI CAMERA

Model BCM-300MCHD-001

DATASHEET



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HD MINI CAMERA

Model BCM-300MCHD-001



The HD Mini Camera model BCM-300MCHD-001, developed by BMPTECH, is designed for inspection applications that require high image quality, reliability, and real-time response. Its compact form factor and low weight make the equipment ideal for small ROVs, lightweight vehicles, and systems with space and payload constraints.

The camera uses ultra-low-latency digital transmission, ensuring accurate and immediate visualization during underwater operations. It operates within a (13 to 30) VDC power supply range, allowing easy integration with different electrical architectures of inspection systems.

The mechanical assembly is constructed with a titanium 6Al4V Grade 5 housing, ensuring high structural strength and safe operation at depths of up to 4,500 meters.

To meet different installation configurations, the equipment can be supplied with various connector and cabling options. The use of the BMPTECH Quick Connector Series is recommended, as it provides greater reliability, robustness, and ease of system integration.

MAIN FEATURES:

- The BCM-300MCHD-001 delivers superior image quality with resolutions of up to 1920 × 1080 Full HD (FHD);
- It features an image stabilization function within its optical assembly, which neutralizes the effects of shaky and blurred images caused by low-frequency vibrations;
- The camera includes an image sensor back-illumination function, providing improved image quality even in environments with low light levels;
- Progressive digitalization system without interlacing, providing a more stable image and flicker-free performance during motion.

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TECHNICAL SPECIFICATIONS

Video	Sensor Type	1/2.8" CMOS Sensor – 2.2 Megapixels
	Signal System	FHD: 1920x1080 3G-SDI
	Image Elements	2.2 Megapixels
	Viewing Angle (H)	Aprox. 70 degrees
	Minimum Operating Distance	300 mm
	Minimum Illumination	0,5 lux
	Synchronization System	Internal Sync
	Electronic Shutter Speed	1/30 s to 1/100,000 s (automatic)
Video Output	Focus System	Fixed focus
	Transmission	3G-SDI
	Frame Rate	1920 × 1080p at 60 FPS
Connedivity	Bit Rate	3Gbps
	Interface	SDI
	Protocols	SMPTE 424M / SMPTE 292M
Camera Control	SDI	3G-SDI
Electrical	Input Voltage	(13 to 30) VDC (contact us for more information)
	Power Consumption	~ 10 W
	Connector	Contact us for more information
Mechanical	Housing	Titanium alloy 6Al4V Grade 5
	Lens	Optical-grade acrylic
	Dimensions	Ø 35 mm × 156.5 mm (length / excluding connector)
	Weight (air / water)	530g / 460g
Environmental	Depth Rating	4.500m
	Storage Temperature	(-20 to 80)°C
	Operating Temperature	(-5 to 70)°C

DIMENSIONS

