MCV8-SERIES
MINI CYLINDRICAL CAMERA

MCV8 Camera

KEY FEATURES
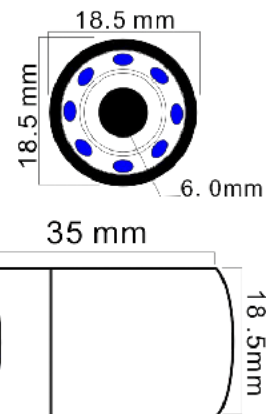
- **High quality analogue video output**
- **Low power demand**
- **Good SNR**
- **High brightness white LED illumination**
- **Day/night auto switch mode**
- **Ultra compact size**
- **Cost effective**
- **Available cable lengths up to 20m**
- **Optional protective mounting sleeves and brackets**

The MCV8 is a compact cylindrical camera ideally suited for micro-machine, underwater monitoring, pipe inspection, harsh environment monitoring, anti-terrorism, rescue, evidence taking, medical equipment, police, military, security and other fields.

It's low power CMOS sensor, compact size and rugged package provide high stability and long working life. Bright LEDs allow for excellent image quality in dark environments up to 8m in distance.   With an IP68 rating, the MCV8 is ideally suited to harsh environment applications.

The MCV8 is available with cable lengths up to 20m. Standard cable lengths include 0.5m, 2m, 5m, 10m and 20m. Custom cable lengths up to 20m can be accommodated. Backend breakout cables are available in different configurations that include discrete power input, video output and LED on/off control, or through a multi-pin connector. Bock Optronics also provides a selection of protective mounting sleeves and brackets to allow the MCV8 to be mounted in a variety of applications. Please contact Bock Optronics for more information.

CAMERA DIMENSIONS

18.5 mm

18.5 mm

6.0mm

35 mm

18.5mm

Example cable and breakout connector options.

Cable lengths from 0.5m to 20m

High brightness white LEDs

Wide angle lens.

0.5m cable length with power/video breakout cable

10m cable length with power/video/LED control breakout cable

20m cable length with power/video/LED control breakout cable

DESCRIPTION	MCV8-SERIES COLOUR CAMERA
Image Sensor	1/3" CMOS colour sensor, 728 (H) x 576 (V) pixels
Scanning System	NTSC, 30 frames/sec.
Horizontal Resolution	> 520 TV Lines
Synchronising System	Internal
Video Output	1.0Vp-p, composite, 75 Ω
Minimum Illumination	0.1 lux at F1.2 with LED OFF / 0 lux with LED ON
Lens	1.2mm, F1.2
Angle of View	90°H x 74°V
LED Control	Optional, continuous or push button ON-OFF control
LED Output	~ 17,600 mcd
S/N Ratio	> 45dB
Shutter Speed	1/60 ~ 1/100,000 sec.
White Balance / Gain Control	Automatic
Power Requirement / Operating Current	12VDC / 110mA with regulated 12VDC input (LED on)
Operating Temperature	-10°C to +50°C (14°F to 122°F) @ 90% relative humidity
Dimensions (mm)	Ø18.5mm x 35mm (L)
Weight	approx. 12 grams
Environmental Rating	IP68
Cable Length Availability	**MCV8-0005** 0.5m breakout cable **MCV8-0020** 2.0m breakout cable **MCV8-0050** 5.0m breakout cable **MCV8-0100** 10m breakout cable **MCV8-0200** 20m breakout cable **MCV8-xxxx** custom length cables are available up to 20m
Protective Mounting Sleeves *(optional)*	**-B01** Ø36mm x 36mm (L) w/ offset rear 1/4-20 thread mount **-B03** Ø35.5mm x 63mm (L) w/ centred rear 1/4-20 thread mount *(SK2120 replacement)*
Mounting Brackets *(optional)*	**-CM-LSB** 76mm (3") bracket with screw base **-CM-LMB** 76mm (3") bracket with high strength magnetic base **-CM-SSB** 38mm (1.5") bracket with screw base **-CM-RBSB** 100mm (4") heavy duty mounting bracket with screw base **-CM-RBMB** 100mm (4") heavy duty mounting bracket with magnetic base
Part Number Ordering Examples	**• MCV8-0050-B03-CM-LMB** *MCV8 camera with 5m interface cable, B03 protective sleeve and 76mm mounting arm with magnetic base* **• MCV8-0200-CM-LSB** *MCV8 camera with 20m interface cable, no protective sleeve, with 76mm mounting arm with screw base* **• MCV8-0100** *MCV8 camera with 10m interface cable, no protective sleeve and no mounting arm*

B01 optional protective mounting sleeve

B03 optional protective mounting sleeve

Optional mount brackets and stands available

CM-RBSB

CM-LMB

CM-LSB

CM-SSB

CM-RBMB

Rev.3.2