

DOTCAM HR

Miniature Radiation Tolerant Camera



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The Mirion Dotcam HR is an innovative camera designed as an extremely easy-to-use, flexible device combining service proven reliability with higher radiation resistance. The Dotcam HR is a color video camera offering excellent reproducibility with low lag and high burn resistance and is not subject to distortion from magnetic fields.

The versatility of the camera comes from its ease of deployment and small footprint; ideal for many on-site tasks demanding higher radiation tolerances. The Dotcam HR proves itself in the most demanding situations by providing dose tolerances up to 100krad (1kGy) total dose and provides good pictures at dose rates up to 30krad/h (300Gy/h).

The system incorporates a 1/3" state-of-the-art sensor providing high quality color pictures - even in low lighting conditions. The Dotcam HR provides an integral white LED lighting ring, 4.0mm f/5.0 lens and is fully immersible to a depth of 60m (200').

KEY FEATURES

- Higher radiation resistance
- High resolution color
- White LED lighting
- Variable lighting option
- Stainless steel housing
- Small in size
- Fully submersible camera/cable
- Simple cable



For applications with no, or moderate radiation, please see our information on the standard Dotcam.

SPECIFICATIONS AND PERFORMANCE

Dotcam HR	
	1kGy (100krad) (1 x 10 ⁵ rad)
	300Gy/h (30krad/h) (3 x 10 ⁴ rad/h)
	1/3" image sensor
	400 TV lines (NTSC) 450 TV lines (PAL)
	1.0 lux f/2.0 (without LED lighting)
	> 48dB
	1/60 second to 12μs (NTSC) 1/50 second to 12.5μs (PAL)
	4mm f/5.0 (FOV = 90° diagonal)
	6mm f/2.8 (FOV = 54°)
	DC12V +/- 10%
	110mA maximum
	29mm (1.14")
	79mm (3.1")
	116mm (4.6")
	123mm (4.8")
	Stainless Steel (SS)
	6 high brightness LEDs

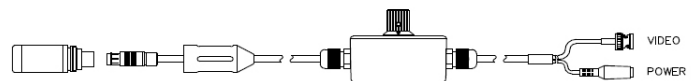
Dotcam HR	
	IP68, 60m (200' water depth)
	0°C to 60°C (32°F to 140°F)

Cables	
	6mm (.25")
	30m (98.4')

DotCam HR Series Part Numbers	
	NTSC - Higher radiation capable Dotcam with LED lighting, 4-way stainless steel connector
	NTSC - Higher radiation capable Dotcam with LED lighting, glanded
	PAL - Higher radiation capable Dotcam with LED lighting, 4-way stainless steel connector
	PAL - Higher radiation capable Dotcam with LED lighting, glanded

Lens Options

Other lenses are available, please contact Mirion Technologies for details.



Dotcam HR Configuration with Variable Lighting Control

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Specifications may vary according to system configuration. We reserve the right to modify or amend the information herein without prior warning. Please contact your Mirion representative for further information.

Mirion Technologies (IST) Ltd and Mirion Technologies (Imaging), LLC are ISO 9001:2008 certified companies (certificates available on request or at www.mirion.com).

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