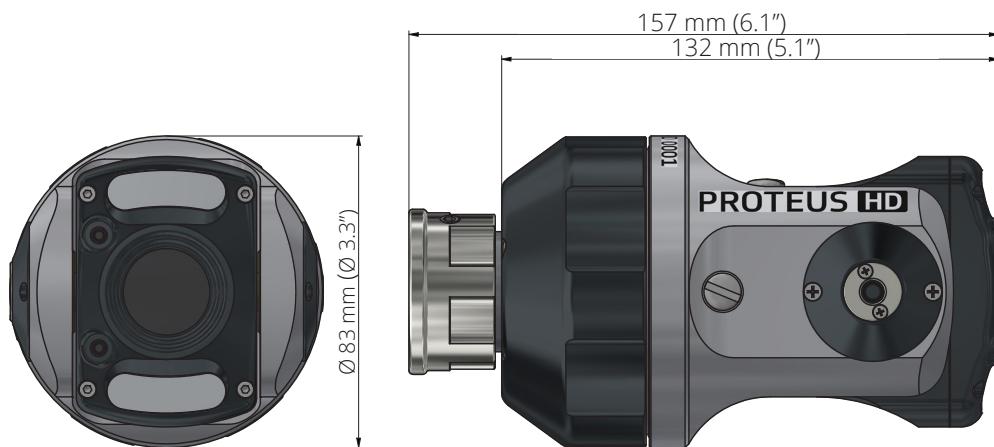


## CAMERA

### CAM090-HD

Minicam's CAM090-HD camera pairs with our upgraded CRP140-HD crawler to record full, 1080p, HD video for the inspection of pipes 140 mm (6") in diameter and larger. The full HD video stream delivers excellent detail and colour balance to operators, even when using CAM090-HD's 10x optical zoom to inspect pipe connections and lateral junctions. Additionally, automatic focus keeps the image sharp regardless of pipe size or zoom level.

Ample lighting is provided in the pipe using built-in LEDs, even when inspecting mainline pipes. CAM090-HD also features continuous 360° rotation and 135° of bi-directional tilt, ensuring you can see exactly where you need to. Finally, CAM090-HD is built with two independent laser measurements functions as standard: parallel lasers and an integral distance laser. The parallel lasers are used to accurately measure defect and object sizes, while the integral distance laser is used to quickly measure the pipe's diameter.



Front View

Side View

Rear View

### Technical Data

<b>Image Sensor</b>	1S/2.8 - Type Sony IMX33g STARVIS   CMOS Sensor
<b>Resolution</b>	1080p (Full HD 1920 x 1080)
<b>Sensitivity</b>	< 1.0 lux
<b>Aperture</b>	F/1.8 - 2.9
<b>Field of View</b>	46° ~ 4.6°
<b>Zoom</b>	120x (10x Optical, 12x Digital)
<b>Focus</b>	Auto (manual override)
<b>Self-leveling Image</b>	Toggleable motorised camera homing
<b>Illumination System</b>	6 LEDs
<b>Illumination Intensity</b>	Adjustable to 12.5k lux at 150 mm
<b>Aligned Laser Spacing</b>	30 mm (1.18")
<b>Depth Rating</b>	1 bar (14.50 psi)
<b>Dimensions</b>	Ø 83 mm / length 157 mm (Ø 3.3" / length 6.1")
<b>Weight</b>	approx. 1.1 kg (2.4 lb)
<b>Pipe Diameter</b>	90 mm - 600 mm (4" - 24")
<b>Protection Class</b>	IP68
<b>Power</b>	Typical 12 W   Max 21W
<b>Temperature</b>	-10°C ~ +45°C