

specifications

Hawkeye® V2 Video Borescope Specifications

Part no.	V2 040 1500 4 V2 060 1500 4 V2 060 6000 4	V2 040 3000 4 V2 060 3000 4
Scope diameter	4 mm 4 mm 6 mm	6 mm 6 mm
Scope length	1.5 m 3.0 m 6.0 m	1.5 m 3.0 m
Articulation	4 way, +/- 150 deg 4 way, +/- 150 deg 4 way, +/- 120 deg	4 way, +/- 150 deg 4 way, +/- 150 deg
Direction-of-view	0°, optional 90 0°, optional 90 0°, optional 90	0°, optional 90 0°, optional 90
Field-of-view	70° 70° 70°	70° 70°
Depth-of-field	15 mm - ∞ 15 mm - ∞ 15 mm - ∞	15 mm - ∞ 15 mm - ∞
Outer sheath	Tungsten braid Tungsten braid Tungsten braid	Tungsten braid Tungsten braid
Inner sheath construction	Stainless steel mono-coil with outer polymer layer	
Length of rigid tip	14 mm 14 mm 18.3 mm	18.3 mm 18.3 mm
Minimum bend radius	32 mm 32 mm 45 mm	45 mm 45 mm

Weight of the entire system	2 lbs.	2.2 lbs.	2.1 lbs.
	2.3 lbs.	2.9 lbs.	
Certified	CE	CE	CE
	CE		

Color camera 3.4 CMOs, color signal NTSC/PAL, sensitivity 2 Lux / F

Illumination Detachable micro LED with intensity adjustment

Display 5" TFT LCD, 640 x 480 resolution, 4:3 aspect ratio ,
rubber coating for shock absorption

Interface Mini USB 1.1 and AV/out

Recording media SD card up to 32 Gb

Image capture format (resolution) JPEG (640 X 480)

Video capture format (resolution) ASF (640 X 480)

Power 5VDC

Display battery 2.5 hr. run time, rechargeable lithium, 3.7 VDC,
capacity 3900 mAh, charging time 3 hr.

Light source battery 2 ea. Tenergy RCR123A circuit protected 3.0V
rechargeable Li ion battery, average run time 75 min.

90° interchangeable tips

Part no.	V2-PTIP-4-90	V2-PTIP-4-90		
	V2-PTIP-6-90	V2-PTIP-6-90		
	V2-PTIP-6-90			
Direction-of-view	90°	90°	90°	90°
	90°			
Field-of-view	70°	70°	70°	70°
	70°			

Depth-of-field	12 mm - ∞ 12 mm - ∞	12 mm - ∞	12 mm - ∞	12 mm - ∞
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Distal tip outer diameter	4 mm 6 mm	4 mm	6 mm	6 mm
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0° close-focus tips

Part no.	V2-TIP-4CF V2-TIP-6CF	V2-TIP-4CF	V2-TIP-6CF	V2-TIP-6CF
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Direction-of-view	0°, direct view 0°, direct view 0°, direct view	0°, direct view 0°, direct view
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Field-of-view	70° 70°	70°	70°
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Depth-of-field	4 mm – 22 mm 4 mm – 22 mm 4 mm – 22 mm	4 mm – 22 mm 4 mm – 22 mm
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Distal tip outer diameter	4 mm 6 mm	4 mm	6 mm	6 mm
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specifications

Environmental

Sheath operating temperature: in air : -25° C to 80° C, in water : 10° C to 30° C

Storage temperature, entire unit: -30° C to +60° C

Air pressure: 1 atmosphere

Humidity: 5-95% relative humidity

Fluid resistance of sheath and most oils (except hydraulic fluid) Resistant to water up to 5% salinity

Water resistance of sheath	Waterproof
Borescope handle and monitor	Splash resistant only

Gradient Lens Corporation provides no guarantee without a specific material compatibility test.

V2 Video Borescope – Firmware Interface

Quick access interface	Intuitive image capture and video capture function
Digital zoom	up to 2x
Image rotation	yes
Mirrored image	yes
Time/date	yes
Data export	yes, via USB or SD card
Auto-off option	optional
External on-screen display	yes
Text annotation	yes
Menu language selection	English, German, French, Spanish, Italian, Japanese, Russian, Portuguese, Dutch, Chinese, Polish, Czech, Croatian, Greek, Danish, Swedish, Finnish, Arabic, Korean, Hindi, etc.
Memory device	SD memory card, 32 mm × 24 mm × 2.1 mm, pins: 9, ≤4 Gb, up to 32 Gb
Image capture format (resolution)	JPEG (640 X 480)
Video capture format (resolution)	ASF (640 X 480)
Playback of captured videos and images	Playback supported on Windows Media Player
Input/output connections	Memory interface: 1X SD, USB interface: 1X mini-USB 1.1./USB, image signal output: 1x AV, mains power supply: 1X 5 V DC

