

SPECIFICATIONS

Hawkeye® V2 Video Borescope Specifications

Part no.	V2 040 1500 4	V2 040 3000 4	V2 060 1500 4	V2 060 3000 4	V2 060 6000 4
Scope diameter	4 mm	4 mm	6 mm	6 mm	6 mm
Scope length	1.5 m	3.0 m	1.5 m	3.0 m	6.0 m
Articulation	4 way, +/- 150 deg	4 way, +/- 150 deg	4 way, +/- 150 deg	4 way, +/- 150 deg	4 way, +/- 120 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	CE
Color camera	CMoS, color signal NTSC/PAL, sensitivity 2 Lux / F 3.4				
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 - ∞
Distal tip outer diameter	4 mm	4 mm	6 mm	6 mm	6 mm
0° close-focus tips					
Part no.	V2-TIP-4CF	V2-TIP-4CF	V2-TIP-6CF	V2-TIP-6CF	V2-TIP-6CF
Direction-of-view	0°, direct view	0°, direct view	0°, direct view	0°, direct view	0°, direct view
Field-of-view	70°	70°	70°	70°	70°
Depth-of-field	4 mm - 22 mm	4 mm - 22 mm	4 mm - 22 mm	4 mm - 22 mm	4 mm - 22 mm
Distal tip outer diameter	4 mm	4 mm	6 mm	6 mm	6 mm

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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	Resistant to water up to 5% salinity and most oils (except hydraulic fluid)
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