COPPERHEAD 360 THERMAL-VISUAL POLE CAM

The New Standard in Tactical SA

16X THE THERMAL PIXELS

7X THERMAL FIELD OF VIEW

9X MAX VISUAL RESOLUTION

5X VISUAL FIELD OF VIEW

2X BATTERY LIFE



Modern Native Data Integrations:

Download on the App Store

GET IT ON Google Play

Direct Upload to Axon Evidence.com

Category	Leading Tactical Pole Cams	*COPPERHEAD 360°*
Thermal Resolution	160 x 120	***960 x 320***
Thermal HFOV	51°	***360°***
Max Visual Resolution	1280 x 720 monochrome **or** 640 x 480 color	***3840 x 2160***
Visual HFOV	70°	***360°***
Min. Hole Diameter	53.2mm	***51mm***
Battery Life	1 hr - 2.5 hr	***5 hr***
Audio	Microphone Only	***Two-way audio and Distraction Siren***
Native Integrations	None - Over Ethernet to ATAK	***ATAK/ Android / iOS/ Evidence.com***

TECHNICAL SPECIFICATIONS



Like other Pit Vipers, Copperhead snakes can see in both visual and thermal, better detecting threats and their prey.

Comparisons to leading commercial systems based on publicly available marketing spec sheets accessed Feb. 26, 2026.

Imaging		
	Visual	**Thermal**
Max Resolution (Stitched)	3840 x 2160	960 x 320
Resolution (Per Imager)	3840 x 2160	320 x 240
Frames Per Second	30 FPS (640 x 480) 12 FPS (1920 x 1080) 5 FPS (3840 x 2160)	< 9 FPS
FOV	360° (H) x 220° (V)	360° (H) x 75° (V)
Dynamic Range	78dB (w/o eHDR)	(scene) -40°C to 330°C
White Light Illumination	1.2 W @ 6000K	N/A
IR Illumination	1.8 W @ 940nm	N/A

Mechanical/Environmental	
Housing	6016 Anodized Aluminum
Width	51mm / 2.01in
Length	380mm / 15 in.
Weight	910g / 2 lbs.
IP Rating	IP54 or IP67 with protective windows
Operating Temps	-20°C to 50°C
Multiple Pole Lengths and a Ground Spike Offered	

Electrical	
External Power	USB-C or Ethernet PoE
Batteries	Dual 18650 3950 mAh or 3000mAh for extended temp range
Runtime	5 hours

Communications	
Wired Transmission	Ethernet or Fiber-Optic
Wireless Transmission Range	Up to 200m LOS
Wireless Channel Encryption	WPA2
Data Encryption	256 AES
Display Applications (Native)	ATAK, Android, iOS
MANET Integration	Trellisware, DTC + Silvus and MPU-5 Compatible

Audio	
Speaker Output	100dB @ 100mm
Pre-Programmed Commands	Dozens of Lanuages + User Programmable
Distraction Mode	100dB Siren + Flashing Lights