

Hawk-i™

Video Aiming Device for Explosive Ordnance Disposal (EOD) Robots



Take the guesswork out of aiming your PAN™ disrupters. The Hawk-i™ Video Aiming Device utilizes a camera and a rangefinder to automatically place crosshairs on your monitor. As you approach a target the crosshairs shift based on your range to the target to show operators the true point of impact for their shot. No calibration is required and no adjustments are needed by the operator to account for the range to the target. The system also displays range to target in the upper left corner of the video image.





This camera sighting system is designed to work from a robot and will mount onto the barrel of the disrupter. Versions are available for several popular EOD robots, and the system can be configured for other robotic platforms, contact sales.

The camera projects crosshairs on the target and they are seen on the robot's monitor. This way you can mount the camera to one barrel and be able to see the crosshairs for each barrel. The Hawk-i rangefinder will measure the distance from the end of the barrel to the target that will display in the upper left corner of your monitor. The rangefinder is good up to 48 inches.

The camera can project two sets of crosshairs if you have a dual mount. The crosshairs are overlaid on the video image and then sent back to the robot control station through the robot's accessories port or weapons port. While approaching a target, the crosshairs shift based on your range to the target to show operators the true point of impact for their shot. It takes less than 5 minutes to integrate the aiming system to the robotic platform.

Tilt (Angle of Fire): An additional capability to the Hawk-i video sighting system that can be enabled as an option at the factory.¹ The Hawk-i can display the tilt angle of the disrupter barrel. This is an additional piece of data often desired by EOD technicians to ensure that the disrupter shot is taken at the ideal angle to produce the optimal result. The tilt readout, when enabled, will be displayed underneath the range reading on the video screen. The angle is given in degrees.

Features

	Crosshairs are projected on to operator's video monitor and are automatically updated based on range to target; Provides crosshairs for dual barrels through one system ³
	Range to target is displayed on operator's video monitor; Requires access to one analog video channel on a robotic platform
	Sealed enclosure for environment and shock resistance; 5-minute integration; No external monitor or hardware required at the robot's base station
	Minimum Standoff Distance: 9 inches ² ; Maximum Standoff Distance: 48 inches ² ; No calibration required



2011 Edison Gold Award for Best New Product!

Configuration and Delivery Details:

- Standard mounting offset for Hawk-i™ from end of barrel is 0.75"; custom offset must be stated at time of order.³
- Hawk-i™ and Cobra Sight™ aiming systems are not ITAR-restricted.
- Hawk-i™ versions are available for ANDROS F6A, tEODor, and TALON; contact us about Telemax support.
- Hawk-i™ for F6A is compatible with ANDROS F5, F6A, F6B, HD-1, HD-1J.
- Hawk-i™ is compatible with 12-gauge PAN™ disrupter; contact us about support for Benelli Super 90.

The Hawk-i™ Video Aiming Device can also be utilized in conjunction with the Cobra Sight™ Laser Aiming Device.

Notes:

1. Rev 2 systems and later
2. Measured from face of video module
3. Requires programming for given barrel configuration at factory

System P/N(s)	Description	Component P/N	Component Description	Weight (lbs)	Dimensions (inches)
B00272-D00	Hawki for Teodor (PAL)	B00006-D00	CEU	1.2	5.5 x 3.25 x 1.75
		B00004-D02	Video Module	0.6	3.25 x 2.25 x 1.75
		72-1031-24086	CEU Cable	0.2	18 long
		72-1031-26008	Video Cable	0.2	28 long
		23-6416-0141	Mounting bracket	0.3	5.48 x 3.00 x 0.25
		B00659-D02	Hardware Kit	0.1	6-32 3/16" Phillips screws (CEU to mounting plate) two (2) x 8-32 3/16" set screws (video module to barrel)
		B00272-D00_IOM	Install/Operation Manual	0.2	17 pages 8.5 x 11
		B00274-D00	Carry Case	2.8	17.5 x 12.5 x 4.5
Total Weight of System:				5.6	
B00272-D01	Hawki for Teodor (NTSC)	B00006-D00	CEU	1.2	5.5 x 3.25 x 1.75
		B00004-D03	Video Module	0.6	3.25 x 2.25 x 1.75
		72-1031-24086	CEU Cable	0.2	18 long
		72-1031-26008	Video Cable	0.2	28 long
		23-6416-0141	Mounting bracket	0.3	5.48 x 3.00 x 0.25
		B00659-D02	Hardware Kit	0.1	6-32 3/16" Phillips screws (CEU to mounting plate) two (2) x 8-32 3/16" set screws (video module to barrel) 5/64" short-arm hex L-key 2" long (for set screws)
		B00272-D00_IOM	Install/Operation Manual	0.2	17 pages 8.5 x 11 (same as B00272-D00)
		B00274-D00	Carry Case	2.8	17.5 x 12.5 x 4.5
Total Weight of System:				5.6	
B00273-D00	Hawki for F6A	B00006-D00	CEU	1.2	5.5 x 3.25 x 1.75
		B00004-D00	Video Module	0.6	3.25 x 2.25 x 1.75
		72-1031-24085	CEU Cable	0.2	18 long
		72-1031-26008	Video Cable	0.2	28 long
		B00276-A00	Mounting bracket	0.4	5.48 x 3.00 x 0.25
		B00659-D00	Hardware Kit	0.1	four (4) x 10-32 3/8" Phillips screws (CEU to mounting plate) two (2) x 10-24 1/2" Phillips screws (mounting plate to robot) two (2) x 8-32 1/2" Phillips screws (mounting plate to robot)
		B00273-D00_IOM	Install/Operation Manual	0.2	16 pages 8.5 x 11
		B00274-D00	Carry Case	2.8	17.5 x 12.5 x 4.5
Total Weight of System:				5.7	

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System P/N(s)	Description	Component P/N	Component Description	Weight (lbs)	Dimensions (inches)
B00273-D01	Hawki for AFMSR	B00006-D00	CEU	1.2	5.5 x 3.25 x 1.75
		B00004-D00	Video Module	0.6	3.25 x 2.25 x 1.75
		72-1031-24085	CEU Cable	0.2	18 long
		72-1031-26008	Video Cable	0.2	28 long
		B00276-A00	Mounting bracket	0.4	5.48 x 3.00 x 0.25
		B00659-D00	Hardware Kit	0.1	(4) x 10-32 3/8" Phillips screws (CEU to mounting plate) (2) x 10-24 1/2" Phillips screws (mounting plate to robot) (2) x 8-32 1/2" Phillips screws (mounting plate to robot) (2) x 8-32 3/16" set screws (video module to barrel) 5/64" short-arm hex L-key 2" long (for set screws)
		B00273-D00_IOM	Install/Operation Manual	0.2	16 pages 8.5 x 11 (same as B00273-D00)
		B00274-D00	Carry Case	2.8	17.5 x 12.5 x 4.5
		Total Weight of System:	5.7		
B00797-D00	Hawki for TALON	B00006-D00	CEU	1.2	5.5 x 3.25 x 1.75
		B00004-D00	Video Module	0.6	3.25 x 2.25 x 1.75
		72-1031-00101	CEU Cable	0.2	24 long
		72-1031-26008	Video Cable	0.2	28 long
		B00276-A00	Mounting bracket	0.4	5.48 x 3.00 x 0.25 (see Note 1 below)
		B00659-D00	Hardware Kit	0.1	(4) x 10-32 3/8" Phillips screws (CEU to mounting plate) (2) x 10-24 1/2" Phillips screws (mounting plate to robot) (2) x 8-32 1/2" Phillips screws (mounting plate to robot) (2) x 8-32 3/16" set screws (video module to barrel) 5/64" short-arm hex L-key 2" long (for set screws)
		B00797-D00_IOM	Install/Operation Manual	0.2	16 pages 8.5 x 11
		B00274-D00	Carry Case	2.8	17.5 x 12.5 x 4.5
		Total Weight of System:	5.7		
B01039-D00	Hawki for Telemax	B00006-D00	CEU	1.2	5.5 x 3.25 x 1.75
		B00004-D02	Video Module	0.6	3.25 x 2.25 x 1.75
		72-1031-24087	CEU Cable	0.2	18 long
		72-1031-26008	Video Cable	0.2	28 long
		B00276-A00	Mounting bracket	0.4	5.48 x 3.00 x 0.25
		B00659-D00	Hardware Kit	0.1	(4) x 10-32 3/8" Phillips screws (CEU to mounting plate) (2) x 10-24 1/2" Phillips screws (mounting plate to robot) (2) x 8-32 1/2" Phillips screws (mounting plate to robot) (2) x 8-32 3/16" set screws (video module to barrel) 5/64" short-arm hex L-key 2" long (for set screws)
		B01039-D00_IOM	Install/Operation Manual	0.2	15 pages 8.5 x 11
		B00274-D00	Carry Case	2.8	17.5 x 12.5 x 4.5
		Total Weight of System:	5.7		

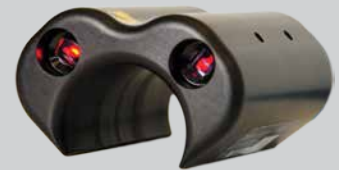
Hawk-i™ Benefits:

- The automatic crosshairs created by the Hawk-i™ video aiming system enables faster action, as less guesswork is involved in creating a target shot
- Compatible with all 12-gauge PAN™ Disrupters
- Significant improvement over venetian blind
- Increased effectiveness is also guaranteed, as less time will need to be spent on aiming
- When used in union with the Cobra Sight™ Laser Aiming Device, the effectiveness and accuracy of aiming at targets increases
- The aiming system also decreases the chances of human error causing misfiring



Cobra Sight™ Laser Aiming Device:

The Cobra Sight™ Laser aiming device is an inventive new tactical device which utilizes true boresight technology. With this aiming device the end of the barrel remains uncovered, making zeroing in much faster. Two line lasers are utilized to project a true crosshair on your target for ranges greater than 7 inches without adjustment. With the Cobra Sight™ Laser, a more precise shot is guaranteed.



To learn more about API Technologies Power Solutions, including the Hawk-i™ Video Aiming Device or Cobra Sight™ Laser Aiming Device, please contact +1 (888) 588-3448 or email powersales@apitech.com

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