

BID SPECIFICATIONS

SCOTT SIGHT

Intent of Specifications:

This specification covers a hands-free, in-mask, mission critical technology that is always available to the firefighter. The system has been designed to provide thermal imaging for baseline intelligence today and new safety enhancements in the future. The Camera System, The Mask Mounted TIC (TIC) and In-Mask Display (Display), delivered shall be a standard commercial product that meets the requirements of these specifications. Exceptions to any of the line items are not acceptable. Materials used in construction of The Camera System shall be new, unused, and not less than the quality conforming to modern engineering and manufacturing practices. Materials shall be free of defects and suitable for the service intended.

	Compliance	
	Yes	No
Warranty and Certifications		
1. The Camera System shall be warranted by the manufacturer to be free of defects for a period of two years from the date of delivery.		
2. The Camera System shall carry the following approvals: NIOSH 42CFR part 84, NFPA 1981:2013, CBRN, and UL 913 6th edition, ATEX, & IECEX.		
3. The Camera System shall be compatible with the AV3000HT face piece and and 2013 Edition X3, AP-75 and Propak SCBA's.		

Physical and Performance Specifications		
1. The Camera System shall be capable of sensing, imaging, and displaying infrared radiation in the 8 to 14 micron spectral wavelengths.		
2. The TIC shall be hands-free and mounted to the SCBA face piece. The Display shall be mounted inside the face piece and not require the use of hands to view the screen.		
3. The TIC shall be equipped with an infrared imaging sensor consisting of no less than 19,200 imaging pixels.		
4. The TIC shall be equipped with a Germanium Window protecting the optical lens. The window shall incorporate anti-reflective and hard carbon coating to minimize damage during operation.		
5. To ensure the waterproofing integrity of the TIC and Display in all situations, the TIC and Display shall be designed to isolate the internal electronic systems from all user accessible areas. The TIC and Display shall conform to the IP66 and IP67 standard.		
6. The Camera System, including batteries, shall weigh no more than 8 1/2 ounces.		
7. The TIC shall use three AAA Alkaline batteries and be capable of operating for 4 hours (nominal).		
8. The Display shall use two AAA Alkaline batteries and be capable of operating for 4 hours (nominal).		
9. The TIC shall be equipped with a illuminating LED indicating when the TIC is powered ON.		
10. The Camera System shall be tested for resistance to heat and shall withstand a minimum of 500°F for 5 minutes.		

