



Preparedness Directorate
Office of Grants and Training

Summary



The U.S. Department of Homeland Security, Preparedness Directorate, Office of Grants and Training (G&T) established the System Assessment and Validation for Emergency Responders (SAVER) Program to assist emergency responders in performing their duties. The mission of the SAVER Program is to

- Provide impartial, practitioner relevant, and operationally oriented assessments and validations of emergency responder equipment.
- Provide information that enables decision-makers and responders to better select, procure, use, and maintain emergency responder equipment.
- Assess and validate the performance of products within a system, as well as systems within systems.
- Provide information and feedback to the user community through a well-maintained, Web-based database.

The SAVER Program established and is supported by a network of technical agents who perform the actual assessment and validation activities. Further, SAVER focuses primarily on two main questions for the emergency responder community, "What equipment is available?" and "How does it perform?"

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Closed Circuit Television Technology Handbook

Closed Circuit Television (CCTV) systems have been on the market for over fifty years, existing primarily as commercial off-the-shelf (COTS) products and technologies. They are integrated into a wide range of security systems for not only surveillance, but also for access control and for forensic use in determining the origins of criminal activity.

The CCTV Technology Handbook, published by the Space and Naval Warfare Systems Center (SPAWARSYSCEN), Charleston, provides emergency responders, law enforcement, and security professionals with a reference containing brief summaries on current CCTV technologies, capabilities, and limitations. In addition, the handbook explains the theory behind CCTV development and describes the components in a CCTV system as used for access control, surveillance, and forensic applications.

Thermal camera (right).
Image from a thermal camera (below).



The technologies described in the handbook include cameras, lenses, transmission systems, monitors, and multiplexers as well as a section on considerations in selecting a CCTV system. The handbook provides a short history of CCTV and a brief discussion of emerging CCTV technologies.

A vendor/product matrix is provided identifying the associated technologies used in the market research and vendor contact information, but it is not intended to be an all-inclusive list of equipment suppliers or models. In addition, a glossary and an acronym list is provided at the end of the handbook to assist the reader with the terms found in the handbook.

Information on specific sensors and manufacturers was derived, in part, from information received in response to a request for information placed in the Commerce Business Daily, posted on the FedBizOps.gov Web site on October 21, 2004. Additional research was conducted using the Internet, security conferences, and trade shows to gather information on available CCTV technologies, products, and vendors. Limited direct contact was made with government, civilian, and vendor personnel to further the research process.

No assertion is made that the handbook is comprehensive in its breadth or depth. It is introductory-level information and should not be considered definitive in planning or implementing a CCTV system. Such efforts should be undertaken only in consultation with organizations experienced in the various phases of planning, constructing, testing, operating, and maintaining comprehensive CCTV systems for access control, surveillance, or forensic applications.

Vendor information was not altered or edited. The United States Government did not conduct independent tests of any of the CCTV products or systems and does not warrant, guarantee, or endorse any of these devices. CCTV technologies under development or restricted to military use are not included in the handbook, while emerging technologies related to CCTV applications are discussed briefly.

The full report can be found on the SAVER Web site along with other SPAWAR/SYSCEN reports dealing with CCTV technology.



SAVER is sponsored by the U.S. Department of Homeland Security, Preparedness Directorate, Office of Grants and Training.

For more information on the CCTV technology project please see the SAVER Web site or contact the SAVER Program Support Office.

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