

## 6. Night vision equipments

Night-vision equipment can be split into three broad categories:

### 6.1 Scopes

Normally handheld or mounted on a weapon, scopes are **monocular** (one eye-piece). Since scopes are handheld, not worn like goggles, they are good for when you want to get a better look at a specific object and then return to normal viewing conditions.



Figure 5- scope (monocular)

### 6.2 Goggles

While goggles can be handheld, they are most often worn on the head. Goggles are **binocular** (two eye-pieces) and may have a single lens or stereo lens, depending on the model. Goggles are excellent for constant viewing, such as moving around in a dark building.



Figure 6- goggles worn on the head

### 6.3 Cameras

Cameras with night-vision technology can send the image to a monitor for display or to a VCR for recording. When night-vision capability is desired in a permanent location, such as on a building or as part of the equipment in a helicopter, cameras are used. Many of the newer camcorders have night vision built right in.



Figure 7- camera used for night vision

# Night Vision Technology Report

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## Night Vision Technology Report:

**Selected Papers on Night Vision Technology** R. Hradaynath, 2001 This collection of 104 papers is divided into two parts Part One Image Intensification focuses on developments with image intensified tubes Part Two Thermal Imaging concentrates on the practical applications of night vision technology for its main users the armed forces **Scientific and Technical Aerospace Reports** ,1995 **House Reports** , Aeronautics and Space Report of the President ... Activities United States. President,1990 **Understanding Low Vision** Randall T. Jose,1983 A thorough review that covers fundamentals assessment clinical services training and instructional services and future directions The author establishes a framework for understanding the impact of low vision on functioning learning and psychosocial status Special sections contain chapters reports technical materials curriculum guides resources and questionnaires by experts from 21 areas

**Department of Defense Authorization for Appropriations for Fiscal Year 1998 and the Future Years Defense Program: Acquisition and technology** United States. Congress. Senate. Committee on Armed Services,1997 105-1 Hearings: Department of Defense Authorization for Appropriations for Fiscal Year 1998 and The Future Years Defense Program, S. Hrg. 105-37, Part 5, Acquisition and Technology, March 11, 19; April 10, 15, 1997 ,1997 *Department of Defense Appropriations for ...* United States. Congress. House. Committee on Appropriations,1983 **Department of Defense appropriations for 1983** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1982 *Department of Defense Appropriations* United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1983 **Army RD & A.** ,1974 *Army Research and Development* ,1972-07 **Army RD & A Bulletin** ,1974 Comprehensive Report of the Special Advisor to the DCI on Iraq's WMD. Charles Duelfer,2004 This report relays the findings of the Special Advisor to the Director of Central Intelligence on Iraq s Weapons of Mass Destruction *Comprehensive Report of the Special Advisor to the DCI on Iraq's WMD, with Addendums* ,2005 **Designing Soldier Systems** John Martin,Laurel Allender,Pamela Savage-Knepshield,John Lockett,2018-05-20 This book focuses on contemporary human factors issues within the design of soldier systems and describes how they are currently being investigated and addressed by the U S Army to enhance soldier performance and effectiveness Designing Soldier Systems approaches human factors issues from three main perspectives In the first section Chapters 1 5 focus on complexity introduced by technology its impact on human performance and how issues are being addressed to reduce cognitive workload In the second section Chapters 6 10 concentrate on obstacles imposed by operational and environmental conditions on the battlefield and how they are being mitigated through the use of technology The third section Chapters 11 21 is dedicated to system design and evaluation including the tools techniques and technologies used by researchers who design soldier systems to overcome human physical and cognitive performance limitations as well as the obstacles imposed by environmental and operations conditions that are encountered by soldiers The

book will appeal to an international multidisciplinary audience interested in the design and development of systems for military use including defense contractors program management offices human factors engineers human system integrators system engineers and computer scientists Relevant programs of study include those in human factors cognitive science neuroscience neuroergonomics psychology training and education and engineering      **Technical Reports Awareness**  
**Circular : TRAC.** ,1987      Justifications of the budget estimates, Department of Justice United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Commerce, Justice, and State, the Judiciary, and Related Agencies,2000      **Signal** ,1988      *Technical Abstract Bulletin* ,1979

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