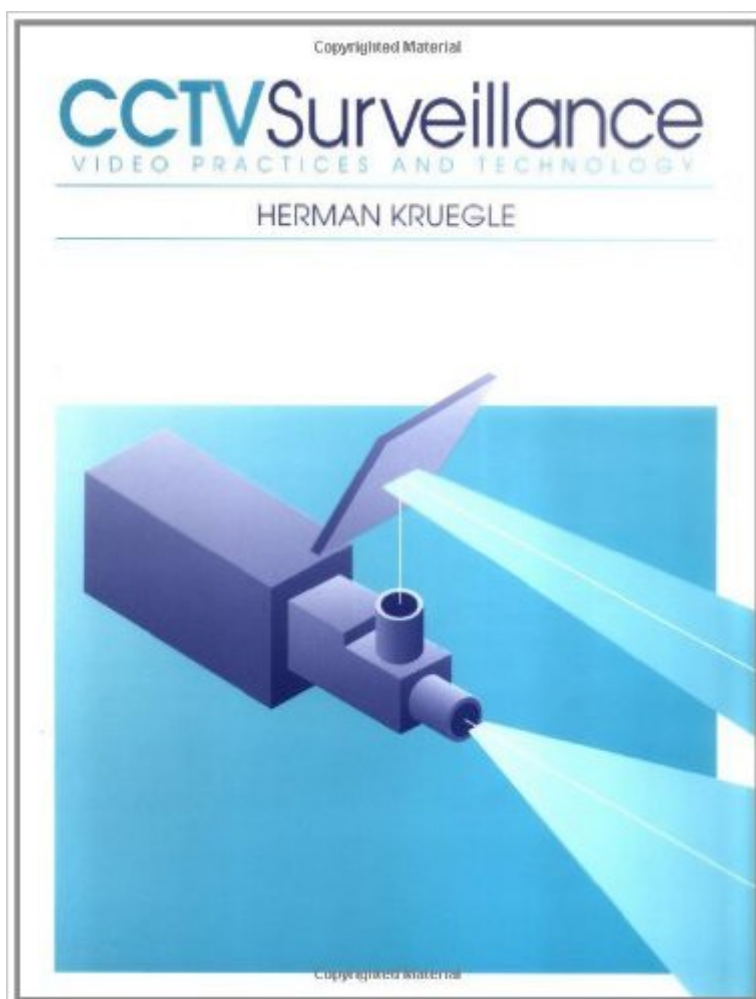


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# CCTV Surveillance: Video Practices And Technology



## **Synopsis**

The past decade has seen closed circuit television (CCTV) technology emerge as a distinct entity within the large and developing security industry. Its successful implementation requires understanding of many technical disciplines, all of which are detailed in this book. From scene illumination, to signal transmission, to display and recording technology, CCTV Surveillance is the only book available which teaches all the aspects of CCTV. CCTV has become the crucial ingredient in the overall security system. Just as the proverb 'a picture is worth a thousand words' applies in everyday life, so too does the CCTV picture provide the essential ingredient to the successful security system. CCTV Surveillance is written in a format useful to the student interested in security, the system designer, consultant, architect and engineer, as well as the end user-management or the security director. The book covers CCTV from theory to equipment to application, from light source to final monitoring, recording and printing - and everything in between. Much of the design theory is written in generic form and is applicable to all forms of CCTV use. Specific subjects covered include: the need for CCTV, the safety/security scenario, cover cameras transmission, monitors, switchers, camera housing, recorders, printers, image intensifiers and accessories. Each chapter begins with an overview of the subject for the manager and security director, and proceeds with the theory, design and hardware information essential for successful implementation. All chapters are well illustrated - diagrams, tables, photographs to provide complete information for all reader categories. The applications chapter provides seven practical examples with layouts, schematics and a bill of materials (BOM) for the complete CCTV systems. A comprehensive glossary defines terms generic to CCTV and electro-optics and aids to understand the subject. A complete reference on CCTV technology. Gives practical advice on the proper uses of CCTV to best protect against crime. Contains more than 100 photos of the most modern equipment available.

## **Book Information**

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## Customer Reviews

First, I'll agree that this book is outdated. It was written on the edge of the Dot Com boom, when the entire CCTV industry was still based on analog equipment. This is why I am not giving it the full 5 stars. Critique of this book: The previous reviewer complains about the book not discussing digital video servers - but in chapter 8 this book DOES talk about storing video on hard drives and on optical disks. In 1995 optical disks were the most cost effective method of storing video. The previous reviewer also complains that this book doesn't describe Frames and Fields, and that too is a valid complaint, but one that should not be held against this book due to the time it was published. This book is meant as an overview for the CCTV professional just starting out in the CCTV industry. It is not meant to be an engineer's handbook on how PAL or NTSC video is constructed, and it does not go into the mathematics of video. Kruegle was not concerned with explaining video Frames or Fields because these concepts were only of interest to CCTV design engineers. Frames and Fields only became important to the layman when explaining to the layman about storage of video in a digital format. Video servers were not mentioned because in 1995 video servers were rare and costly. In 1995 when this book was published, hard drive storage cost 23 to 24 cents per megabyte. Today (Feb 2005) hard drive storage costs 6 to 7 cents per 100 megabytes. A video storage system that uses 16 cameras would need to store 480 images a second for real-time video. If the average image size were 9 KB, then one day of storage would require 373 GB of storage. In 1995 this storage would have required two hundred twenty seven top of the line 1.

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