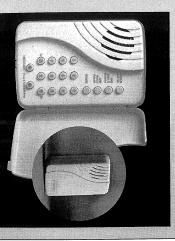
PRODUCT PREVIEWS



option, two-way voice, remote telephone control and a new siren driver. Two-way voice is available as an optional module or an integrated feature. Other features include voice zone Way RF Touchpad gives verbal supervisory and alarm reports up to 500 feet away from the panel. The popular high-volume control panel now features 24 zones, a rechargeable battery backup descriptors, light Wireless Talking Touchpad
Designed to add flexibility and greater security, the new TouchTalkTM Twoтумо, иди control and remote protection. Installation is easy in control and

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All-Weather Hand-held Transceivers

ty providing reliable two-way communications for police, fire, utility and emergency service personnel. Weather-proofed against extreme storm conditions, the units also deliver clarity under noisy conditions like emergency and industrial environments, utilizing noise-cancelling microphones and 1.77" speakers. The seven character alphanumeric name-tags at the top of the units provide a group number and easy-to-read icons, and can be illumi-nated for dark conditions. Also includtransceivers have ed is the versatile toggle switch which can invert the display for easy reading The TK-290 VHF and TK-390 UHF a 160 channel capaci

Overcoming Technical Surveillance Videotapes Objections to the Admissibility of

the original does not make it inadmissible. However, where the editing disrupts the sequence and chronology of events, results in a lack of continuity, or creates confusion, the videotape will be excluded from evidence by the Judge.

called "in-camera"

editing

ELLIOTT GOLDSTEIN, B.A. LL.B

Consider the following facts

ished dealing with a customer. The money drawer of the cash register was still open and the security officer saw the cashier place her left hand in the \$20.00 slot of the cash drawer, place her right hand underneath her left hand, make a pulling motion with her right, and slide a \$20.00 bill into the palm of her hand. She then removed both hands department store closely watched the CCTV monitor of camera No. 1 <1>. The surveillance target — a cafeteria cashier suspected of theft — had finished dealing with a customer. The from the cash drawer and officer of a closed

The senior security officer then observed the CCTV monitor of camera No. 2 and saw the same cashier move from the cash desk, bring her right hand out of the pocket of her smock and make a flattening motion against that The officer then

At her trial, the presiding judge stated that, while watching the playback of the videotape on a television set in the courtroom, he did not see the removal of the \$20.00 dollar bill from the slot in the drawer of the cash register. The Judge stated that all he could see was two hands and much static The cashier was charged with theft

Judge, the senior security officer admitted that the videotape did not present to the court an accurate picture of what that witness observed on the CCTV Under questioning by the trial

moment", monitor in the department store.

The surveillance videotape did not show the alleged theft from the cash register. Why? Because at the "vital video picture interference broke

That interference came from a UHF radio used by the senior security officer to order other security officers to apprehend the accused. <2>
These facts were extracted from a real case in which 'static distortion' possibly caused by radio frequency (RF) or electro-magnetic (EM) interference rendered the surveillance videotape an inaccurate reproduction of an alleged crime <3>. The result? The trial judge found the accused not guilty as there was no videotape evidence of the alleged thef.

arises at a vital being shown, as above. If the given to the videotape if that distortion Distortion caused by RFI and EMI ital moment in the c.

i, as happened in the c.

ii. distortion affects in the event

weight, then the trier of fact (i.e., the jury or, in a non-jury case, the judge) must decide how much emphasis will be into evidence the trier of l the trier the judge) admitted idence by er of law

ground the camera and VCR. Another solution is to avoid using equipment that generates EMI and RFI. Beware of ground faults and loops that are the cause of horizontal tearing or flagging in the top third of a video picture <4>.

Don't forget to use surge protectors to prevent power spikes from damaging sensitive cameras, monitors, and VCRs

Technical objections to the admissibility of surveillance videotapes in RFI and EMI is to properly shield and ground the camera and VCR. Another placed upon the surveillance videotape.
One solution to the problem of

be that lawyers are not familiar with the technical grounds for objecting to surveillance videotapes or, it may be that few "distorted" videotapes are tendered in evidence. Whatever the reason, it is in the best interests of everyone in the alarm and security industry to prevent the problems that may give rise to technical objections. Summarized below are some grounds for objecting and suggested steps that can be taken to forestall them

tion is not properly set; or, (c) the colour controls (hue or 'tint' and saturation) on the playback monitor are not videotape will not accurately reproduce colours if: (a) the light used to illuminate the scene is not full spectrum; (b) the video camera's while balance functions. accurately reproduce the colours in a scene will be excluded from evidence. A rejected Likewise, videotapes that do jected colour photographs that reproduce the true colours of a Colour inaccuracy Courts

use of filters, and the recording of a set of colour bars on the first few minutes of a videotape (for use in adjusting the colour controls on the playback moniproperly adjusted.

These problems can be lessened or illumination of even avoided by proper illuthe scene being recorded, ne being recorded, proper call-of the camera's while balance,

2. Light sensitivity distortion — Over or under-exposure is another basis for objecting to a videotape's admission in evidence. Glare problems can be

reduced or eliminated entirely by using polarized filters <5>.

3. Editing — just because the tape tendered in court is an edited version of ابند because the tape - just because the tape انجما version of

admissibility, the surveillance videotape will plished by switching the camera off and on or using the "PAUSE" control, may result in "gaps" in the tape. These "gaps" resulted in a videotape being rejected in a British Columbia case (R. v. Miller) because there was no solid evidence that the entire transaction was reproduced of the two instances which the Crown alleged formed the basis for the criminal charges <6>. The court concluded that the videotapes were unreliable as being misleading due to their intermittent

gered by a motion detector, was installed in a room where money was kept overnight. Some videotapes were rejected because of the unreliable manner in which the switching occurred between intermittent and continual recording. All videotapes admitted at trial were the outcome of constant, realand went from recording an image every six seconds to continual, real-time recording. The hidden camera, trigadmitted some videotapes recorded automatically by a surveillance camera that reacted to movement in the room (R. v. Caughlin) <7>, the County Court nature. In another British Columbia camera, trig-detector, was case

editing, it is very important that a time-date code be recorded on the videotape and appear on a part of the screen that does not cover up or mask important events. Also, remember to keep all source videotapes (i.e., the tapes actually recorded by the VCR) and make ly recorded by the VCR) and make them available to the court along with edited copies. This will forestall a time recording free of interruption.

To forestall an objection based on

defence objection that important information is not disclosed to the court!

Please consult your lawyer or a local Crown Attorney, if in doubt about the admissibility of a particular surveillance

which recorded those signals on videotaps nerator superimposed on the videotapes and date (H:M:S and M:D:Y) as the tape

being recorded.

2. See section 13.7 ("Surveillance in the Workplace 2. See section 13.7 ("Surveillance in the Workplace Technical Issues") in Goldstein, E., Visual Evidence: A
Practitioner's Manual (Toronto: Carswell Legal Publishing,
1991, updated twice yearly). To order a copy, call Carswell's
Customer Service, toll free at 1-800-387-5164, from anywhere in Canada or the U.S. and quote Order # 9362615345

3. See R. v. Lunsted (February 21, 1984), Doc. No. 42449, British Columbia Provincial Court, per Judge Davies.

4. For information on how to recognize g conditions and trouble shoot ground loops, a Pierce's excellent text entitled, The Professional CCTV, published by L.T.C. Training Centre 3583, Davenport, IA 52808. Ph. (319) 322-666 (800)-358-9393; Fax: (319) 324-7938. Websit

5. See section 3 of Pierce, C., The Professional' Guide to CCTV, cited above. 6. See R. v. Miller (1986), 17 W.C.B. 382 (B.C. Co

7. See R. v. Caughlin (1987), 18 B.C.L.R. (2d) 186 40 C.C.C. 247 (Co. Ct.).

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