THE USES AND BENEFITS OF ILFORD SURVEILLANCE FILM

Surveillance film camera systems are an effective tool against crime. A photographic film system, as opposed to an electronic system, gives evidence of the highest quality if a crime takes place.

16mm FILM SYSTEMS

16mm surveillance films are used in still sequence (also called continuous or time lapse) photographic recording cameras in banking halls and other similarly secure areas, where photographic surveillance is needed. Photographic records can then be used when investigating fraudulent transactions, such as cashing a stolen cheque.

A control unit usually operates the cameras during office hours, with some systems being linked to the alarm system in the case of robbery.

Depending on individual requirements, cameras can be set to operate at up to six frames a minute. The rolls of film are generally long enough for the camera to run for one or more weeks without attention. 16mm film is usually used for economic reasons.

16mm AUTOMATIC TELLER MACHINES (ATMs)

Another main use of 16mm surveillance film is in ATMs (also known as cash dispensers). The ATM camera is usually hidden behind special glass or may use a pinhole lens. It is set to photograph each customer as they withdraw money. Photographs obtained can be used to solve customer disputes or to identify the users of stolen bank cards.

35mm FILM DEMAND SYSTEMS

Demand systems are mainly intended as a tool to combat crime, especially fraud and robbery. There is also the assurance that if an incident does occur, then extremely high quality photographic images will be recorded.

These systems are used in banks, building societies, post offices and some retail outlets where goods, cash, or staff are at risk. Other applications include camera ports on security trucks carrying large amounts of money or valuables, car or tool hire shops and security gates.

Various trigger devices, often connected to the alarm system, can be used to operate the camera if a robbery occurs. Exposures take place at a rate of two frames a second. A suspicion switch is also generally available to expose just a few frames.

A 35mm film system is often the most appropriate choice for demand recording because it gives higher quality images and is cheaper to buy than an electronic system. A high speed film such as ILFORD SURVEILLANCE 400 is normally the best choice to obtain high quality images in most circumstances. When lighting conditions are particularly poor, ILFORD SURVEILLANCE 400 can be exposed at up to EI 3200/36 and then push processed.
SURVEILLANCE FILMS

BENEFITS OF ILFORD SURVEILLANCE FILMS
ILFORD SURVEILLANCE films offer several technical benefits compared with electronic systems.

Excellent image quality
ILFORD SURVEILLANCE films give outstanding resolution, sharpness and tonal information. High quality photographic evidence is most effective in obtaining successful prosecutions for serious crime.

ILFORD SURVEILLANCE films have a high sensitivity to light, which allows fast shutter speeds to be used, so that image movement can be minimised. Typical electronic systems tend to give noticeable image blur when a subject is walking or running.

Wide field of view
The field of view of each camera is considered when setting up a system. As the angle of view is increased by using different lenses, image quality is always reduced (because features in the scene become smaller on the film or electronic imaging device). Because of the superior imaging quality of photographic film, good quality images can be obtained over a wider area than with an electronic system. This means that fewer film cameras are needed to cover a particular area.

Wide exposure latitude
The exposure latitude of ILFORD SURVEILLANCE films is excellent and considerably greater than electronic systems. Wide exposure latitude ensures that usable prints are obtained under a wider range of lighting conditions, including backlighting.

Image optimisation after exposure
The wide exposure latitude of ILFORD SURVEILLANCE films ensures that standard processing will normally give negatives of high quality. If exposure conditions are extraordinary, down rating or push processing film is possible to achieve usable results.

Acceptability of results
Photographic images cannot easily be manipulated or edited as is possible with electronic recording. Many law courts worldwide will not accept electronic images.

Robust and easy to store
Processed film is extremely stable and cannot be erased by exposure to a strong magnetic field or easily damaged by heat or sunlight. Photographic systems are also robust, relatively simple to use and reliable.

ELECTRONIC SYSTEMS
There are applications where an electronic system may be more suitable. For example, electronic camera systems allow a security officer to monitor several remote locations over extended periods. Also, instant recording is a feature which is particularly effective against shoplifters. Other applications include access control in a variety of high security sites.

Even in these cases, though, the appropriate choice for a particular location may be a combination of both a surveillance film system and an electronic system. For example, an electronic system for routine monitoring with a surveillance film on-demand camera to capture quality images when necessary.

COLOUR FILM SYSTEMS
Some customers prefer to use colour film systems because of the extra colour information obtainable. However, ILFORD SURVEILLANCE films offer several advantages over colour film:

- More robust to adverse temperatures
- Better resolution
- Better push processing characteristics
- Lower grain
- Less critical processing and printing requirements

AVAILABILITY
ILFORD SURVEILLANCE films are available in 16mm and 35mm format, in a range of lengths. They are supplied on the usual spools and cores used in surveillance cameras.

Medium speed films: SURVEILLANCE 200-A5
High speed films: SURVEILLANCE 400-P4
SURVEILLANCE 400-P3

HARMAN technology Limited, Town Lane, Mobberley, Knutsford, Cheshire WA16 7JL, England
www.ilfordphoto.com
FILMS

SPOOLs AND COREs

MOTION PICTURE - SURVEILLANCE - CUT LENGTHS - CINERADIOGRAPHY - COREs

16mm FILM

35mm FILM
FILMS

SPOOLS AND CORES

MOTION PICTURE - SURVEILLANCE - CUT LENGTHS - CINERADIOGRAPHY - CORES

KEYWAY DIMENSIONS

16mm FILM

125mm

92mm

32mm

16mm

K10 (daylight)

RK512

K14

35mm FILM

93mm

92mm

24.5mm

24mm

35mm

M30

K30

Y30

70mm FILM

92mm

24.5mm

70mm

Pos 1
FILMS

PERFORATIONS AND WINDINGS

SPA

DNIP 35mm

DPP 35mm

16mm

SPB