

Video Technology Ltd

Innovative video systems for Military and Law Enforcement

K9-eye

COFDM digital technology for ultimate performance and security

Police dog wireless camera system



Credit to Max for all his help.



Pictures show complete equipment.

This latest version of the system uses digital COFDM transmission technology for greatly enhanced performance, offering increased signal penetration, freedom from drop-outs and exceptionally high security from unauthorised interception. State-of-the-art transmitters and receivers allow extended battery life with no weight penalty for the dog to carry.

Versions of the K9-eye system are in operational service with Police and Military units throughout the UK and overseas.

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This second generation of the well-proven system uses advanced COFDM digital radio transmission techniques to deliver greatly-enhanced performance compared to the earlier analogue technology (which is still available where appropriate).

The system comprises a miniature colour camera and state-of-the art digital radio transmitter mounted on a lightweight head harness. There is a quick-release facility, allowing the harness to be worn at all times the dog is operational if required whilst the camera is attached only when needed. Rechargeable batteries are also contained in the camera housing, eliminating external power sources and connections.

To allow operation in darkness, lights are incorporated in the camera housing, and provide pictures in total darkness to a range of 5 -10 metres from the dog. White lights or infra-red are available, depending on the requirement for covert operations.

An audio facility is also provided, allowing any sound or conversation in the vicinity of the dog to be recorded

Pictures are viewed on an integrated video recorder/monitor/receiver unit with a 15cm (6") screen for easy viewing.

Optional equipment.

A heavy-duty waterproof carrying case is available to contain the complete equipment and accessories.

Each user will choose equipment to meet their specific operating requirements, but a typical system will comprise a camera and harness, recorder/receiver/monitor unit, battery charger for camera and recorder and a carrying/storage case. Common extras are additional harnesses for other dogs, (allowing each user to keep the correct adjustments permanently on their harness), and maybe a second type of camera.

A camera adaptor fitted to a telescopic pole is available, allowing the camera to view over walls and fences, into lofts and roof spaces or round corners without exposing the officer to potential danger or line of fire.

Further features that can be interfaced with the system are additional receivers for incident commanders, uplinks to airborne support or central control units, and network transmission of pictures via internet.

We are also able to provide custom-designed systems for many law enforcement and military applications, such as dual-camera units, alternative sensors, GPS tracking and others. If you have a particular requirement that you would like to discuss (or even just a 'wish list'), please contact us.

Specifications

Camera unit:

Miniature solid-state unit, 1/4" CMOS sensor.
PAL and NTSC television standards are available to suit location.

Housing:

Custom-designed injection-moulded unit, contains camera, transmitter unit, battery, lights, and on/off switch. Detachable antenna for easy field replacement in case of damage.
Battery life is 1-1^{1/2} hours in normal use.

Head harness:

Nylon webbing with buckle and Velcro adjustment, has quick-release mounting for camera housing allowing harness to be worn at all times, but camera only when required.
Available in 3 sizes to suit different breeds of dog.

Weights:

Camera housing assembly: 240g (7½oz)
Harness: 150g (5¼oz)

Recorder/receiver/monitor unit:

Miniature, lightweight unit comprising omni-directional diversity antenna system, receiver/recorder/monitor unit with 5.6" screen. Recording to SD card; two SD slots allow uninterrupted recording. Battery life is up to 6 hours.

Recording time:

Normally, the highest quality will be used; at this setting, approximately 30 minutes per GByte of memory is available. SD memory cards are available with up to 32Gb capacity. A 4Gb card is supplied with the equipment. Cards can be replaced in a few seconds.

Security:

The COFDM technology provides exceptionally secure transmission, and every frame of video is electronically stamped with time and date.

Weight:

600g (14oz)

Wireless link:

1- 1.4 GHz, COFDM (**C**oded **O**rtogonal **F**requency **D**ivision **M**ultiplexing)
Licences may be required according to your location.
Transmission powers available: 60mW, 250mW
Higher power options may be limited by legislation depending on your location.

Range:

Range will depend entirely on the local environment and transmitter power, but in clear field conditions, up to 1 Km (0.6 mile) can be expected. In general terms, the handler will normally be sufficiently close to the dog that a signal will be available at all times. The range and penetration comfortably exceeds earlier analogue systems.

Due to our policy of continuous product development, specifications may change without notice.
All Video Technology products are designed and built in England.