



# WESTMINSTER

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## WG5 Covert Fibre-Scope



The WG5 Covert Surveillance Kit is a group of 3 specialised fibre-scopes typically used in association with low noise drilling operations.

The kit contains two 1mm x 600mm fibre-scopes, one 0° forward viewing and one 65° side viewing, for use through pinholes.

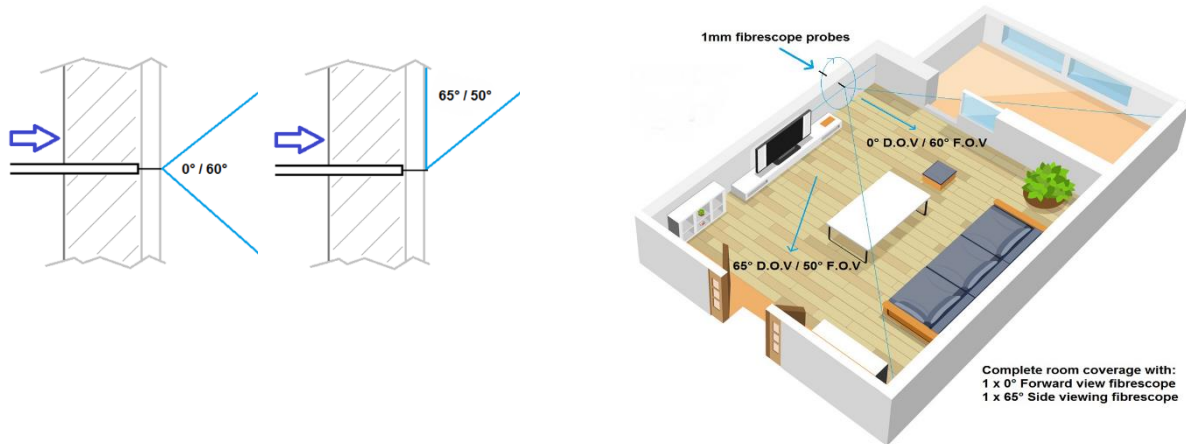
Also includes a 6mm x 600mm non-conductive 'obedient' fibre-scope for checking drilling progress. Viewing of the endoscope images can be made with the eye, or on the superb Getac T800 fully rugged tablet PC via the WG3 USB low light endoscope camera.

In addition, the WG5 includes a pinhole bullet microphone kit with special insertion tool and a basic set of two tactical motion sensors



## 1MM THROUGH WALL FIBRE-SCOPES

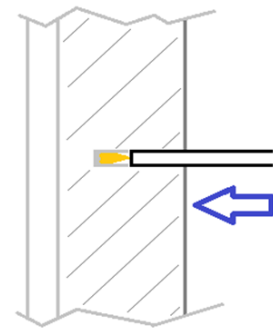
The 0° forward viewing direction instrument enables direct view into a subject room with a field of view of 60°. The 65° viewing direction version fills the blind space that cannot be seen by the 0° forward viewing model. If the 65° version is rotated, the entire inner surface of the wall can be scanned for objects or people. If both the 0° and the 65° versions are used during an operation the entire room can be covered. Please see examples below.



## OBEDIENT NON-CONDUCTIVE FIBRE-SCOPE

This fibre-scope has a 6mm diameter with internal illumination and an 'obedient' (position-able) insertion tube. The instrument is designed to be used to check the progress of holes being drilled. Such monitoring may be to view changes in building materials at different stages, dust build up, and most importantly the final pin-holing stage. As it may be used many times during an operation, the insertion tube is finished with a tough black plastic outer covering to minimise metal scratching noises.

The covering and tip are also non-conductive (spark-proof) for safety when checking unknown areas inside walls. The LED light source operates from 2 x AA cells, which are readily available. This instrument is normally used with the naked eye but can also be connected to the Getac T800 via the WG3 camera.



## GETAC T800 WINDOWS TABLET PC

The Getac T800 is selected as the ultimate viewing device for the WG3 system. It's compact 8" screen size and tough design are just the beginning of the list of features. The unit is ruggedized to MIL-STD 810G and IP65 water/dust resistant, with long battery life. Most importantly it utilises a USB3 port which means the latest WG3 endoscope camera can be deployed. Viewing of the images is made using the pre-loaded software. The viewing window size can be adjusted by dragging the corner of the window to the desired position. Image zooming is made by pinching the touchscreen or clicking +/- on the toolbar. A full menu of adjustable camera settings means that the optimum result can be obtained in varying light conditions. Once complete, the settings can be saved so that each time the system is opened they are the same as previously used. The software has still image and video recording facility.

Below is an example of the image through the 1mm 0° forward viewing fibre-scope in low light.



Please note that the live image will appear clearer than in this screenshot.



## WG3 USB LOW LIGHT ENDOSCOPE CAMERA

The most advanced low light endoscope camera. The sensor is a Sony IMX265 and utilises Sony's Pregius global shutter CMOS technology meaning crisp, clear distortion free images at high speeds. The lens interface is 'C-mount' and fitted with our 35mm endoscope coupler.

Resolution is up to a huge 2048 x 1536 pixels at 55frames per second. This specification far out-performs requirements for use with 1mm fibre-scopes and provides confidence that the very best image possible can be obtained through the fibre.

A full range of on-screen controlled camera settings are available such as Gain, Gamma, Exposure, Brightness, Sharpness and frame rate. All this enables a useable fibre-scope video image in low light conditions without graininess and with full speed motion (no 'stepped' video delay with fibre-scope movement).

The WG3, with the GetacT800 is probably the highest specification viewing combination that can be used with surveillance fibre-scopes.



## TACTICAL MOTION SENSORS

The tactical motion sensors are a wireless PIR motion detection system. A discreet alert signal (Vibration or earpiece beep) is sent to a pocket-sized receiver if a large object (human) passes within 3 metres of a sensor. The sensors are numbered 1 and 2, and the corresponding number will be indicated on the receiver. This way one can identify which sensor/area has been triggered. The system, although very simple is effective at providing perimeter security during a covert operation. This basic kit contains 2 sensors. The receiver is charged via USB, and the sensors are powered by high drain lithium 1/2 AA cells.



## PINHOLE MICROPHONE KIT

A 9mm diameter bullet sized pinhole microphone with specially made installation and extraction tools. A 2-piece (580mm length max) rigid guide tube is used to take the microphone into a pre-drilled hole. Supplied with the kit is a very compact high-quality amplifier unit with volume control, mic input and earphone output. The amplifier is charged via USB and supplied with earbud type headphones.



## TECHNICAL SPECIFICATION

- 1mm 0° fibre-scope
  - 1.0mm diameter x 600mm length flexible tough polymer insertion probe. 0° forward viewing with 60° field of view. 17,000-pixel resolution. Adjustable focus ~5mm – infinity. 31.75mm eyepiece.
- 1mm 65° fibre-scope
  - 1.0mm diameter x 600mm length flexible tough polymer insertion probe. 65° forward viewing with 50° field of view. 10,000-pixel resolution. Adjustable focus ~5mm – infinity. 31.75mm eyepiece.
- 6.0mm 0° fibre-scope
  - 6.0mm diameter x 600mm length semi flexible insertion probe. Non-conductive tip and covering. 0° forward viewing with 60° field of view. 17,000-pixel resolution. Adjustable focus ~5mm – infinity. 31.75mm eyepiece
- Guide tubes
  - 9.5mm outer diameter, 1.2mm inner diameter. 2 x 300mm connectable sections. Black acrylic plastic.
- WG3 USB C-mount camera
  - Sensor 1/1.8" CMOS Sony IMX 265. Resolution 2048 x 1536. 3.2 MP. Frame rate 55fps. Lens C/CS mount. Interface USB3. Operating temperature 0 – 45°C, storage -30°C +60°C. Dimensions 44 x 35 x 19.5mm
- Getac T800
  - Windows 8.1. Intel Atomx7-Z8700 1.6GHz processor, 4GHz memory. 8.1" TFT LCD screen with sunlight readable technology. Touchscreen. 8MP camera x 1, USB3 port x 1, Micro USB port x 1, Headphone output, MIC input. Li-Ion battery 7.4VDC, 4200mAh. Dimensions 227 x 151 x 24, weight 880 grams. Operating temperature -21°C - +50°C.

- Tactical Motion Sensors
  - Dimensions, 22 x 25 x 45 mm. Power output, 40 mW. Theoretical autonomy, 416 days. Practical test, 200 alarms / day during 60 days. Transmission range, up to 1 km (line of sight) Battery, 1/2 AA High Drain Lithium (EVE ER14250M) Only use this type of battery. Frequency, 869 MHz (other available on demand).
- Pinhole Microphone Kit
  - Omnidirectional sub-miniature pinhole bullet microphone. Output Impedance 4.4KOhm. Operating frequency 10,000Hz. Sensitivity -33dB+/- 3dB. Signal to noise ratio 30dB. 1.6VDC. Super compact amplifier unit with volume control, mic input 3.5mm jack socket output. Supplied with earbud headphones. USB charging.
- Carry Case
  - Peli-Storm im2370 fitted with custom cut foam. Dimensions: 508 x 373 x 147 Total weight: 5.0 kilos