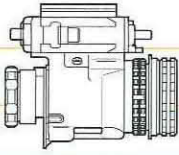
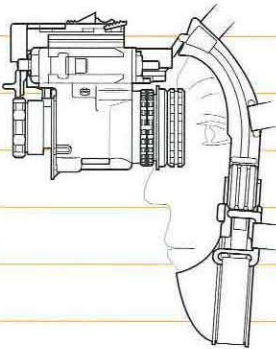


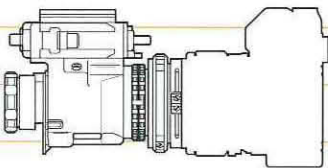
The Ground Owl Modular Night Vision System



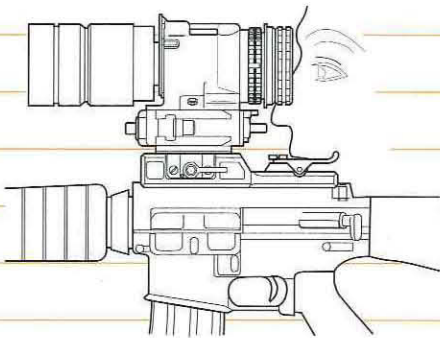
Hand Held Monocular/ Binocular



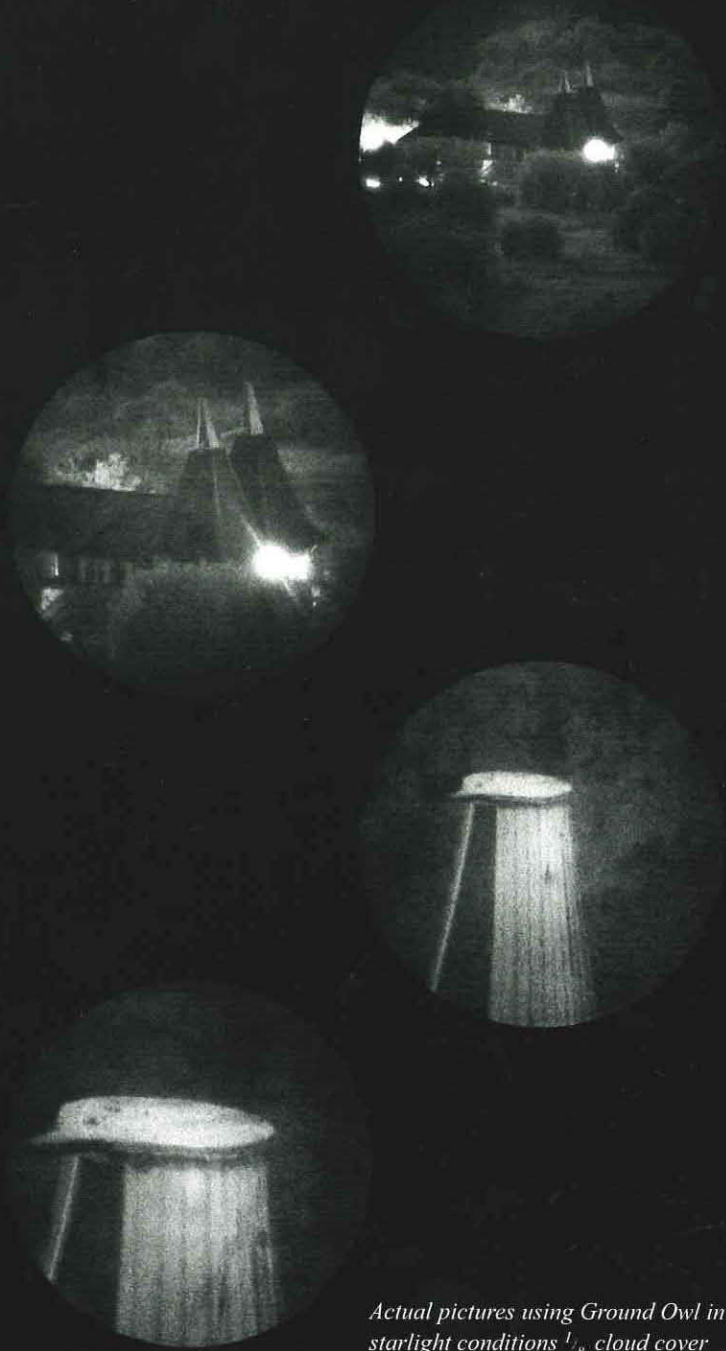
Monocular/ Binocular NVG on Head Mount



Camera Mounted NVG + Magnifier up to >x160



Weapon Mounted x1 or + Magnifier x2/ x3



*Actual pictures using Ground Owl in
starlight conditions $\frac{1}{8}$ cloud cover*

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The Ground Owl Modular Night Vision System

The Ground Owl Modular Night Vision System offers the night vision goggle user enhanced mission flexibility by the adoption of a modular approach. The modularity permits a range of options and applications from the core system including:

- Hand Held Night Viewing
- Monocular or Binocular configuration
- Hands free use with head mounted system
- Range of magnification options
- Camera mounting
- Rifle mounting
- Infra Red Torch for absolute darkness operation

The core of the system is a monocular assembly which, with its self contained power supply, can be used as a lightweight hand held viewing device. The complete system comprises the following components from which can be selected any combination to suit customer requirements:

- Monocular Assembly
- x3 Magnifier
- x2 Adaptor
- Binocular Housing
- Head Mount
- NATO Gunrail Adaptor
- Camera Adaptor
- Nikon Lens Adaptor
- Daylight Filters

The assembly can be combined with another monocular assembly to form a binocular system which can be hand held or head mounted. The head mounting is fully compatible with NBC respirators permitting full capability in all environments. With the use of a NATO gunrail adaptor the monocular assembly can be mounted on a weapon to provide a night battlefield sight capability and, by means of a standard 35mm camera adaptor (52mm thread), the system can also be mounted with a range of lenses available.

The bayonet quick release mechanism allows interchangeability of the x1 objective lens with a x3 magnifying lens. In addition a x2 convertor can be included enabling magnifications of 1, 3 or 6. Provision is also made for the fitting of a Nikon Lens adaptor permitting the user to specify his own lens requirement from the range of commercially available Nikon lenses.

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The inclusion of a selectable infra red torch in the monocular assembly permits the use of the equipment in conditions of absolute darkness where no image intensifier can work. The torch enables short range work in confined spaces and, to prevent inadvertent selection and detection in covert operations, is provided with a safeguard mechanism.

At temperatures of 20°C, a single AA size battery will provide at least 20 hours continuous operation with the IR torch off. For operation in temperatures below -10°C, where standard alkaline batteries have performance, the option of using a lithium cell is provided.

The Ground Owl system has been designed for ease of use in all climates and conditions. The system can be quickly reconfigured to suit different operational scenarios in the field without the use of special tools and is fully ruggedised. Reliable and flexible, Ground Owl is now in service with the UK Armed Forces and is in continual deployment in a range of applications around the world.

Specification (with x1 objective lens fitted) :-

| | |
|--------------------|---|
| Field of View | >40°circular |
| Resolution | >0.8 cycles/mR |
| Eye relief | 25 mm |
| Exit Pupil | 8 mm |
| Focus Range | 30 cm to ∞ |
| Dioptr | +1 to -6 |
| Image Intensifiers | Anvis Standard Generation II or III |
| Battery | Single AA size 1.5V Alkaline, 1.5V or 3.0V Lithium |

