

AMG Systems – Guardian-Lite™ Series

The Guardian-Lite™ Series product range is the first in the world to integrate Ethernet, Low Speed Data and Uncompressed Real-Time Video on Fibre Optic CCTV Transmission Systems. It is available in 4 product ranges:

Guardian-Lite 3700 and 4700 - for singlemode fibre transmission

Guardian-Lite 3600 and 4600 - for multimode fibre transmission

All 4 product ranges eliminate the need for separate IP, voice or data networks and enable significant savings in infrastructure to be achieved. In a wide area application on singlemode fibre, for instance a highway situation, surveillance can be carried out on high quality, uncompressed, real-time video images while the Ethernet carries IP traffic for variable message signs, phones, ANPR cameras and wireless. At the same time, the low speed data channels can carry the signals from road coils and other data systems used on modern highway systems. In a Local Area application on Multimode fibre such as Sports Arenas, Museums, Shopping Centres etc. the Ethernet provides simultaneous viewing of DVR stored images whilst retaining the real-time live surveillance images in the control room. All products are available for dual redundant applications and can be delivered with a dedicated Network Management System which can integrate with SNMP management solutions.

Guardian-Lite™ 3700

Designed for low cost multi-channel video collection and distribution over singlemode fibre - together with associated Ethernet and low speed data and audio signals. Architectures can be configured as a "spur" or a "ring". When configured in a dual-redundant option Guardian-Lite 3700 ensures no loss of signal during a catastrophic fibre failure or node failure. Available for:

- 8 channel drop and insert with data/audio or Ethernet on singlemode fibre
- Up to 64 channels drop and insert using CWDM
- Dual redundant applications



The Guardian-Lite™ 3600

Designed for low cost multi-channel video collection over multimode fibre - together with associated Ethernet and low speed data and audio signals. No compromise on quality or latency. The unique drop and insert system provides for significant cost savings on the infrastructure without any increase in equipment cost. Available for:

- 8 channel drop and insert with data/audio or Ethernet on multimode fibre
- Dual redundant applications



Guardian-Lite™ 4700

Designed for low cost multi-channel point-to-point video transmission over singlemode fibre - together with associated Ethernet and low speed data and audio signals. No compromise on quality or latency. The unique drop and insert system provides for significant cost savings on the infrastructure without any increase in equipment cost. Available for:

- 4 and 8 channel point to point with data/audio or Ethernet on singlemode fibre
- Dual redundant applications



The Guardian-Lite™ 4600

Designed for low cost multi-channel point-to-point video transmission over multimode optical fibre - together with associated Ethernet and low speed data and audio signals. Highly resilient, managed, low cost, transmission system for both compressed and uncompressed video signals. Available for:

- 4 and 8 channel point to point video transmission with data/audio or Ethernet on multimode fibre
- Dual redundant applications



Guardian-Lite Series features:

- **Full bandwidth digital transmission format** – no compromise on video quality
- **No compression** – real-time video – no inherent latency
- **Single fibre operation** – reduced infrastructure requirement
- **High camera counts** – up to 64 channels on singlemode fibre
- **Single, dual and 4 channel insert modules** – both for singlemode and multimode
- **Dual redundant variants** – both for singlemode and multimode fibre
- **Multiple simultaneous video plus data transmission** – enables remote control of camera functions plus bi-directional data
- **Multiple drop off points** – easy routing for multiple control rooms
- **100BaseT Ethernet data transmission option** – data interface boards select 100BaseT or RS232/422/485
- **Unlimited repeat** – for long distance transmission
- **SNMP compliant network management** – for remote fault reporting and diagnosis.

