

### Network Camera Manager



#### Applications

- Network-based high-speed camera recording system
- Camera control system

#### Features

- System management for a high-speed camera system
- 100/1000BASE-T Ethernet interface to the camera system with IEEE 1588 time synchronization support
- Orchestrates data transfer from the cameras to the recorder
- Schedules camera low-rate data output
  - Outputs PCM video data and clock
  - Outputs RS-170A composite video data
- Multiple general purpose I/O for:
  - Illumination synchronization control
  - Multiple IRIG-B time output (derived from IEEE 1588)
  - Multiple camera event trigger output
  - Discrete camera event trigger input
- Provides interface for the TTC Camera Control Panel (CCP-2000-1)
- Compatible with TTC network-based products

#### Description

The nMGR-2000 is the controller in a networked high-speed camera system. It provides the configuration and control between multiple networked high-speed cameras, recorders, switches and the camera control panel.

The nMGR-2000 configures, operates, synchronizes and controls networked high-speed cameras for airborne video recording systems. Using the TTCWare application, the nMGR-2000 provides basic configuration and it arms the high-speed cameras before a mission.

The nMGR-2000 derives its time from network IEEE 1588 time and converts it to IRIG-B DC time to drive cameras that are not compatible with IEEE 1588.

During a mission, the nMGR-2000 communicates operational commands for reconfiguration and synchronization and provides a single channel of RS-170A (NTSC or PAL) video, RS-422 data and clock and PCM output from a selected camera to view the camera field-of-view.

The nMGR-2000 can also interface, as an option, with the TTC CCP-2000 camera control panel using a control communications port for status updates, user reconfiguration and system management.

The nMGR-2000 communications capabilities include a 100/1000BASE-T Ethernet interface to the camera system with IEEE 1588 time synchronization support for video data and clocking, RS-170 composite video data, illumination synchronization control, multiple camera events trigger output and discrete camera event trigger input.

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#### nMGR-2000 Datasheet

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Management  
 System  
 AS9100C  
 ISO 9001:2008