

## GLE/RMVC-200V2

## Ruggedized Miniature Video Camera

**Main Features**

- Hi-G construction, one piece camera, no external control box
- 1/3-type High Sensitivity CCD sensor
- Colour CVBS (*PAL or NTSC*) and Y/C output
- 2000 Lux sensitivity / 1.5 Lux minimum illumination
- Wide dynamic range and excellent SNR
- Noise Reduction Function
- Automatic and Manual White Balance
- External Synchronization (*HD/VD, VS and CSync*)
- High speed shutter control
- Electronic image rotation and mirroring
- Quick access to internal settings
- Manual setup or via RS232 interface
- Setup software GUI of all camera functions
- Extended operating temperature range
- Wide DC voltage supply range
- Anti-vibrating Lens locking system
- Interchangeable miniature or standard 'C' Mount lenses

**Some applications**

- Flight Testing Instrumentation
- Stores / Payloads separation
- Head-Up Display / Cockpit Video Recording
- Video monitoring / surveillance in Harsh Environments
- Vehicle testing / Motor sport

**Overview**

GLE/RMVC-200v2 is a miniature and rugged color video camera designed for on-board testing and instrumentation applications; it is directly derived from RMVC-200. This second generation model offers same ruggedness, better performances and functionalities, lower power consumption in a smaller package.

It is based on a well proven, high quality 1/3 inch Charge Coupled Device (CCD), installed in an EMI shielded, harsh-environment-tight aluminum precisely machined enclosure.

This camera provides 460/470 television lines of resolution and its output can be set in composite or Y/C video signal; the integrated electronic shutter/CCD IRIS can operate up to 1/100000 s.

Its use is very simple, no external control box is required, the user can remotely control via standard

RS232C various functions such as Shutter Speed, Red/Blue level, Pedestal, Image Rotation and Mirroring, AGC, CCD IRIS, etc. Thanks to the electronic image rotation/mirroring function is possible to achieve alternative image orientation (*i.e. upside-down installation*) without the need to rotate the internal CCD.

Particular care has been dedicated to the mechanical design, the result is a very small, lightweight and at the same time very robust unit; the "lens locking system" supports different miniature lenses to maintain their optimal focus setting also under heavy vibrations. An optional adapter allows the use of standard 'C' Mount lenses.

A small side door protects the manual settings and provides quick access to them without disassembly the camera enclosure.

A series of precision mounting holes, strengthened by stainless steel Heli-Coil<sup>®</sup> threaded inserts, makes simple the installation, providing flexibility to satisfy various mounting needs:

- thanks to its slim body and low mass it can be directly and safely installed on any surface;

- the optional dual-axis mounting tray provides the possibility to adjust the pointing angles.

This camera, designed having MIL-STD specification in mind, ensures safe operation and correct performances, under severe mechanical conditions, in an extended temperature range and in a wide DC voltage supply range. The exceptional rugged construction, miniature size, lightweight and high image quality make this camera suited for the most demanding applications in space-restricted and severe environment condition

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