# MEMRECAM Q Series
## High Speed Camera System

## The world's smallest, self-contained, high performance, Hi-G camera.

### MEMRECAM Q SERIES FEATURES

**CMOS Sensor:** All Active Pixels

**Bit Depth:** 12/10/8-bit (customer selectable)

**Electronic Shutter**

**Compact Camera Design:** 62(H) X 62(W) X 65(D)mm, Approx. 470g

**Ruggedized Camera System:** MEMRECAM Q Series cameras are designed to withstand 150G shock for 10ms. The camera is ideally suited for onboard automotive testing applications.

**C-Mount Lens is Standard:** Sensor uses a 2/3-inch optical format.

**Built-In Hi-G Trigger Circuit**

**Built-In Memory Backup**

**High Light Sensitivity**

**Gig-E Communications:** Supports simultaneous download of multiple MEMRECAM cameras.

**Multi-Camera Operation with Precise Synchronization**

**Power Input:** 20-32 VDC

**Power Consumption:** 20W

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nac's MEMRECAM Q Series is designed to support demanding multi-camera testing environments.

- The MEMRECAM Q Series boasts a 1.3 Mega Pixel sensor and is capable of recording brilliant color images at full resolution at up to 2,000 fps.

- The MEMRECAM Q's compact, rugged design, and its excellent light sensitivity, make it ideal for the confined spaces routinely encountered in automotive crash testing environments, production facilities, microscope applications and so much more!

- The MEMRECAM Q Series comes standard with a built-in memory backup, so images are safe even if power is interrupted.

- The MEMRECAM Q's 2/3-inch image format supports a variety of standard C-Mount lenses, as well as custom Hi-G lenses.

- The MEMRECAM Q is fully integratable with existing GX and HX cameras.

When it comes to reliable, high-quality, high-speed camera systems, make the safe choice with nac and you'll *see the visible difference!*

# MEMRECAM **Q Series**
High Speed Camera System

| | MEMRECAM Q1m | MEMRECAM Q1v |
|---|---|---|
| Resolution | 1,280 x 1,024 | 640 x 480 |
| Frame Rate | 2,000 fps | 8,000 fps |
| Sensitivity (color) | ISO 1,000 IQ-mode<br>ISO 3,200 S-mode | ISO 8,000 IQ-mode<br>ISO 25,000 S-mode |
| Sensitivity (mono) | ISO 6,400 IQ-mode<br>ISO 20,000 S-mode | ISO 50,000 IQ-mode<br>ISO 160,000 S-mode |
| Bit Density | 8/10/12 bits | |
| Recording Time | SXGA 1sec (4GB) / 2sec (8GB) @ 2,000 fps, 12 bit<br><br>VGA   4sec (4GB) / 9sec (8GB) @ 2,000 fps, 12 bit | |
| Memory Backup Time | Approximately 1 hour (8GB model) | |
| Dimensions & Weight | 62 x 62 x 65mm, Approx. 470g | |
| Power Consumption | Approximately 20W | |
| Camera Connector | LEMO 2B | |
| I/O Signal | Trigger/SYNC IN & OUT / POWER-CTL (5VTTL isolation IF) | |
| Communication | G-bit Ethernet (GigEvision protocol) | |
| Power Input | 20-32VDC | |
| Lens Mount | C mount – 2/3" Lenses | |
| Shock | 150G / 10 msec | |
| LED Indicators | Cam. Mode/Cam. STS / Ethernet / Battery | |
| Auto-Trigger Function | Triggered by shock using built-in G-sensor capable of measuring up to 200G, 3-axis | |
| Emergency Data Storage | Data storage to external media via emergency data port | |
| Display | PC (no view finder) | |

Please Note: Specifications described above are preliminary and subject to change.

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**nac Image Technology**
**MEMRECAM Q Series Camera Systems also Feature:**

- Adjustable Frame Rates
- Automatic Temperature Calibration
- Ultra-Fast Gig-E Interface with DataLock
- Data Security System - Download to SD
- Remote & Local Control
- Memory Backup
- Memory Segmentation
- Multiple Trigger Modes, Including Built-in Hi-G Trigger Curcuit

- Multi Camera Operation with Precise Synchronization
- External Sync Recording
- IRIG-B Capture & Sync with Phase Shift
- Small, Lightweight, Rugged Design - Approx. 470g 62 W x 62 H x 65 D (mm)
- Low Power Consumption
- Hi-G Rated to 150G Shock

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