

MEMRECAM Q5 Series

High Speed Camera System

the most experienced
name in high speed
cameras

The world's smallest, multi-head, high performance, Hi-G camera system.

MEMRECAM Q5 Series Features

Compact DRP Design:

195W x 40H x 125D, 1.8kg

Multiple Micro Camera Options:

μ-Cam, C-Cam, P2-Cam and S2-Cam

Ruggedized System Design

Built-In Hi-G Trigger Circuit

Built-In Memory Backup

Gig-E Communications

Multi-Camera Operation with Precise Synchronization

Power Input: 20-32VDC

Power Consumption: 50W (4X cameras plus DRP)



nac's MEMRECAM Q5 Series is designed to support demanding multi-camera testing environments.

- **Small size and weight** (195W x 40H x 125D, 1.8kg) – The Q5 DRP is less than 20% of the physical size, and less than 25% of the weight, as compared to its predecessor systems.



- **Multiple Ultra Small Camera Head Choices** – The MEMRECAM Q5 supports the existing lineup of nac ultra small camera heads. The Q5 camera heads are matched to user requirements, being optimized for high light sensitivity, small size, or balanced to support both needs.
- **Compatible with Existing MEMRECAM Systems** – The MEMRECAM Q5 supports the nac micro camera heads installed with the Q5's predecessor system, the MEMRECAM GX5. Multiple Q5 DRP's can be connected and synchronized using the nac Q-Hub Hi-G interconnection system. The Q5 is also fully

compatible with nac's Q1, GX, HX and RX camera systems.

- **Enhanced Hi-G performance** – The Q5 DRP is rated for shock for 200G, 7ms, and 150G, 11ms.
- **Faster Image Processing** – The MEMRECAM Q5 system uses an extremely fast processing system, saving the user time and making for a more efficient workflow. Live images can be viewed over the system's Ethernet connection at up to 30+ frames/second. The DRP's 8GB memory can be downloaded to a control PC in about 2 minutes.
- **Expanded Image Protection** – As with all nac systems, the MEMRECAM Q5 employs a memory backup system which protects images in the event of unanticipated loss of power. Like the MEMRECAM Q1 series, the Q5 provides extra insurance for image capture and image protection. nac's Hi-G trigger allows the camera to record images even if the external trigger signal is lost during a test. In addition, nac's proprietary RESQ interconnect technology provides a secondary path for recovering images in an emergency situation.

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Visit our website at
www.nacinc.com

Providing quality and
reliability since 1958

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

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MEMRECAM Q5 DRP Specifications	
Dimensions	W195 x H40 x D125 mm
Weight	Approx. 1.8kg
Camera supported	S2/P2/C/ μ -Cam
Camera port	Up to 4ch
Bit depth	8/10 bit
Memory	8GB
Rec time	6.9 sec (4ch, 640x480, 8bit, 1000fps)
Interface	1000 Base-T/RESQ (for emergency data storage)
Memory Back-up	Approx. 60 min
Hi-G Capability	200G/7msec, 150G/11msec (all axis)
Consumption	Approx. 50W (4x μ -Cam, without ext. cable)



Camera Head Specifications			
	μ -cam	C-cam	P2-cam & S2-cam
ISO Sensitivity	Color ISO 2,000 Mono ISO 8,000	Color ISO 8,000 Mono ISO 50,000	Color ISO 1,000 Mono ISO 4,000
Lens Mount	Special M10.5	C-Mount	NF Mount
Camera Cable			
- Camera to Relay	2m	--	.9m (for S2-cam)
- PigTail	3m, 4m, 5m	0.6m	0.6m
Extension Cable	4m	4m, 6m, 8m	4m, 6m, 8m
Impact Performance	Shock 150G, 11ms	Shock 150G, 11ms	Shock 150G, 11ms
Dimensions	Straight: 16 x 16 x 27mm Side: 15 x 16 x 16 mm	35 x 35 x 58 mm	P2-cam: 25 x 25 x 85 mm S2-cam: 25 x 25 x 25 mm
Full Resolution	640 x 456	640 x 480	640 x 480
Speed @ Full Res	500fps	1,000fps	1,000fps

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

nac Image Technology

MEMRECAM Q5 Series Camera Systems also Feature:

- Adjustable Frame Rates
- Automatic Temperature Calibration
- Ultra-Fast Gig-E Interface with DataLock
- RESQ Data Security System – Download to PC
- Remote & Local Control
- Memory Backup
- Memory Segmentation
- Multiple Trigger Modes, Including Built-In HiG Trigger Circuit
- Multi Camera Operation with Precise Synchronization
- External Sync Recording
- IRIG-B Capture & Sync with Phase Shift
- Multiple ultra small camera options, straight and angled versions
- Small, Lightweight, Rugged DRP Design – 1.8kg, 195W x 40H X 125D (mm)
- Low Power Consumption
- Hi-G Rated to 200G Shock, 7ms and 150G Shock, 11ms

Visit our website at
www.nacinc.com

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