



**NAC Image Technology, the most experienced name in high-speed video, presents the HotShot cl line of Camera-Link based cameras—putting high performance, high resolution, high speed video in the hands of system integrators and value added resellers.**

## **NAC's HotShot cl Digital High-Speed Video Camera Heads**



**NAC's HotShot cl line of high-speed cameras are small, easy-to-use and cost-effective cameras that are compatible with the industry's leading frame grabbers.**

The cameras provide maximum versatility to the System Integrator and Value Added Reseller. Using an advanced CMOS Sensor that provides lower

power consumption, increased speeds with lower smear and blooming than CCD sensors, the HotShot cl is available in both color and monochrome versions. A global electronic shutter allows the user to vary the exposure time, independent of the frame rate in order to eliminate motion blur or to permit low-light recording. **Available in two models, the HotShot 512 cl (for higher speed, higher sensitivity applications) and the HotShot 1280 cl (for mega pixel resolutions), these component cameras can provide up to 100,000 FPS.**

With its optimal data rate and full Camera Link™ interface, the HotShot cl brings high-end functionality to lower-end applications. The cameras can be triggered via an external sync signal or run in an internally controlled “free-run” mode. The HotShot cl Cameras operate with a single voltage power supply and use standard C-Mount or Nikon lenses (with adapter). The color cameras come equipped with a built-in IR cut filter for improved color clarity.

**The HotShot cl is designed to work well for a multitude of applications, including:**

- **Manufacturing**
- **Motion Inspection**
- **Human Motion Analysis**
- **Digital Archiving**
- **3-D Holographic Data Storage**
- **Custom Extended Record Time Applications**



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## HotShot 512 cl

## HotShot 1280 cl

<b>Sensor Technology</b>	CMOS Active pixel	CMOS Active pixel
<b>Scanning System</b>	Progressive	Progressive
<b>Resolution</b>	512 x 512	1280 x 1024
<b>Frame Rate @ Max Resolution</b>	2300 FPS	500 FPS
<b>Imaging Area</b>	8.192mm x 8.192mm	15.36mm x 12.88mm
<b>Lens Mount</b>	"C" or Nikon w/ Adaptor	"C" or Nikon w/ Adaptor
<b>Lens Format / Diagonal</b>	2/3" / 11.6mm	1.2" / 19.27mm
<b>Pixel Size</b>	16 micron Sqr	12 micron Sqr
<b>Spectral Sensitivity</b>	400 nm - 1000nm	400 nm - 1000nm
<b>Color Format</b>	Monochrome / Bayer RGB	Monochrome / Bayer RGB
<b>Sensitivity</b>	1650 ISO/ASA(mono)	400 ISO/ASA(mono)
<b>Dynamic range</b>	57dB	59dB
<b>ADC Bit Depth</b>	10 Bit	10 Bit
<b>Shutter Type</b>	Freeze-frame, Global	Freeze-frame, Global
<b>Shutter setting</b>	2 uS - 33mS	2 uS - 33mS
<b>Pixel Clock</b>	80 Mhz	68.675 Mhz
<b>Camera taps</b>	8	10
<b>Grayscale resolution</b>	8 bits	8 bits
<b>Color Resolution</b>	24 bits	24 bits
<b>Interface</b>	CameraLink "Full" configuration	CameraLink "Full+" configuration
<b>Communication interface</b>	CL Serial (38,400 bps)	CL Serial (38,400 bps)
<b>Trigger Modes</b>	Free running, External	Free running, External
<b>Features</b>	Custom AOI	Custom AOI
<b>Max Frame rate</b>	100,000 FPS (reduced V resolution)	20,000 FPS (reduced V resolution)
<b>Operation Temperature</b>	0 - 40 C	0 - 40 C
<b>Operating Voltage</b>	12VDC	12VDC
<b>Power consumption</b>	11 W	9.5 W
<b>Power receptacle on camera</b>	Lemo - EGG.0B.302.CLL	Lemo - EGG.0B.302.CLL
<b>Power Plug from Pwr supply</b>	Lemo - FGG.0B.302.CLAD52Z	Lemo - FGG.0B.302.CLAD52Z
<b>Dimensions</b>	82mm x 82mm x 77mm	82mm x 82mm x 77mm
<b>Weight</b>	680 g / 1.5 Lbs	680 g / 1.5 Lbs
<b>Special</b>	IR filter over color sensors Tripod mount included	IR filter over color sensors Tripod mount included



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