NAC's *HotShot 1280 INT:* A Tethered Head, Digital High-Speed Video System

NAC Image Technology, the most experienced name in high-speed video, presents the HotShot 1280 INT: A high performance, high resolution, high-speed video affordably priced for most research, test and production users.

NAC's HotShot **1280** INT is designed to be an easy-to-use, high-speed video solution for research, test and production customers. The HotShot 1280 INT camera and recording system provides the user with a versatile and reliable high-speed video system.

The HotShot **1280** INT records brilliant color images or crisp monochrome images at resolutions up to 1280 X 1024 pixels. Using its advanced CMOS image sensor, the HotShot **1280** INT is capable of recording speeds in excess of 20,000 fps at reduced resolutions. The camera system's global electronic shutter allows the user to vary the exposure time, independent of the frame rate to be able to eliminate motion blur or to permit low-light recording. The HotShot **1280** INT image recording can be started or stopped remotely via a handheld switch, a direct signal from the subject or an external trigger. Images can be quickly reviewed and downloaded to a PC for more detailed analysis or image archiving and storage.

The **1280** INT features a compact remote camera head that allows the system to operate in difficult-to-reach, confined spaces. The standard system "turnkey" solution consisting of: a camera head & PCI Card, 5m Camera Link / Power Cable Assembly and Control Software. We then integrate these items into a "seamless" package consisting of an Integrated Power / Trigger Assembly, Instrumentation Control Console and USB Micro Keyboard for a complete motion analysis system.

Choose NAC to help address your high-speed imaging needs and you'll see *The Visible Difference!*

HotShot System Features

- **High Resolution, High-Speed Sensor**: The HotShot cameras use state-of-the-art CMOS sensors available in monochrome or color.
- **Electronic Shutter**: Full Frame, OPEN to 1/200,000 seconds and customer programmable
- **Bit Density**: 8 Bits
- **Standard Lens Mount**: C-Mount, F-Mount Mount Optional
- **Live Image**: A live image is available from the camera Control Console or from a PC.
- **Standalone Operation**: The HotShot INT cameras do not require a PC for setup and operation. The HotShot pci cameras are computer peripherals.
- **Trigger Mode**: The HotShot cameras use a START, CENTER, END or CUSTOM trigger. In the CUSTOM mode, the trigger point can be programmed and positioned by the customer (i.e. –100% to +100%).
- **Synchronous Data Recording**: Scene number, date and time of trigger, shutter speed, video process data, comments.
- **Recording Video Monitor**: In VIEW mode, live images captured by the camera but not saved in memory are reviewed. Images are displayed at a rate of 30 pps. In ARM/REC mode, the images captured by the camera and stored in memory can be reviewed. Image playback speed is adjustable.
- **Image Format**: The HotShot provides a variety of image formats, including full horizontal, 1:1, 4:3, 16:9 and customer programmable.
- **Image Playback**: Recorded images can be played back and viewed, immediately after image capture, on the Control Console monitor or on the monitor of a control PC. The video playback unit allows for "step" fashion image review, allows the user to set the start and end points for image review, allows the user to "jump" to the trigger point, the START point or the END point of the image area. Image playback can be in a single segment or in a loop.
- **Memory Configuration**: 4 GB total memory capacity includes system and camera.
- **Image Download**: The recorded images, having been captured to DRAM, can be downloaded directly to a non-volatile storage device, such as a PC hard drive, DVD, an external USB hard drive or other PC peripherals such as a Compact Flash.
- **Recorded File Format**: Images can be saved to a variety of computer recognizable file formats (AVI, TIF, JPG, BMP, etc.)
- **Multi-Camera Control**: Up to four HotShot cameras can be connected and fully synchronized using the HotShot camera head's sync-in and sync-out connector system. Cameras can also be linked using commercial off-the-shelf (COTS) network hubs.
- **Control Software**: Control software is provided with each camera system. Alternatively, the customer can develop his own control software. NAC will provide the customer with a Software Development Kit (based upon an ActiveX component). The SDK will support C++, Visual C++ and Visual Basic.
- **IRIG-B**: HotShot cameras support real-time IRIG-B time insertion and can be synchronized to IRIG-B.

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