

ADVANCED 3D DIGITAL IMAGING TECHNOLOGY

The StarCam™’s underlying technology – born out of optical range-finding – is the same as the human optic system, using stereo simultaneous images of any subject’s contrast, brightness and edge cues to determine depth. This technology, combined with the StarCam™’s approach of using projected dots (rather than conventional lines), allows the StarCam™ FW-3R to not only rapidly capture and process a high quality 3D image of the subject, but also dramatically reduces errors in the captured image.

StarCam™ systems are based on passive, non-laser technology and have a robust and mobile exterior casing, making them suitable for applications in a broad range of industries. Casing made from 1/4 inch machined aluminum, makes the StarCam™ sturdy enough to withstand virtually all industrial applications.



LOW COST SOLUTION ENABLES NEW USERS TO ENTER WORLD OF 3D

Priced at a fraction of most laser and CMM machines, the FW-3R is accessible to virtually any user. Even at a low price point, it is able to capture large amounts of data at a more rapid pace and with greater ease than most competing systems.

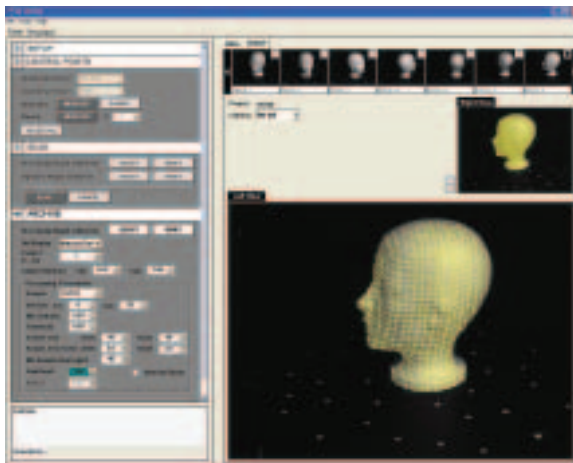
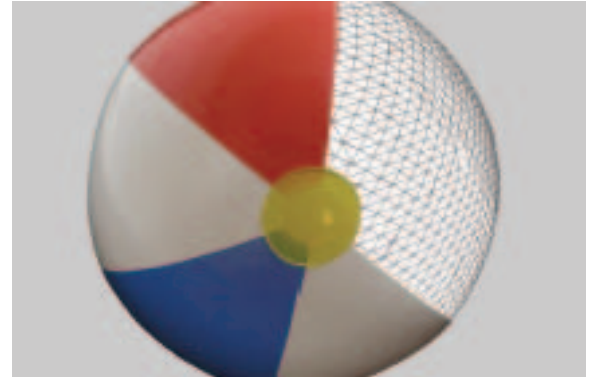
The StarCam™ FW-3R is an entry-level 3D digital imaging system that provides rapid capture and processing of 3D digital images. With a broad field of view, it is optimized for monochromatic 3D image capture at short distances in a studio environment.

KEY BENEFITS:

- **SPEED** - Rapid capture (up to 30 frames per second) and processing of monochromatic 3D digital images.
- **DETAIL** - Uses projected dots (not lines) for fast image capture and processing, and lower measurement error.
- **EFFICIENCY** - Standard interface: FireWire® for rapid processing (400mbps) and ease of integration into virtually all 3D digital imaging solutions.
- **PORTABILITY** - Robust and mobile exterior casing, packs to fit airline luggage constraints.
- **EASY TO USE** - Complete installation, user and maintenance documentation.
- **SAFETY** - Passive, non-laser technology safe for medical, health care and military applications.
- **DEDICATED SOFTWARE** - Easy to use, flexible Windows® software available for:
 - Control of StarCam™ FW-3R camera functionality
 - Spatial measurement operations
 - Data and image processing (including postcapture processing)
- **PROCESSING STRENGTH** - Provides archiving of data, for post-capture processing.

PORTABILITY

The StarCam™ FW-3R's light weight and sturdy casing makes it a portable and versatile solution for projects outside a studio or manufacturing facility. The system can be quickly dismantled and stowed for easy storage when not in use. Conforming to airline luggage constraints, the StarCam™, laptop, tripods and required components pack into a single wheeled case.



MINIMUM SYSTEM REQUIREMENTS

Operating System

- Microsoft® Windows® 2000 or 2000 Pro, Windows® XP or XP Pro

Computer Hardware

- Intel® Pentium® 4 processor or equivalent
- 512 MB RAM system memory
- 80 Gigabyte hard drive
- PCI 1394 FireWire® card or alternative specified/supplied by VX Technologies
- Matrox G550 or alternative video card specified/supplied by VX Technologies

TECHNICAL SPECIFICATIONS STARCAM™ FW-3R:

Sensors: 2 monochrome 1/2" CCD sensors

Resolution:

- 768 (horizontal) pixels x 494 (vertical) pixels
- 10-bit digitization

Focal length supported: 12mm, 16mm, 34.9mm

Field of view (at 1m): 0.5 x 0.4m, 0.4 x 0.3m, 0.14 x 0.18m

Focus distance: 0.5 - 4m

Available stereo baselengths: 69mm, 122mm, 175mm

Camera control: gain control

Automatic exposure control

Interfaces:

- 1 IEEE 1394a FireWire® port at 400MBps

Integration features:

- Isochronous broadcast of images
- 60 db SNR (signal to noise ratio)

Dimensions

- Width 29.8 cm (11.74 inches)
- Height 14.6 cm (5.75 inches)
- Depth 23.5 cm (9.26 inches)
- Weight 5.4 kg (11.7 lbs.)