

## The world's first disk-based high-speed Digital Video Recorder



Photron proudly introduces the Digital Video Recorder (DVR), the world's first purpose-built, high resolution and high-speed CMOS digital imaging system. The DVR offers 30 minutes of full-resolution recording at 500 frames per second (fps), and, by reducing resolution, recordings at 1,000 and 2,000 fps can be made.

The DVR writes images directly to fast 120-gigabyte compact and removable IDE hard drives for easy storage and recovery. This significantly reduces down-time between recording sessions by eliminating the time normally required to transfer images from RAM to hard drive.

For ease of operation, the DVR is equipped with a handheld control unit, which is secured to the front of the panel for easy access when not needed for remote operation.

The camera's sensor is a CMOS 640 x 480-pixel progressive scan (Bayer system color, single sensor) with global electronic shutter. Saved image formats include JPEG, AVI, TIFF, BMP and RAW (compressed or uncompressed).

Once again, Photron leads the way in technological advances, innovation and quality performance in high-speed video. Combining portability, excellent resolution and the ability to write directly to your hard drive, Photron's DVR is the first choice for an affordable high-speed video system.

### F E A T U R E S

- Thirty minutes of full resolution are obtained by recording at 500 frames per second (fps). Reducing the resolution enables recordings at 1,000 and 2,000 fps. Greater record times available at lower speeds, down to 125 fps
- Images are saved directly to fast 120-gigabyte, removable and compact IDE hard drives, eliminating the traditional down-time between recordings
- CMOS technology provides excellent anti-blooming while providing crisp images at 640 x 480-pixel resolution. User-selectable global electronic shuttering is rated to 7.8µs
- Removable hard drives for maximum data security
- Available options: IRIG/GPS timing interface, 10-meter camera cable



# PHOTRON™

Resolution 8-bit monochrome (256 steps), 24-bit color

Frame Rate (fps)	Resolution (pixels)		Available Shutter Range	Maximum Record Time
	H	V		
125	640	480	8 ms to 7.8 $\mu$ s	120 min
250	640	480	4 ms to 7.8 $\mu$ s	60 min
500	640	480	2 ms to 7.8 $\mu$ s	30 min
1,000	640	240	1 ms to 7.8 $\mu$ s	30 min
2,000	640	112	0.5 ms to 7.8 $\mu$ s	30 min

- Sensor CMOS 640 x 480-pixel progressive scan (Bayer system color, single sensor) with global electronic shutter operating to 7.8 $\mu$ s
- Saved Image Formats JPEG, AVI, TIFF, BMP, RAW (compressed or uncompressed)
- Recording Media 120 gigabyte removable compact IDE hard drives
- Recording Time 30 minutes at 500, 1,000 and 2,000 fps
- Triggering TTL, Contact Phase Lock (5V p-p, positive or negative going)
- Lens Mount C-mount standard
- Camera Cable 16' (5m) standard. 32' (10m) optional
- Data Display Frame Rate, Frame Counter, Recording Mode, IRIG Time (optional)
- Compression JPEG, selectable 10:1, 15:1 and 20:1 compression ratios. Compression does not effect the recording duration
- Outputs RS170 (NTSC or PAL) – Live during recording Phase Lock (5V p-p, positive or negative going)
- Download CD-RW for image archive (DVR-RW optional) 100baseT Ethernet
- Camera Control Handheld control unit or remote PC via Ethernet
- Processor Operating under Windows 2000  
1GHz dedicated processor  
256 MB of RAM  
True color Bright-Light display
- Power Requirements 110 or 230 VAC switchable. 3.5A max
- Dimensions and Weight Camera: 3.4" (86 mm) H x 3.4" (86 mm) W x 1.8" (46 mm) D Weight: 1.2 lb (0.55 kg)  
Processor: 15" (381 mm) H x 16.9" (430 mm) W x 24.5" (622 mm) D Weight: 57 lb (26 kg)

Specifications subject to change without notice.

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