

# Mega Speed MS35K PRO DVR NB

The MS35K PRO camera paired with our super high performance 17" laptop is your solution for trouble-shooting and long term recording of your line jams and production runs.

Watch and record real time high speed video of up to 1000 fps with the DVR notebook and the pre-installed Mega Speed DVR Software



MS35K PRO V1 with built in high power LED work lights

## PRODUCT SPECIFICATIONS

- Sensor type: Mega Speed B/W or Color CMOS Sensor.
- Maximum resolution: 1280 x 1020.
- Pixel size: 7um x 7um.
- Shutter speed: Global Electronic Shutter 2us to 30 ms in 2 us steps.
- Spectral response: 400nm to 1000nm.
- A-D converter: 8 bits.
- Trigger: TTL 3 to 48 VDC via BNC connector centre pin positive active high.
- Trigger modes: Start by TTL, stop by TTL.
- Strobe out: TTL 3 VDC via BNC connector centre pin positive active high.
- Camera size: 4" x 4"x 3.4"
- Camera weight: 1000 grams.
- Camera cable: 5 metres standard is included, 10 to 100 metres available.
- PCI card: PC must have a Gige PCI card or robust Gig e connection
- Multiple cameras: Several cameras can be networked with a Gbit Ethernet hub.
- Video output: High Speed data to host PC.
- Ethernet: Gigabit Ethernet connectivity.
- Camera speeds: User defined in Software in one FPS increments.
- Optical interface: Standard "C" Mount or "F" Mount adapters are available.
- Back focus: Approximately 17.5mm from sensor surface to outer face of thread barrel.
- Power requirements: 12 V DC Centre pin positive. 120 / 240 VAC Wall adapter is included.
- Gain adjustments: User selectable from software.
- Image sizes: User selectable from factory defaults or by software selection.
- Capture modes: Automatic or manual modes. Start/stop by trigger or hot keys.
- File saving: User can save in AVI format, JPEG or BMP format to PC RAM or hard drive.
- Image enhancement: Bitmaps can be sharpened to bring out better details in captured files.
- Data Transfer: Continuous real time data transfer to your PC.
- Data back up: PC hard drive only. Camera contains no internal memory.
- Playback Rate: User selectable from 1 to 300 fps for fast video review.
- Software: Full Camera Control software and AVI editing functions.
- Shock rating: 100G.

# Mega Speed<sup>®</sup> DVR Software

FEATURES

## Intuitive And Easy to Understand Menu Layout

The screenshot shows the Mega Speed DVR Software interface with several key components highlighted by callouts:

- Main Menu:** Located at the top left, containing options like File, Capture, DVR Settings, Camera Settings, Color Settings, View, and Help.
- Main Toolbar:** A horizontal bar below the menu with icons for Start, Stop, Play, Pause, and other controls, along with resolution and frame rate settings.
- DVR Status:** A central status area showing 'EPU Usage: 1%' and 'DVR overload: 0 / 6144'. It also displays 'Capturing to DVR: Compressed', 'Frames Captured: 218', 'Time Elapsed: 3 seconds', and 'Write Speed: 1.7 MB/s'. Drive space information is also shown: 'Drive space free: 3,720.5 GB, Approximately 26 days, 9:20:02'.
- File Manager Pane:** On the right side, it shows 'DVR Storage: E:\DVR\_FILES\' and a table of captured files.
- Camera Control Pane:** On the left side, it provides settings for two cameras, including FPS (60) and Exposure (125).
- Preview Window:** The central area showing a live video feed of a tray of cans, with a playback timeline at the bottom indicating 'Frame 222'.

## File Stitching & Rotation Options For Multiple Cameras

The 'Stitch Options' dialog box allows users to configure camera rotation and stitching:

- Camera Rotation:** Radio buttons for Rotate 0°, 90°, 180°, and 270°.
- Swap Camera positions:** A checkbox to swap the positions of Camera 1 and Camera 2.
- Change Stitch Type:** Radio buttons for Horizontal and Vertical stitching.
- Visuals:** A diagram showing two camera positions (Cam1 and Cam2) with red arrows indicating their relative orientations.

## Flexible Recording Options

The 'File Length Options' dialog box provides flexible recording settings:

- When capturing, automatically start new files:**
  - On Multiples of: 10 Minutes
  - After: 1 Hour Of Recording
- ie. If Capture is started at:** A list of time slots: 12:13:05, 13:13:00, 14:13:00, 15:13:00, 16:13:00, 17:13:00.
- Buttons:** OK and Cancel.

## Dynamic Region Of Interest Adjustments For Easy Setup

The 'Region Of Interest' dialog box allows for dynamic adjustments:

- Camera Select:** A dropdown menu showing 'Camera 1' and 'Camera 2'.
- Lock To Center:** A checkbox to lock the region to the center of the frame.
- Center:** A button to center the region of interest.
- Visuals:** A large gray rectangle representing the camera's field of view, with a smaller white rectangle inside representing the region of interest.
- Buttons:** Close.