

# Mega Speed MS35K V2

## Maximum Camera Streaming Speeds And Image Sizes

1920 x 1080	=	140 fps
1280 x 1080	=	222 fps
1280 x 720	=	316 fps
960 x 720	=	421 fps
768 x 600	=	632 fps
640 x 480	=	950 fps
320 x 240	=	3750 fps



MS35K V2 With Gigabit Ethernet

## PRODUCT SPECIFICATIONS

<input type="checkbox"/> Sensor type:	Mega Speed B/W or Color CMOS Sensor.
<input type="checkbox"/> Maximum resolution:	1920 x 1080.
<input type="checkbox"/> Pixel size:	10um x 10um.
<input type="checkbox"/> Shutter speed:	Global Electronic Shutter 2us to 30 ms in 2 us steps.
<input type="checkbox"/> Spectral response:	400nm to 1000nm.
<input type="checkbox"/> A-D converter:	8 bits.
<input type="checkbox"/> Trigger:	TTL 3 to 24 VDC via BNC connector centre pin positive active high.
<input type="checkbox"/> Trigger modes:	Start by TTL, stop by TTL.
<input type="checkbox"/> Sync out:	TTL 3 VDC via BNC connector centre pin positive active high.
<input type="checkbox"/> Camera size:	4" x 4"x 3.4"
<input type="checkbox"/> Camera weight:	1000 grams.
<input type="checkbox"/> Camera cable:	1 to 100 metres.
<input type="checkbox"/> PCI card:	PC must have a 5 Gbit Gige PCI card
<input type="checkbox"/> Multiple cameras	Several cameras can be networked with a Gbit Ethernet hub.
<input type="checkbox"/> Video output:	High Speed data to host PC.
<input type="checkbox"/> Ethernet:	Gigabit Ethernet connectivity.
<input type="checkbox"/> Camera speeds:	User defined in Software in one FPS increments.
<input type="checkbox"/> Optical interface:	Standard "C" Mount or "F" Mount adapters are available.
<input type="checkbox"/> Back focus:	Approximately 17.5mm from sensor surface to outer face of thread barrel.
<input type="checkbox"/> Power requirements:	12 V DC Centre pin positive. 25 W. 120 / 240 VAC Wall adapter is included.
<input type="checkbox"/> Gain adjustments:	User selectable from software.
<input type="checkbox"/> Image sizes:	User selectable from factory defaults or by software selection.
<input type="checkbox"/> Capture modes:	Automatic or manual modes. Start/stop by trigger or hot keys.
<input type="checkbox"/> File saving:	User can save in AVI format, JPEG or BMP format to PC RAM or hard drive.
<input type="checkbox"/> Image enhancement:	Bitmaps can be sharpened to bring out better details in captured files.
<input type="checkbox"/> Data Transfer:	Continuous real time data transfer to your PC.
<input type="checkbox"/> Data back up:	PC hard drive only. Camera contains no internal memory.
<input type="checkbox"/> Playback Rate:	User selectable from 1 to 300 fps for fast video review.
<input type="checkbox"/> Software:	Full Camera Control software and AVI editing functions.
<input type="checkbox"/> Operating Temperature:	-45° to +45° C
<input type="checkbox"/> 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 panel displaying system metrics such as EPU Usage (1%), DVR overload (0 / 6144), and recording status (Capturing to DVR: Compressed).
- File Manager Pane:** A panel on the right showing a list of captured video files with columns for Name and Size.
- Camera Control Pane:** A panel on the left for configuring Camera 1 and Camera 2, including FPS and Exposure settings.
- Preview Window:** A large central window showing a live video feed of a tray of soda cans, with a playback timeline at the bottom.

## File Stitching & Rotation Options For Multiple Cameras

The 'Stitch Options' dialog box allows users to configure camera rotation and stitching. It includes options for Camera Rotation (0°, 90°, 180°, 270°) and Swap Camera positions. A preview shows two camera views (Cam1 and Cam2) with red arrows indicating their relative positions.

## Flexible Recording Options

The 'File Length Options' dialog box provides settings for when to start new files. It includes options for 'On Multiples of' (e.g., 10 Minutes) and 'After' (e.g., 1 Hour) of recording. It also shows a list of times when new files will start if capture begins at a specific time.

## Dynamic Region Of Interest Adjustments For Easy Setup

The 'Region Of Interest' dialog box allows users to select a specific area within the camera's field of view for recording. It includes a 'Camera Select' dropdown and a 'Lock To Center' checkbox. A preview shows a gray square representing the camera's view with a smaller white square indicating the selected region of interest.