

Mega Speed MS35K V3

Maximum Camera Streaming Speeds And Image Sizes

1920 x 1080	=	280 fps
1280 x 1080	=	440 fps
1280 x 720	=	630 fps
960 x 720	=	840 fps
768 x 600	=	1260 fps
640 x 480	=	1900 fps
320 x 240	=	7000 fps



MS35K V3 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 4"
<input type="checkbox"/> Camera weight:	1200 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. 20W. 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[®] 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 menu items like File, Capture, DVR Settings, Camera Settings, Color Settings, View, and Help.
- Main Toolbar:** A horizontal bar below the menu containing icons for Start, Stop, Play, Pause, and other controls, along with resolution and frame rate settings.
- DVR Status:** A central status area displaying 'EPU Usage: 1%' and 'DVR overload: 0 / 6144'. It also shows 'Capturing to DVR: Compressed' and recording statistics like 'Frames Captured: 218, Time Elapsed: 3 seconds'.
- File Manager Pane:** A panel on the right side showing 'DVR File Manager' with a list of video files, their names, and sizes. It includes a search filter and a table of files.
- Camera Control Pane:** A panel on the left side for controlling two cameras, showing FPS and Exposure settings for each.
- 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 visual representation shows two camera positions, Cam1 and Cam2, with red arrows indicating their relative orientations.

Flexible Recording Options

The 'File Length Options' dialog box provides settings for when to start new files. It offers two options: 'On Multiples of' (set to 10 Minutes) and 'After' (set to 1 Hour) of recording. It also includes a list of times for when new files start, such as 12:13:05, 13:13:00, 14:13:00, 15:13:00, 16:13:00, and 17:13:00.

Dynamic Region Of Interest Adjustments For Easy Setup

The 'Region Of Interest' dialog box allows users to define a specific area of interest within the camera's field of view. It includes a 'Camera Select' dropdown (set to Camera 1) and a 'Lock To Center' checkbox. A visual representation shows a gray square representing the camera's view with a smaller white square indicating the defined region of interest.