

Mega Speed MS35K V1

Maximum Camera Streaming Speeds And Image Sizes

1920 x 1080	= 45 fps
1280 x 1080	= 80 fps
1280 x 720	= 95 fps
768 x 600	= 200 fps
640 x 480	= 340 fps
320 x 240	= 1000 fps



MS35K V1 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[®] 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 various icons for starting/stopping recording, camera settings, and other functions.
- DVR Status:** A central area displaying system metrics such as 'EPU Usage: 1%' and 'DVR overload: 0 / 6144'. It also shows recording status: 'Capturing to DVR: Compressed', 'Frames Captured: 218', 'Time Elapsed: 3 seconds', and 'Write Speed: 1.7 MB/s'. Drive space information is also provided: 'Drive space free: 3,720.5 GB, Approximately 26 days, 9:20:02'.
- File Manager Pane:** Located on the right, showing a list of captured video files with columns for Name and Size. A table of files is shown below:

R	Name	Size
	2016_04_25 - 11_56_45.avi	2.0 MB
	2016_04_25 - 11_56_38.avi	6.2 MB
	2016_04_25 - 11_56_36.avi	4.5 MB
	2016_04_25 - 11_56_33.avi	5.7 MB
	2016_04_25 - 11_46_19.avi	31.5 MB
	2016_04_25 - 11_37_51.avi	5.3 MB
	2016_04_25 - 11_37_22.avi	78.3 MB
	2016_04_25 - 11_36_38.avi	57.2 MB
	2016_04_25 - 11_35_26.avi	21.4 MB
	2016_04_25 - 10_50_35.avi	4,175.3 MB
	2016_04_25 - 10_36_41.avi	885.6 MB

Summary statistics at the bottom of the File Manager Pane: '5.1 GB in 11 videos (0 selected)', '3,720.5 GB of 3,725.9 GB free'.

- Camera Control Pane:** Located on the left, showing settings for two cameras (Camera 1 and Camera 2), including FPS and Exposure.
- Preview Window:** The central area displaying a live video feed from the cameras, showing a tray of soda cans (including a Diet can). It includes playback controls like play, stop, and zoom.

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 'Change Stitch Type' (Horizontal, Vertical). A visual representation shows two camera positions (Cam1 and Cam2) with arrows indicating their relative orientation.

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, 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 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 visual representation shows a camera's view with a white square indicating the selected region of interest.