

811 Performance Benchmarks for D1/VGA Resolution

Due to the extremely high data rates involved, Sensoray has tested **MODEL 811** with a cross-section of single board computers (SBCs) so that our customers can know whether similar systems will be capable of supporting the high data rates. The SBC modules listed below have been tested with the **MODEL 811** and found to have sufficient bandwidth.

OS	Preview	Recording/Compression
	<i>High resolution, with max frame rate -- 30fps</i>	<i>High resolution, with max frame rate -- 30 fps</i>
Windows XP (with DVD Player video source)	VGA: x 3 channels (on Dell Vostro 420, Intel Core2 Quad, Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Preview: with AMCap or 811 Demo App)	VGA: x 3 channels (on Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Recording: raw to x 3 .avi files with 811 Demo App)
Windows 7 Windows XP (with video camera source)	D1: x 1 channel, at 25 fps (on MSI MS-7309, AMD Athlon II x2 245 CPU, 2.9GHz, 4GB RAM) (Preview: with AMCap or 811 Demo App)	D1: x 1 channel, at 25 fps (on MSI MS-7309, AMD Athlon II x2 245 CPU, 2.9GHz, 4GB RAM) (Recording: raw to x 1 .avi files with 811 Demo App)
Ubuntu 9.10 (kernel 2.6.31)	D1: x 4 channels (on Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Preview: with app XawTV)	VGA: x 4 channels (on Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Compressing + Recording: real-time MPEG-2/4 to x 4 .avi/.mp4/.mov/.mpg files, using FFMpeg, 15% x 4)
openSuSE 11.2 (kernel 2.6.31.5)	D1: x 4 channels (on Dell Dimension C521, AMD Athlon 64 x2 Dual Core 3600+ (2 CPUs), @ 1.9 GHz, 512MB RAM) (Preview: with App XawTV)	D1: x 4 channels (on Dell Dimension C521, AMD Athlon 64 x2 Dual Core 3600+ (2 CPUs), @ 1.9 GHz, 512MB RAM) (Preview: with App XawTV)
RedHat Fedora 12 (kernel 2.6.31.5)	D1: x 4 channels (on Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Preview: with app XawTV, or VLC Player)	VGA: x 4 channels (on Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Compressing + Recording: real-time MPEG-2/4 to x 4 .avi/.mp4/.mov/.mpg files, using FFMpeg, 15% x 4)
CentOS 5.4 (kernel 2.6.18)	D1: x 4 channels (on MSI MS-7309, AMD Athlon II x2 245 CPU, 2.9GHz, 4GB RAM) (Preview: with VLC player)	D1: x 4 channels (on MSI MS-7309, AMD Athlon II x2 245 CPU, 2.9GHz, 4GB RAM) (Compressing + Recording: real-time MPEG-2/4 to x 4 .avi/.mp4/.mov files, using FFMpeg, 35% x1 +11% x3)
Knoppix 6.2.1 (kernel 2.6.32) (best live-DVD distro for PC and HW testing)	D1: x 4 channels (with Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Preview: with VLC player)	VGA: x 4 channels (with Dell Vostro 420, Intel Core2 Quad Q8200 @ 2.33 GHz (4 CPUs), 3GB RAM) (Compressing + Recording: real-time MPEG-2/4 to x 4 .avi/.mp4/.mov/.mpg files, using FFMpeg, 15% x 4)