2010 VISION Quick Reference Guide for Desktop

VISION Technology from AMD lets you enjoy a more vivid and smooth visual experience by combining cutting-edge

processing and video power.



☐ Create/Edit HD movies

Watch Blu-ray®/ **HD** movies Media player video conversion Watch DVD movies

☐ Advanced photo editing

Photo viewing

☐ Play 3D games

Online gaming Casual gaming

☐ Photo editing Photo viewing

☐ Play mainstream games

PREMIUM

vision

Watch DVD movies

Media player video

☐ Watch Blu-ray®/

conversion

Online videos

HD Movies

Casual gaming

□ Connect with friends using a Webcam

> Rich Internet browsing Email Internet browsing

■ Multitasking

☐ Watch Live TV on the PC



Basic photo editing

Mainstream gaming

☐ Connect with friends using a Webcam

Rich Internet browsing Email Internet browsing

☐ Edit/mix music

Convert CDs to MP3s Listen to music

☐ Record TV shows Live TV on the PC

Advanced multitasking



Platform Overclocking Massive headroom ATI Euefinitu technology Microsoft® DirectX® 11 support

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☐ Advanced photo editing

Basic photo editing Photo viewing

Play advanced 3D games

3D gaming Online gaming Mainstream gaming Casual gaming

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■ Megatasking

FEATURES AND BENEFITS

VISION Technology

- → VISION Technology from AMD enables reliable performance on today's most popular applications
- → Get vivid, lifelike photos and crystal clear streaming video with up to 1 billion colors
- → Featuring ATI Radeon[™] Graphics for a superior visual experience with your favorite casual games

VISION Premium Technology

- → With next-generation processor technology AMD Direct Connect Architecture, you can enjoy a highly responsive PC experience
- → Connect your PC to your HDTV and enjoy Blu-ray[™] [HD] movies with 7.1 surround sound and full 1080p detail with single-cable HDMI output
- → Speed up the conversion of video files and get fast video editing with ATI Stream Technology¹
- → Get dramatic energy efficiency improvements, automatically, with virtually no impact on performance with AMD PowerNow![™] 3.0 technology²

VISION Ultimate Technology

- → Deliver the speed, responsiveness, and performance of ultra-high bandwidth with power-optimized HyperTransport[™] 3.0 technology
- → Be highly creative from editing digital home video to creating high-quality HD movies – with multi-core processors and ATI Radeon™ Graphics
- → Experience dual-stream picture-in-picture on Blu-ray[™] [HD] video playback, whether on multiple monitors or devices with DVI, HDMI, or dual DisplayPort outputs
- → Optimize performance to respond efficiently to user demands with AMD Cool'n'Quiet™ technology, so you get an incredible PC user experience

VISION Black Technology

- → Enjoy seamless, vivid Blu-ray[™] [HD] playback and rich multimedia with unlocked performance and a single HDMI connection³
- → Overall system performance improvement on demanding applications with PCI Express[®] 2.0 for — for up to twice the throughput of PCI Express 1.0
- → Unleash massive power in today's advanced 3D games with next-generation effects enabled by DirectX[®] 11 support in the latest ATI Radeon™ Premium Graphics (VISION Black Technology includes ATI Radeon™ Premium Graphics in the HD 5700-series or better)
- → Experience 3D gaming, mega-tasking, and creative production applications on up to three monitors with ATI Eyefinity technology4



☐ Watch DVD movies Online videos

View photos Plau casual games ☐ Rich Internet

browsing Email Internet browsing

☐ Listen to music

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Tier	Chipset	СРИ	Clock Speed	TDP	Cache	GPU	VRAM	Memory Type
VISION Black	AMD 890FX	AMD Phenom™ II X6 1090T Six-Core processor	3.2 GHz	125w	9MB L3	ATI Radeon™ HD 5970 Premium Graphics	2GB	GDDR5
	AMD 890FX	AMD Phenom™ II X6 1090T Six-Core processor	3.2 GHz	95w	9MB L3	ATI Radeon™ HD 5870 Premium Graphics	1GB	GDDR5
	AMD 890GX	AMD Phenom™ II X6 1055T Six-Core processor	2.8 GHz	95w	9MB L3	ATI Radeon™ HD 5700 Premium Graphics	512MB/1GB	GDDR3/5
VISION Ultimate	AMD 890GX	AMD Phenom™ II X6 1055T Six-Core processor	2.8 GHz	95w	9MB L3	ATI Radeon™ HD 5670 Premium Graphics	512MB/1GB	GDDR3/5
	AMD 890GX	AMD Phenom™ II X4 965 Quad-Core processor	3.4 GHz	140w	6MB L3	ATI Radeon™ HD 5570 Premium Graphics	512MB/1GB	GDDR3/5
	AMD 890GX	AMD Phenom™ II X4 925 Quad-Core processor	2.8 GHz	95w	6MB L3	ATI Radeon™ HD 5570 Premium Graphics	512MB/1GB	GDDR3/5
VISION Premium	AMD 890GX	AMD Phenom™ II X2 925 Quad-Core processor	2.8 GHz	95w	6MB L3	ATI Radeon™ HD 5450 Premium Graphics	512MB/1GB	GDDR3
	AMD 870	AMD Athlon™ II X4 635 Quad-Core processor	2.9 GHz	95w	2MB L2	ATI Radeon™ HD 4850 Premium Graphics	512MB/1GB	GDDR3
	AMD 870	AMD Athlon™ II X3 425 Triple-Core processor	2.7 GHz	95w	1.5MB L2	ATI Radeon™ HD 4200 Integrated Graphics	64MB/128MB	sys-mem
VISION	AMD 870	AMD Athlon™ II X2 255 Dual-Core processor	3.1GHz	65w	2MB L2	ATI Radeon™ HD 4800 Premium Graphics	512MB/1GB	GDDR2
	AMD 870	AMD Athlon™ II X2 255 Dual-Core processor	3.1 GHz	65w	2MB L2	ATI Radeon™ HD 4350 Premium Graphics	256MB/512MB	GDDR2
	AMD 870	AMD Athlon™ II X2 240 Dual-Core processor	2.8 GHz	65w	2MB L2	ATI Radeon™ HD 3000 Integrated Graphics	64MB/128MB	sys-mem

Note: Additional hardware (e.g. Blu-ray drive, HD or 10-bit monitor, TV tuner) and/or software (e.g. multimedia applications) are required for the full enablement of some features. Not all features may be supported on all components or systems - check with your component or system manufacturer for specific model capabilities and supported technologies.

- 1 ATI Stream Technology works with applications specifically designed to enable its GPU acceleration features.
- 2 AMD PowerNowTM 2.0 Technology is comprised of a broad set of hardware and software technologies present in AMD processors. Not all processor models have all features or full enablement of these technologies and specific software drivers are required.
- 3 AMD product warranty does not cover damage caused by overclocking, even when enabled using AMD OverDrive™ software
- 4 ATI Eyefinity technology works with games that support non-standard aspect ratios, which is required for panning across multiple displays. To enable more than two displays, additional panels with native DisplayPort™ connections, and/or certified DisplayPort™ adapters to convert your monitor's native input to your cards DisplayPort™ or Mini-DisplayPort™ connector(s) are required.



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