

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.



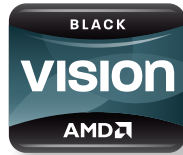
- Watch DVD movies**
Online videos
- View photos**
Play casual games
- Rich Internet browsing**
Email
Internet browsing
- Listen to music**



- Watch Blu-ray® / HD Movies**
Watch DVD movies
Media player video conversion
Online videos
- Photo editing**
Photo viewing
- Play mainstream games**
Casual gaming
- Connect with friends using a Webcam**
Rich Internet browsing
Email
Internet browsing
- Multitasking**
- Watch Live TV on the PC**



- Create/Edit HD movies**
Watch Blu-ray® / HD movies
Media player video conversion
Watch DVD movies
Online videos
- Advanced photo editing**
Basic photo editing
Photo viewing
- Play 3D games**
Online gaming
Mainstream gaming
Casual 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**



- Maximum control Platform**
Overclocking
Massive headroom
ATI Eyefinity technology
Microsoft® DirectX® 11 support
- Create/Edit HD movies**
Create/Edit movies
Watch Blu-ray® HD movies
Media player video conversion
Watch DVD movies
Online videos
- Advanced photo editing**
Basic photo editing
Photo viewing
- Play advanced 3D games**
3D gaming
Online gaming
Mainstream gaming
Casual gaming
- Connect with friends using a Webcam**
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- Record TV shows**
Live TV on the PC
- 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

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Tier	Chipset	CPU	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 PowerNow!™ 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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