

PRECISION 5490

Bring your creations
to life - and look
great doing it.



An amazing blend of performance and beauty

A thin, light and very capable 14" workstation

Intelligent Performance

Up to Intel® Core™, 14 Core Ultra (6P + 8E, 45W), 8GB Nvidia RTX 3000 Ada Generation graphics, 64GB of 7467MT/s LPDDR5x DDR5, M.2 SSD with PCIe Gen 4 support (4TB), (4) Thunderbolt™ 4

WiFi 7

Premium Audio

Top-firing tweeters and speakers bottom-facing subwoofers

Pro 2.5 keyboard

Optional Smart Card Reader

Advanced Thermals

User Selectable Thermals Tables (USTT)
Dual Opposing Output (DOO) fan with liquid crystal polymer blades
Dual intake venting
GORE insulation and Graphite heat spreaders

Industry's most secure commercial PC¹

Only Dell offers off-host BIOS verification and Indicators of Attack to reduce exposure to future threats.

Secured Component Verification, offered only by Dell, helps ensure PCs are secure from factory to first boot.

Dell and Intel reduce the attack surface. The latest Intel vPro-based PCs provide an estimated 70% attack surface reduction.²

Exceptional camera

HD IR camera, Windows Hello compliance, Ambient light sensor

Intelligent Mics

Dual array mics with noise suppression technology

Reliability

ISV Certified
MIL STD tested
Long battery life option

4-sided InfinityEdge display

14", 16:10, up to QHD+ display, 500 nits, low blue light (ComfortView Plus) display.

Interact with touch or pen.



Fingerprint reader on power button

Large click pad with optional NFC reader

Carbon fiber palmrest

Dell Optimizer for Precision

See the optimizer page to learn more



Simplified PC Updates

Get the latest BIOS, drivers and firmware versions, validated and delivered seamlessly, from Dell.

World's thinnest and lightest 14" workstation, starting at 3.26lbs/1.48kgs

Precision cut aluminum chassis

Up to 130W Type-C adapter

Up to 72Whr battery

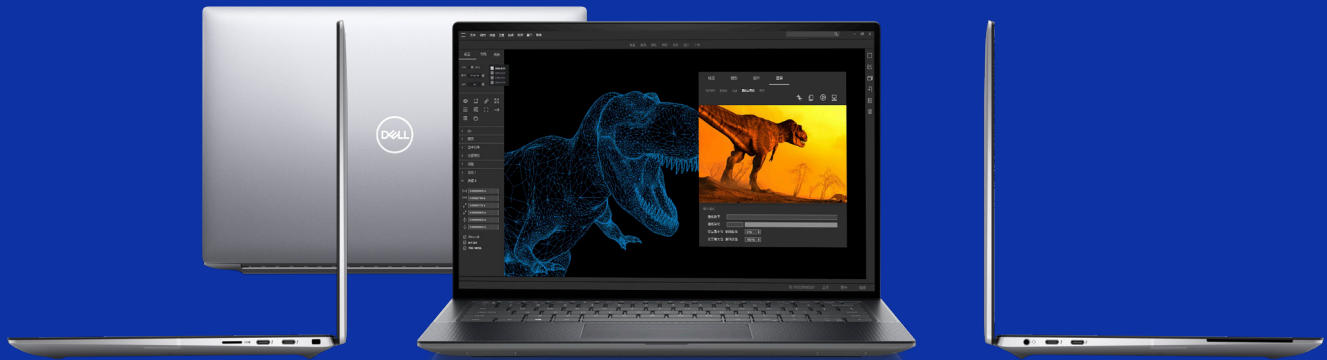
Sustainability

This workstation has achieved the EPEAT Gold Climate+ designation, meeting industry best practices for decarbonization.

[Click here](#) to see the 360 degree view of the Precision 5490

¹ Based on Dell internal analysis, September 2023. Applicable to PCs on Intel processors. Not all features available with all PCs. Additional purchase required for some features.

² The latest Intel vPro based PCs provide an estimated 70% attack surface reduction compared to four-year-old devices. Based on IOActive's 'Intel vPro 13th Gen Attack Surface Study' published March 2023 (commissioned by Intel), which evaluates Intel vPro devices powered by 13th Gen Intel Core processors against four-year-old Intel-based PCs on Windows OS. Details at www.intel.com/performance-vpro. Results may vary.



Intelligent performance

Amazing performance is packed into this thin and light workstation, featuring all-new Intel® Core™ Ultra processors, with fast integrated Intel® Arc graphics and **AI-accelerators featuring NPU for Intel® AI Boost with vPro options and Copilot in Windows 11** taking advantage of advancing AI technologies to improve user productivity across business and industry applications.



Immersive productivity and design

This 14" workstation boasts a 16:10 InfinityEdge display, up to QHD+ that provides for interactivity through pen and touch. Experience amazing color as well as low blue light to reduce eye fatigue. Jumpstart your workflow with the **Copilot Hardware Key**, which provides quick access to the tools you need to start your workday. Revolutionize your meetings with **Windows Studio Effects**. Keep your audience engaged with **video auto-framing** and maintain eye contact effortlessly, even while referencing your notes, thanks to **AI-eye tracking technology**. Elevate your experience with AI-powered tools from Windows 11. Easily make use of the **Snipping Tool**, **voice access**, and **smart recommendations** within File Explorer and your Start menu.



Mission critical reliability and security

All Dell Precision workstations are tested and certified by independent software vendors to ensure reliably performance. Plus, they are MIL STD tested. Secure your workstation in our hybrid world with the industry's most secure commercial PCs* with built-in features that our competitors cannot match. Be secure in the office or on the road with features like a Smart Card Reader, Fingerprint Reader, and an IR Camera with Windows Hello and proximity sensor. Layer on advanced threat protection with industry-leading partner software. Truly embrace hybrid work with secure and reliable 4G and 5G connectivity.



*Based on Dell internal analysis, September 2023. Applicable to PCs on Intel processors. Not all features available with all PCs. Additional purchase required for some features.

Dell Optimizer for Precision

Dell Optimizer is our AI-based optimization software that learns and responds to the way you work, designed to automatically improve application and device performance, PC and accessory battery run-time, audio/video settings and privacy – all in the background while you're working.



Get up to 18% in power savings¹

Save energy without sacrificing performance for ultimate efficiency with Power Optimization. Achieve power savings when you set your PC to Quiet Mode on your thermal management settings – giving you up to 2.4 watts of power savings compared to default mode.¹

Enhance application speed

Experience a boost in performance of your foreground application when running multiple programs simultaneously with Application Optimization.

Experience 2x faster network performance²

Network Optimization provides the world's first simultaneous multi-network connection for faster data and video downloads³, and joins the best network⁴ available.

Up-level audio for a better collaboration experience

Intelligent Audio senses your surroundings and improves the conferencing experience by removing unwanted sounds, alerts you when your voice quality is poor, and provides a better collaboration experience for you and all call participants.

Access personalized insights

Our Analytics feature monitors the utilization of your PC by analyzing your system's battery, storage, CPU and memory behavior to review your system's reliability and problem history, so you can identify bottlenecks quickly.

An intelligent ecosystem

Enjoy easy pairing and management of your Dell monitors and accessories with the integration of Dell Display Manager and Dell Peripheral Manager.

▶ [Click here to learn more about Dell Optimizer](#)

1. This is based on a Dell internal study, testing power and performance within our Dell Optimizer power module. White paper published November 2022 <https://www.delltechnologies.com/asset/en-us/solutions/business-solutions/industry-market/maximizing-power-efficiency-with-dell-optimizer-a-case-study.pdf>

2. Based on A Principled Technologies Report commissioned by Dell that ran PC performance benchmarks on Dell Latitude 9430 laptops and OptiPlex 7400 all-in-one desktop PCs: Improve PC app performance, battery charging, and end-user experiences with Dell Optimizer, June 2023

3. Simultaneous multi-network connection (or Connection based teaming) is a new connectivity feature under ExpressConnect. It simultaneously sends and receives data and video traffic using two wired or wireless connections. Based on Dell internal analysis

4. Best network selection based on signal strength, channel congestion, router type and others. Network suggestions based on user credentials.

Mobile Workstation Solution

Create your ideal workspace with these recommended accessories.



Dell UltraSharp 34 Curved Thunderbolt™ Hub Monitor

A revolutionary 34-inch dual QHD curved monitor with ultra-wide views, multitasking features and seamless connectivity for an immersive work experience.



Dell Collaboration Keyboard and Mouse - KM900

Designed with a surreal level of detail, our premium keyboard and mouse combo transform collaboration, enhance productivity and provide all-day comfort.



Dell EcoLoop Pro Backpack - CP5723

Designed for on-the-go productivity and protection, the Dell EcoLoop Pro Backpack 15 is made of eco-conscious material to complement busy lifestyles.



Dell Pro Wireless ANC Headset - WL5024

Experience enhanced communication with this wireless AI-based microphone and Hybrid Active Noise Cancellation headset, designed to reduce background noise and ensuring comfort to bring your productivity to the next level.



Dell UltraSharp Webcam - WB7022

Experience best image quality in its class with the world's most intelligent 4K webcam.*



3Dconnexion SpaceMouse Wireless - 3DX-700076

Simply push, pull, twist or tilt the 3Dconnexion controller cap to intuitively pan, zoom and rotate your 3D drawing.



Wacom Cintiq Pro 24 Creative Pen Display Touch - DTH-2420

Enhance your creative process with the Wacom Cintiq Pro 24. Featuring world-class color performance on one of Wacom's largest 4K screens.

▶ [Learn more about our Workspace Solutions](#)

* Based on internal analysis of external 4K personal conferencing webcams, April 2021.

** Based on an independent user study of 20 experienced webcam users commissioned by Dell. Participants evaluated the brightness, color saturation and sharpness of live web meeting video streamed with the Dell UltraSharp webcam and leading competitive external 4K personal conferencing webcams in uniform, low and high contrast lighting conditions (No physical webcams nor brands were shown to participants) (June 2021).

Simplify IT

Our secure¹ and simple to manage offerings make IT management a breeze

Improve fleet-wide security with Dell Trusted Workspace

Reduce the attack surface with the industry's most secure commercial PCs¹ with protections competitors cannot match:

Be secure from first boot

Rigorous, state-of-the-art supply chain controls and Dell-unique Secured Component Verification reduce the risk of product tampering.

Spot ticking timebombs

Early-alert feature Indicators of Attack, offered only by Dell, scans for behavior-based threats.

Stay protected from evolving threats

Only Dell offers off-host BIOS and firmware verification, providing greater security than other PCs.¹ Comprehensive security support further minimizes the risk of attack in-use.

Layer on advanced threat protection with software from our ecosystem of best-of-breed partners (e.g., CrowdStrike, Absolute).

[Learn More >](#)

Manage your fleet of PCs - reliably and easily

Help secure and optimize your endpoints and deliver end-user productivity with Dell Manageability Solutions

Dell Trusted Update Experience makes it simple to update endpoints with the latest BIOS, driver, and firmware versions.

Dell is the only Top-5 PC vendor that:



Publishes² a device drivers and downloads release schedule: IT Admins can deploy fleet-wide device updates on a predictable timeline.



Performs³ integrated validation of all driver and BIOS modules in an update: IT Admins can expect a trusted, system compatible update deployment, across a fleet of devices.

[Learn More >](#)

DELL Technologies

A P E X

Experience the flexibility to transform your IT and deploy the latest technologies at predictable costs



Dell APEX Managed Device Service

Designed for small and medium business with limited or no in-house IT, this fully managed subscription includes a team of IT experts that keep business devices up-to-date and secure, with no year-long commitment required (US only.)



Dell APEX PC-as-a-Service

Designed to meet the specific IT needs of larger companies, this fully customizable subscription covers everything – devices, software and services available from one-to-five-year terms.

[Learn More >](#)



Sustainability on Dell Precision 5490

Delivering innovative technology and solutions to collectively lower our environmental impact.

Built with Sustainable Materials

Designed with 35% post-consumer recycled plastic in components including the LCD bezel, cable covers, and keyboard frame.¹ This workstation also ships with an adapter that is designed with 90% recycled plastic in the case and 50% recycled copper in the adapter cable.²

Packaging Innovation

Your Precision 5490 workstation ships in packaging made with 100% recycled or renewable content, that is also 100% recyclable.³

Environmental Certifications & Registrations

Meeting environmental standards demonstrates how our products adhere to energy-efficiency specifications and other extensive climate-related standards. Certified ENERGY STAR® 8.0, TCO certified, generation 9 and EPEAT gold registered with Climate+ designation.⁴



See how we are reducing the impact of our products and solutions Dell.com/Sustainable-Devices

¹ Based on internal analysis, January 2024

² Based on internal analysis, January 2024.

³ Contains 72% recycled content and 28% renewable materials. Renewable materials in the form of sustainably forested fibers. Percentages may vary slightly by region. Excludes optional items added to order and included in box. Paper packaging materials can be recycled via municipal recycling, where available. System bag is made from recycled plastic and can be recycled along with other thin plastics. See local recycling guidelines.

⁴ Based on internal analysis, January 2024. Based on EPEAT Climate+ Designations achieved in all applicable countries. EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status and tier levels.

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER¹	Precision 5490		
PROCESSOR OPTIONS¹	Intel Ultra 9 185H, Processor Cores 16, Threads 22, Cache 24MB, up to 5.10GHz Intel Ultra 7 165H, Processor Cores 16, Threads 22, Cache 24MB, up to 5.00GHz Intel Ultra 7 155H, Processor Cores 16, Threads 22, Cache 24MB, up to 4.80GHz Intel Ultra 5 135H, Processor Cores 14, Threads 18, Cache 18MB, up to 4.60GHz	ACCIDENTAL DAMAGE SERVICES	1-year Accidental Damage Service 2-year Accidental Damage Service 3-year Accidental Damage Service 4-year Accidental Damage Service 5-year Accidental Damage Service
OPERATING SYSTEM¹³	Windows 11 Pro, 64-bit Windows 11 Pro National Education, 64-bit Windows 11 Home, 64-bit RedHat Enterprise Linux 8.6 (64-bit) Ubuntu® Linux® 22.04 (64-bit)	KEYBOARD¹	Spill resistant, Available in many languages, backlit optional.
MEMORY OPTIONS^{13,14,15}	16GB, LPDDR5, 7467 MT/s, integrated, dual-channel 32GB, LPDDR5, 7467 MT/s, integrated, dual-channel 64GB, 7467 LPDDR5x, 7467 MT/s, integrated, dual-channel	PORTS	(4) ThunderBolt™ 4 ports with PowerDelivery and DisplayPort (USB Type-C™) Headset (headphone and microphone combo) port
STORAGE^{13,16}	M.2 2230, 256GB, PCIe NVMe Gen4 x4, Class 35 SSD M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 2TB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 4TB, PCIe NVMe Gen4 x4, Class 40 SSD M.2 2280, 512GB, PCIe NVMe Gen3 x4, Class 40 SSD, self-encrypting drive M.2 2280, 512GB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive M.2 2280, 1TB, PCIe NVMe Gen4 x4, Class 40 SSD, self-encrypting drive	SLOTS	SmartCard Reader (optional) MicroSD is optional Wedge-shaped lock slot
VIDEO CARD	Integrated: Intel Arc Graphics Xe Graphics Discrete: (optional) NVIDIA RTX 1000 Ada Generation, 6GB GDDR6 NVIDIA RTX 2000 Ada Generation, 8GB GDDR6 NVIDIA RTX 3000 Ada Generation, 8GB GDDR6	DIMENSIONS	US Dimensions Height (rear): 0.43in. (11.09mm) Height (peak): 0.74in. (18.95mm) Height (front): 0.29in. (7.49mm) Width: 12.22in. (310.60mm) Depth: 8.27in. (210.35mm) Weight: 3.26lb (1.48kg) ROW Dimensions Height (rear): 11.09mm (0.43in.) Height (peak): 18.95mm (0.74in.) Height (front): 7.49mm (0.29in.) Width: 310.60mm (12.22in.) Depth: 210.30mm (8.27in.) Weight: 1.48kg (3.26lb)
DISPLAY¹³	14-inch, 16:10 FHD+, 1920 x 1200, 60Hz, anti-glare, non-touch, 100% sRGB, 500 nits, wide-viewing angle, narrow bent, TÜV low blue light (ComfortView Plus), PremierColor 14-inch, 16:10 QHD+, 2560 x 1600, 60Hz, anti-reflection, touch, 100% sRGB, 500 nits, wide-viewing angle, narrow bent, TÜV low blue light (ComfortView Plus), PremierColor, active pen support	CAMERA	720p at 30 fps, HD IR Camera with ALS sensor
CASE COLOR	Anodized Titan Gray	AUDIO & SPEAKERS¹³	Stereo speakers with Dialog, 2W x 4 = 8W total
PRODUCTIVITY SOFTWARE¹³	Dell Support Assist DDRE (Dell Developed Recovery Environment) Dell Optimizer for Precision Dell Support Center Intel® WiFi Direct	WIRELESS	Intel® Wi-Fi 7 BE200, 2x2, 802.11be, MU-MIMO, Bluetooth® 5.4 wireless card
PRIMARY BATTERY	4-cell, 72Whr "smart" lithium-ion, ExpressCharge™, optional Long Cycle Life		

FEATURE	TECHNICAL SPECIFICATION	FEATURE	TECHNICAL SPECIFICATION
MODEL NUMBER¹	Precision 5490		
WARRANTY^{1&20}	1-year hardware service with on-site/in-home service after remote diagnosis 2-year hardware service with on-site/in-home service after remote diagnosis 3-year hardware service with on-site/in-home service after remote diagnosis 4-year hardware service with on-site/in-home service after remote diagnosis 5-year hardware service with on-site/in-home service after remote diagnosis 1-year ProSupport with Next Business Day on-site service 2-year ProSupport with Next Business Day on-site service 3-year ProSupport with Next Business Day on-site service 4-year ProSupport with Next Business Day on-site service 5-year ProSupport with Next Business Day on-site service 1-year ProSupport Plus with Next Business Day on-site service	POWER¹³	100W AC adapter, USB-C (UMA only) 130W AC adapter, USB-C (Discrete only)
SENSORS	Ambient Light Sensor IR User Accelerometer Adaptive Thermal Performance (Lap vs. Desk mode) requires Gyro/Accelerometer (NOTE: This is for thermal only.) Hall Effect Sensor	REGULATORY^{18,21}	Product Safety, EMC and Environmental Datasheets Dell Regulatory Compliance Home Page Dell and the Environment
SYSTEMS MANAGEMENT	Dell Client Command Suite: Streamline how you deploy drivers, BIOS, monitor devies and manage updates. Dell Trusted Update Experience: Simplify how you update your endpoints with the latest BIOS, driver and firmware versions.		
INTEL RESPONSIVENESS TECHNOLOGIES	Intel® Rapid Strorage Technology		

Technical specifications subject to change without prior notice. Product availability varies by country. Please contact your Dell representative for more information.
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FEATURE	TECHNICAL SPECIFICATION	DESCRIPTION	
MODEL NUMBER¹	Precision 5490		
HARDWARE & FIRMWARE SECURITY (INCLUDED)	Dell Trusted Device	Generates insights into the security state of a platform, monitoring changes to BIOS attributes, detecting possible tampering of BIOS firmware, and more.	
	Dell SafeBIOS	Verify the integrity of the BIOS with tamper detection and secure, off-host BIOS image capture.	
	Dell SafeBIOS Indicators of Attack	Scan for behavior-based threats for early detection by enabling telemetry integration with popular third-party security and endpoint management solutions. <i>Includes Microsoft Intune, Carbon Black Cloud, CrowdStrike, Splunk.</i>	
	Dell SafeBIOS Common Vulnerabilities & Exposures (CVE) Detection	Identify and address known BIOS vulnerabilities and patch devices swiftly. <i>*Available early 2024.</i>	
HARDWARE & FIRMWARE SECURITY (OPTIONAL)	Dell SafeID	Secure end-user credentials. This unique hardware-based security solution provides a hardened and secure bank for storing and processing user credentials. Dependent on model. Credential security options may include: <ul style="list-style-type: none"> Secure interaction with Imprivada for authenticating credentials on multi-user devices Finger Print Reader in Power Button tied to ControlVault 3 ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification Contacted Smart Card and ControlVault 3 Contactless Smart Card, NFC, and ControlVault 3 SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL FIPS 201 Full Scan Finger Print Reader and ControlVault Trusted Platform Module (TPM) 2.0 discrete FIPS 140-2 certification for TPM 	
	Dell Secured Component Verification	Provides assurance that the device and its components remain secure from factory to first boot. On-device and cloud-based options available. Availability varies by region.	
	Tamper-evident packaging	Detect tampering with this supply chain assurance offering. Availability varies by region.	
	Hard drive wipes	Sanitize the hard drive in accordance with National Institute of Standards and Technology (NIST) guidelines with this supply chain assurance offering. Availability varies by region.	
	Dell SafeShutter	Ensure user privacy with webcam shutter.	
	Intel ME Verification	Verify the integrity of critical firmware using a secure off-host source. Requires Intel vPro.	
	Chassis intrusion switch	Remotely detects hardware tampering and is integrated with Dell SafeBIOS Indicators of Attack.	
	Kensington Security Slot™	Device locking option helps reduce the risk of a data breach. Standard slot that can be paired with a standard security cable lock. Spec varies by model: <ul style="list-style-type: none"> Dell Fixed Workstations (Desktops): Kensington Security Slot™ (T-bar) Dell Laptops: Kensington Security Slot™ (Wedge) 	
	Fingerprint reader	Fingerprint reader in Power button tied to ControlVault 3+ secures end-user credentials.	
	OPAL drive / Self-encrypting drive (SED)	Hardware-based full disk encryption that protects user data without storing encryption keys in RAM where it can be accessed by malicious parties.	
	SPI Flash Tamper Detection Circuit	Detects and prevents tampering with BIOS SPI flash chips on the motherboard.	
	SOFTWARE SECURITY (OPTIONAL)	Dell SafeGuard & Response: CrowdStrike, Carbon Black, Secureworks	Threat detection and response/remediation.
		Dell SafeData: Absolute	Self-healing for applications and networks.
Dell SafeData: Netskope		Cloud and network data protection.	
McAfee Business Protection		Simple, automated, all-in-one security made for small businesses.	

Product Disclosures:

* Based on internal analysis, April 2021. Dell Optimizer available in 2020 devices, not available in OptiPlex 3000 series, Latitude 3310 2-in-1 and Latitude Chromebook Enterprise. Feature availability and functionality varies by model.

1. Based on Dell internal analysis of competitive PC performance software and applications. September 2021. Intelligent Privacy is available on select Dell systems and devices.
2. Available on Latitude 9000 and select 7000 series; Precision mobile workstations 7000 and select 5000 series. See product details for availability.
3. ExpressConnect available with Dell Optimizer software version 2.0 and onwards. Download the latest at www.dell.com/support/home.
4. Disclaimer: Simultaneous multi-network connection (or Connection based teaming) is a new connectivity feature under ExpressConnect. It simultaneously sends and receives data and video traffic using two or more wired or wireless connections. Based on Dell internal analysis.
5. Best network selection based on signal strength, channel congestion, router type and others. Network suggestions based on user credentials.
6. ExpressResponse must be enabled in the Applications feature. DO learns how user uses the selected application(s) over several hours. Based on Dell testing using Sysmark 2018 benchmark on a Latitude system running productivity applications; and using performance evaluation benchmarks on Precision mobile workstations running ISV applications, March 2020. Improvement will vary based on product configuration, use, application and other factors
7. User must input preferred apps first in order for them to be analyzed.
11. Based on Dell analysis, Jan 2021. 21% bioplastics in LCD coverlid.
12. EPEAT registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.
13. Offering may vary by region. Some items may be available after product introduction. For complete details, refer to the Technical Guidebook published on www.dell.com/support.
14. System Memory and Graphics: Significant system memory may be used to support graphics, depending on system memory size and other factors.
15. 4GB or Greater System Memory Capability: A 64-bit operating system is required to support 4GB or more of system memory.
16. Storage Option: GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.
17. Computrace: Not a Dell offer. Certain conditions apply. For full details, see terms and conditions at www.ijackforlaptops.com.
18. Please refer to www.epeat.net for specific country registration rating and participation.
19. Limited Hardware Warranty: For copy of Ltd Hardware Warranty, write Dell USA LP, Attn: Warranties, One Dell Way, Round Rock, TX 78682 or see www.dell.com/warranty.
20. On-site service after Remote Diagnosis: Remote Diagnosis is determination by online/phone technician of cause of issue; may involve customer access to inside of system and multiple or extended sessions. If issue is covered by Limited Hardware Warranty (www.dell.com/warranty) and not resolved remotely, technician and/or part will be dispatched, usually within 1 business day following completion of Remote Diagnosis. Availability varies. Other conditions apply.
21. For complete listing of declarations and certifications, refer to the Dell Regulatory and Environmental Datasheet found in the Manuals section of Product Support information www.dell.com/support/home/us/en/19.