

Lenovo Workstations



Chris Sutcliffe | Workstation Account Executive 2019



Moto Mods



Moto Vital mod



Yoga C930



Yoga C630



Yoga Book C930



Legion Y730



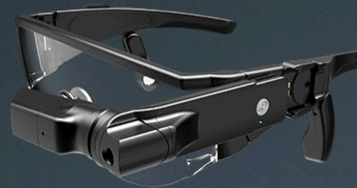
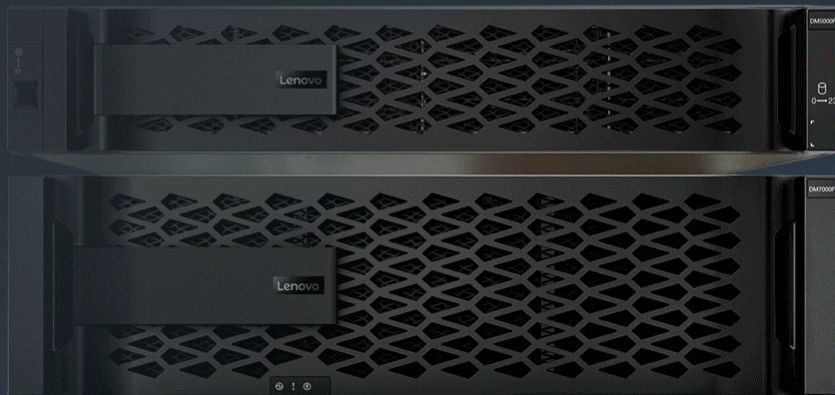
Mirage Solo and Camera
with Daydream



Star Wars: Jedi Challenges



Lenovo Smart display



Smart Glasses C220



ThinkPad X1 Carbon 6th Gen



ThinkSmart Hub 500





60

countries and
business in 160
countries

15

R&D locations
worldwide



37

manufacturing
facilities with
12 fully-owned



\$1.2B

investment in AI
R&D

3

new AI innovation
centers



50K

employees

3.2K

engineers,
researchers and
scientists

AI

INDUSTRY INSIGHTS

ARTIFICIAL INTELLIGENCE (AI) FOR
ARCHITECTURE, ENGINEERING &
CONSTRUCTION (AEC)

Lenovo



Within the AEC industry, AI is changing the game; extracting knowledge from complex data and enhancing decision-making using:



Generative



GENERATIVE
DESIGN

Lenovo ThinkRevolutionist MX3D is breaking the mold; creating the first ever 3D-printed steel bridge over an iconic canal in the heart of Amsterdam. MX3D utilizes new techniques to bring design and construction from the past and into the future.

Lenovo™

What is a Workstation!

Workstation **≠** Desktop / Laptop

More Compute  Up to 56 Cores!

More Stability  Built for Constant Operation!

Built for Professionals  ISV Certified Drivers & Configurations

More Expandability  Up to 3x PCIe x16 Graphics Cards

More PCIe Lanes  Up to 48 Lanes per CPU

More RAM  Up to 1TB

WHAT SOFTWARE DO YOU USE

3D Modeling / Mapping



Data Analytics / AI / DL



Media & Entertainment



Development



Simulations

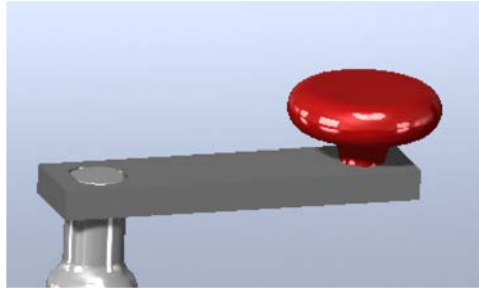


SOME FEATURES ONLY AVAILABLE WITH ISV CERTIFICATION

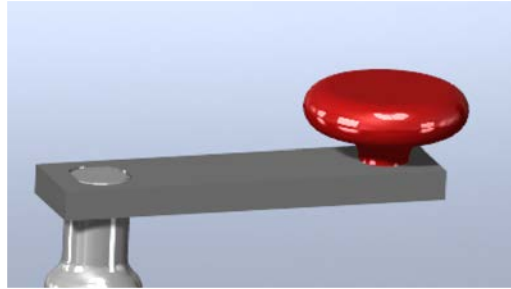
Example: SOLIDWORKS

These features are automatically disabled on non-certified systems

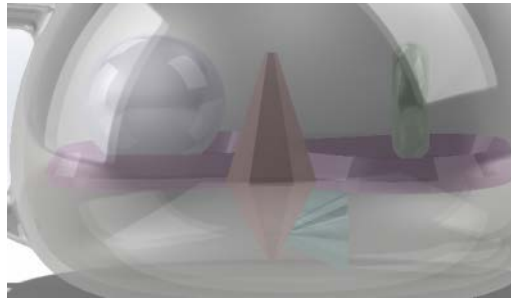
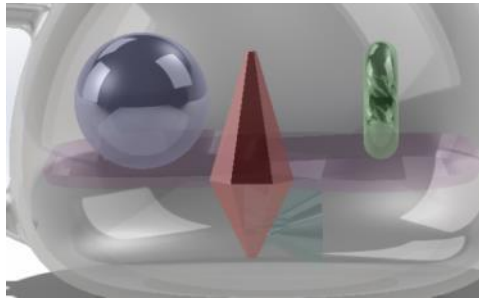
Uncertified



Certified



-Full-Screen Anti-Aliasing (FSAA), smoothes jagged edges



-Order Independent Transparency, areas blend correctly, see correct order



-Enables RealView® Graphics for advanced/realistic shading

Certification Brings the
Highest Quality
Solution

Pushing Back The Limits!

With Lenovo ThinkStation and Nvidia Volta, it is now easier to view live content quicker and in greater detail

- Up to 56 Cores per Workstation for added CPU

compute



- Up to 3 Double Wide Graphics Cards



- Access to new features like Real-Time RayTracing



NVIDIA Quadro RTX GPUs

	MEDIA & ENTERTAINMENT	MANUFACTURING	AEC
RENDERING	 Content Creation	 Product Design	 Building Design
AI	 Up Res	 Generative Design	 Generative Design
VR	 Content Creation	 Design Review	 Design Review

QUADRO RTX VALUE FOR INDUSTRIES

Quadro RTX brings real change:

Key Benefits:

- Real-time rendering speeds up the creative workflow
- AI-augmented tools accelerate the creative process
- VR powers design reviews, compelling content creation & entertainment experiences

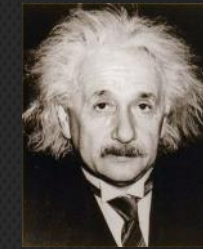
WHY LENOVO WORKSTATION

All of these people are
featured in the
Top 10 of A&E Biography's
list of the 100
*Most Influential People of the
Millennium*

BUT NONE OF THEM ARE #1



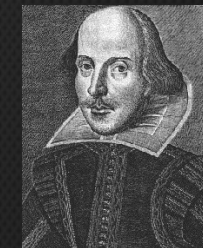
Isaac
Newton



Albert
Einstein



Charles
Darwin



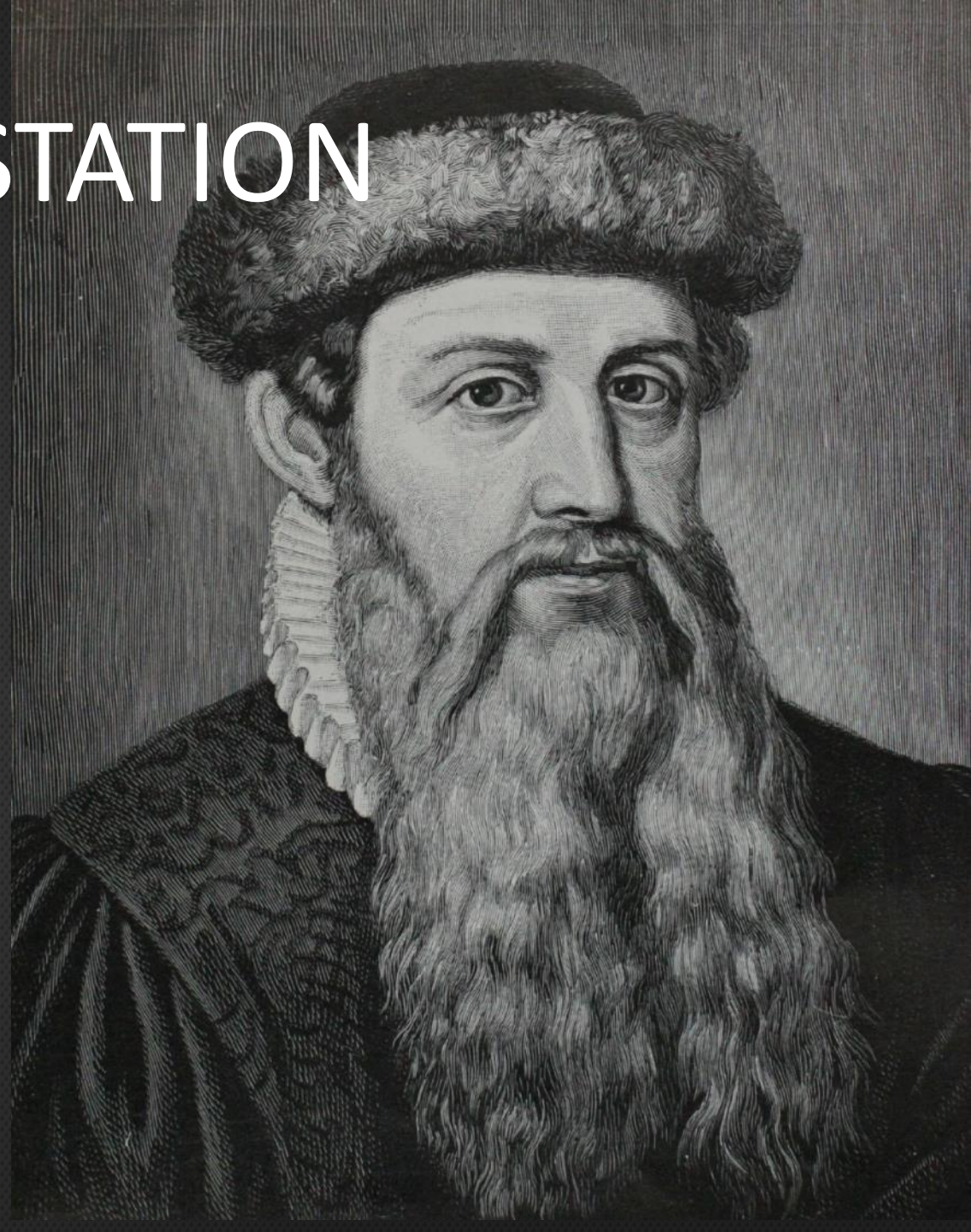
William
Shakespeare

WHY LENOVO WORKSTATION

The Most Influential Person of the Millennium is **Johannes Gutenberg**

Inventor of the printing press

The printing press allowed Newton, Einstein, Darwin, and Shakespeare to communicate their ideas to the masses and for all time.



OUR APPROACH

SOLUTIONS

Tailored to the needs of specific users



We **combine** hardware, software and expertise to help unleash a users potential

- Thoughtfully designed **hardware** allows for unparalleled performance, usability, and reliability
- **Software** tools to optimize performance
- **Customer Solutions Team** provides unmatched expertise and support

THINKREVOLUTION

Investing in visionaries



We invest in visionaries who push the boundaries of technology to change their industries and the world. They are focused on tasks such as....

- Smarter Construction
- Cleaner Oceans
- Education that Inspires
- Better Healthcare



THINKREVOLUTIONIST: THE HELPING HAND PROJECT

Pick up a ball. Paint a picture. Wave goodbye. A child can't do any of these without a hand. The Helping Hand Project (The HHP) provides 3D printed prosthetic hands free of charge to children in need so they have every opportunity to live up to their full potential.

MAKING A DIFFERENCE IS WITHIN OUR GRASP

Each year approximately 1,500 children in the US alone are born with upper-limb differences. Many of these children are unable to use traditional prosthetic devices. For those who can, the high cost may put

Latest Blog Updates



Delivering the Ideal System for However You Work

P SERIES
ThinkPad Strength



P SERIES
ThinkStation Power



Lenovo[™]

So What?

Technology
Differentiators

The ThinkStation P Series: The Best-Designed Workstation Ever

UNPARALLELED USABILITY

UNMATCHED PERFORMANCE

SUPERIOR RELIABILITY



Lenovo™

Designed for Ease of Use

MODULAR DESIGN

Upgrades have never been easier:
Just pull on the intuitive red touch point
and remove the component.

TOOL-LESS ACCESS

Access everything, even the
motherboard, tool-lessly.

INTEGRATED HANDLES

Easier to carry, move, and place in
a rack to fit neatly into workspaces.



Boost Your Productivity

Latest Intel® Xeon® CPUs

**Up to 4 powered NVIDIA®
Quadro® graphics cards***

**Up to 3 NVIDIA® Quadro®
P6000 graphics cards
or GP100 compute cards**

SAS 12Gbps support

FLEX Drives (M.2 PCIe SSDs)

DDR4 ECC memory –
Up to 2TB support

ISV certified

*up to 825W



Lenovo Performance Tuner



Ensuring customers get the most out of their investment; this free software adjusts system resources to optimize performance and user experience, all in one, easy-to-access tool.

- **Increase performance:** Eliminate interruptions to allow single-threaded applications, like most CAD applications, to have dedicated core support for blazing fast workflows.
- **Increase productivity:** Eliminate bottlenecks by carving out resources for heavy workloads, like multi-threaded applications, while allowing your system to continue to function during renderings or simulations.
- **Optimized manageability:** Maintain control and flexibility through customizable application profiles, admin control and lockable application profiles, perfect for IT professionals, and resource monitoring.

Whether you are a tech expert, looking to fine-tune your system or an end user looking for a plug-and-play tool; LPT offers the solution.

Lenovo Performance Tuner

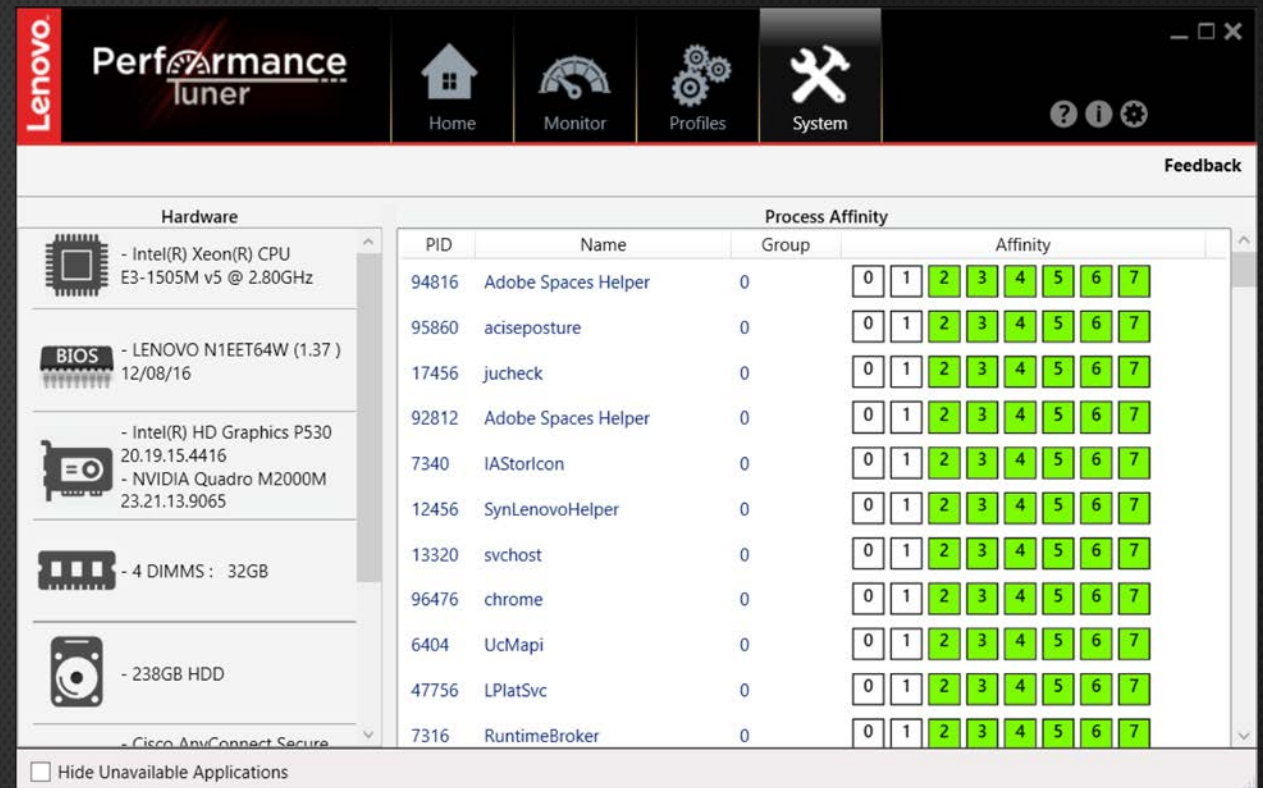
Exclusive to Lenovo

■ LPT offers:

- Application Affinity
- Application Priority
- Power Management
- Resource Monitoring and Tuning
- Graphics Management
- BIOS Management

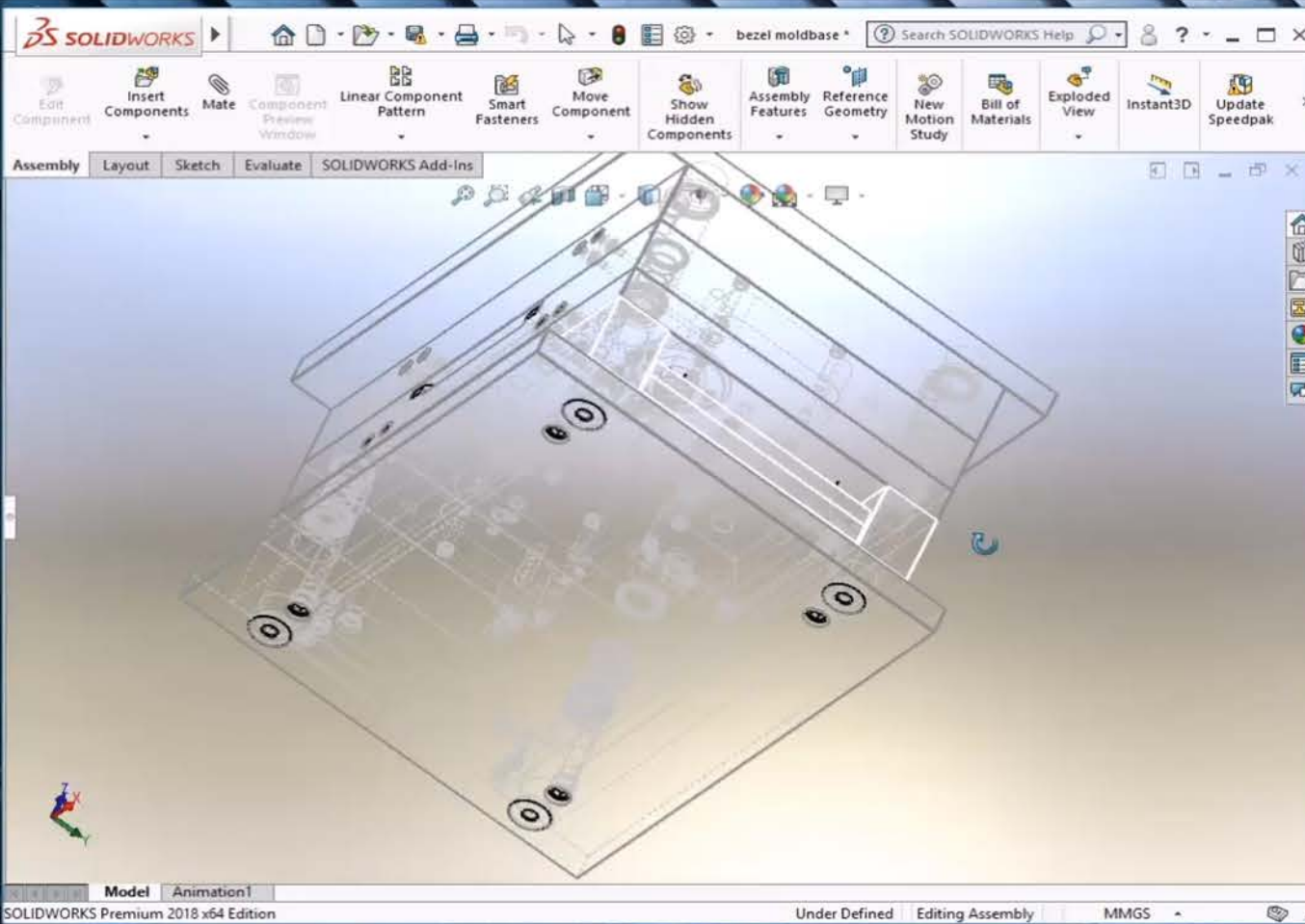
■ Predefined profiles for top applications:

- Over 35 profiles, created internally
- Includes multiple application versions
- Adjust and manage resources
- Customizable
- Export and import profiles



To learn more click [here](#), or try it out [here](#) to see the difference.

LPT Example Using Solidworks



Run Strong, Without Fail

COOLER THAN THE REST

The ThinkStation P Series has been tried and tested. The results show up to 60% cooler* temperatures than other workstation manufacturers.

TRI-CHANNEL COOLING

The patented tri-channel architecture ensures each component receives cool air.

* According to a 2015 Principled Technologies Workstation Thermals, Acoustics, and Power Consumption Testing



UTILIZING NATURE TO DRIVE EFFICIENCY

Keeping components cool with higher thermal system efficiency.
ThinkStations are engineered to channel maximum airflow over key components.



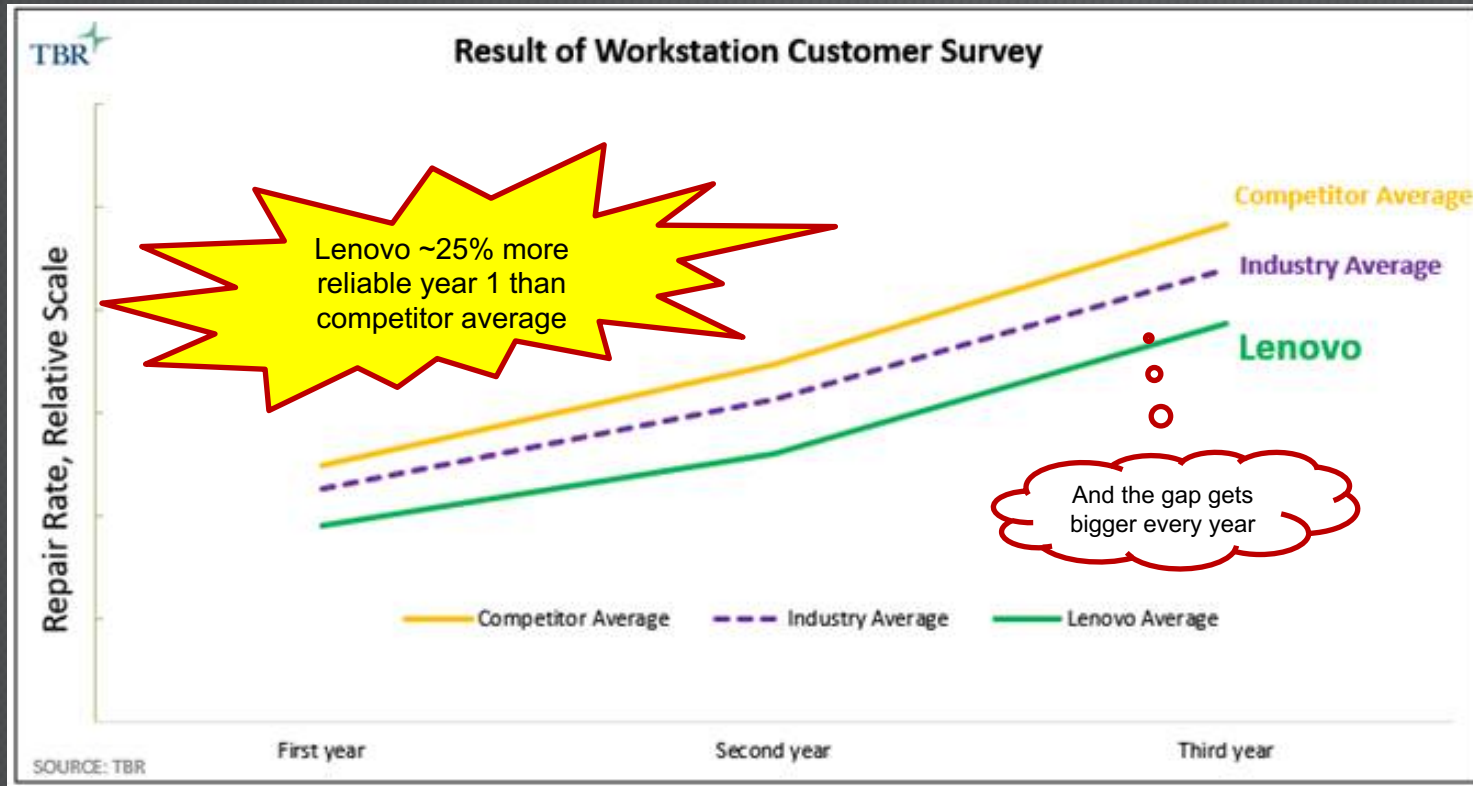
Lenovo™

Legendary Quality

Lower Warranty Repair Rates

In 2019, a TBR Repair Rate study* showed Lenovo workstations are the lowest among top competitors across the first three years. This includes both tower and mobile workstations.

Lenovo was also the only vendor below the industry average for all three years.



**More Reliable
than the
Competition**

+

**More Reliable
than the
Industry**

=

**Most Reliable
Workstations**



Lenovo™

Lenovo Workstation Diagnostics

ThinkStation Diagnostics



ThinkStation Diagnostics brings insight to the workings of your system in real time, right on the desktop. This feature gives users a heads-up in the event of an issue; providing easy-to-understand guidance and troubleshooting to better understand, and address, what's going on.

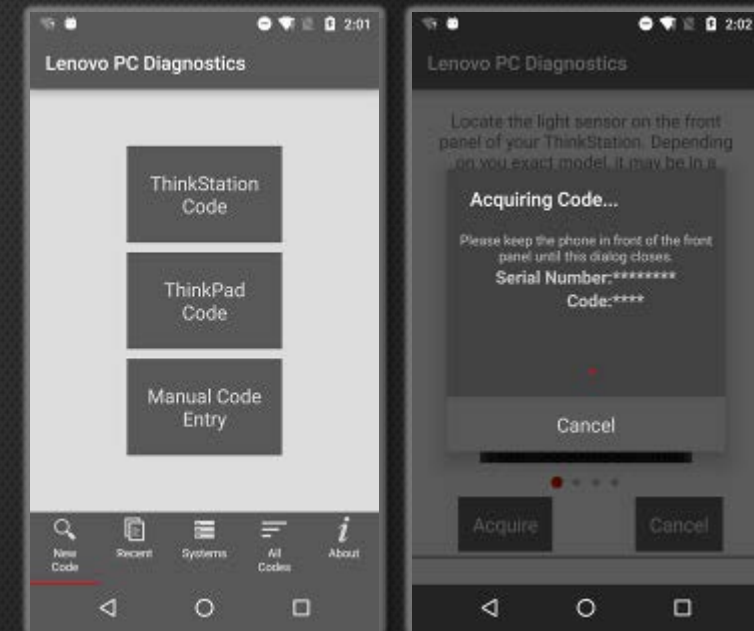
Event Code	Type	Category	Description
P100		Power Supply	Low AC Input Voltage Warning This warning should not impact the stability of the system. If the warning occurs multiple time within a short period, follow the actions for code P101.
S006		System Voltages & Power	5V Standby Bus Initialization Failure Possible source of alert: <ul style="list-style-type: none">Foreign object causing a short.A device in the system is working outside specification.System device (adapters, memory, etc.) drawing too much power Suggested actions: <ol style="list-style-type: none">Shut off the system.Check for foreign objects on electronic components in the system.Remove non-essential I/O such as USB keys. Remove non-essential devices, reducing to minimize memory and adapters. If the diagnostic alert is resolved, add back devices one at a time to determine problem device.Contact Lenovo service.

These step-by-step troubleshooting messages take the guesswork out of errors; and additionally allows users to know if the unit is under warranty.

Lenovo PC Diagnostics



Lenovo PC Diagnostics allows your workstation to communicate directly to your mobile device in the event the system will not boot or power on. This application provides instant diagnostics and potential solutions when there are no signs of life. Available for both Android and iOS, it reads an error code from the system via a front light sensor and auditory tone.





0:31 / 1:54



Lenovo™

Lenovo Workstation Diagnostics

ThinkStation Diagnostics



ThinkStation Diagnostics brings insight to the workings of your system in real time, right on the desktop. This feature gives users a heads-up in the event of an issue; providing easy-to-understand guidance and troubleshooting to better understand, and address, what's going on.

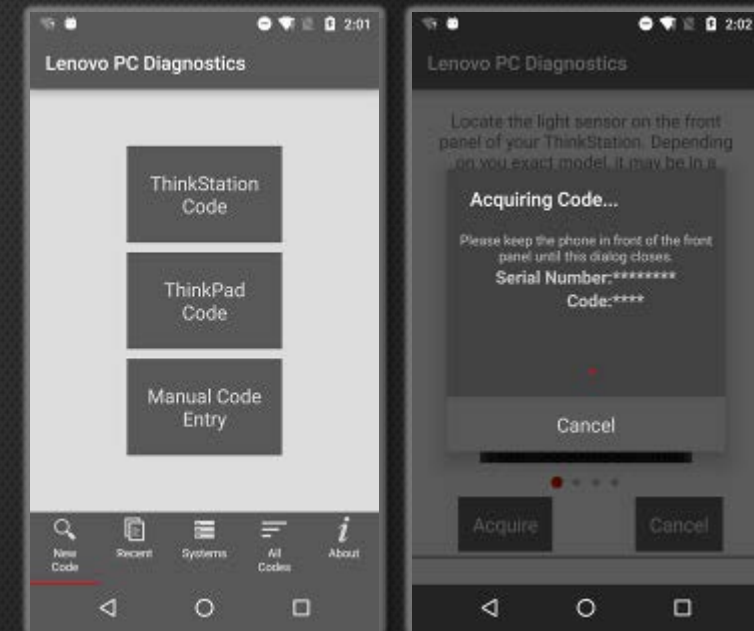
Event Code	Type	Category	Description
P100		Power Supply	Low AC Input Voltage Warning This warning should not impact the stability of the system. If the warning occurs multiple time within a short period, follow the actions for code P101.
S006		System Voltages & Power	5V Standby Bus Initialization Failure Possible source of alert: <ul style="list-style-type: none">Foreign object causing a short.A device in the system is working outside specification.System device (adapters, memory, etc.) drawing too much power Suggested actions: <ol style="list-style-type: none">Shut off the system.Check for foreign objects on electronic components in the system.Remove non-essential I/O such as USB keys. Remove non-essential devices, reducing to minimize memory and adapters. If the diagnostic alert is resolved, add back devices one at a time to determine problem device.Contact Lenovo service.

These step-by-step troubleshooting messages take the guesswork out of errors; and additionally allows users to know if the unit is under warranty.

Lenovo PC Diagnostics



Lenovo PC Diagnostics allows your workstation to communicate directly to your mobile device in the event the system will not boot or power on. This application provides instant diagnostics and potential solutions when there are no signs of life. Available for both Android and iOS, it reads an error code from the system via a front light sensor and auditory tone.



Think CORE TENETS

Think

PURPOSEFUL DESIGN

RELENTLESS INNOVATION

TRUSTED QUALITY

Enhanced Security & Authentication

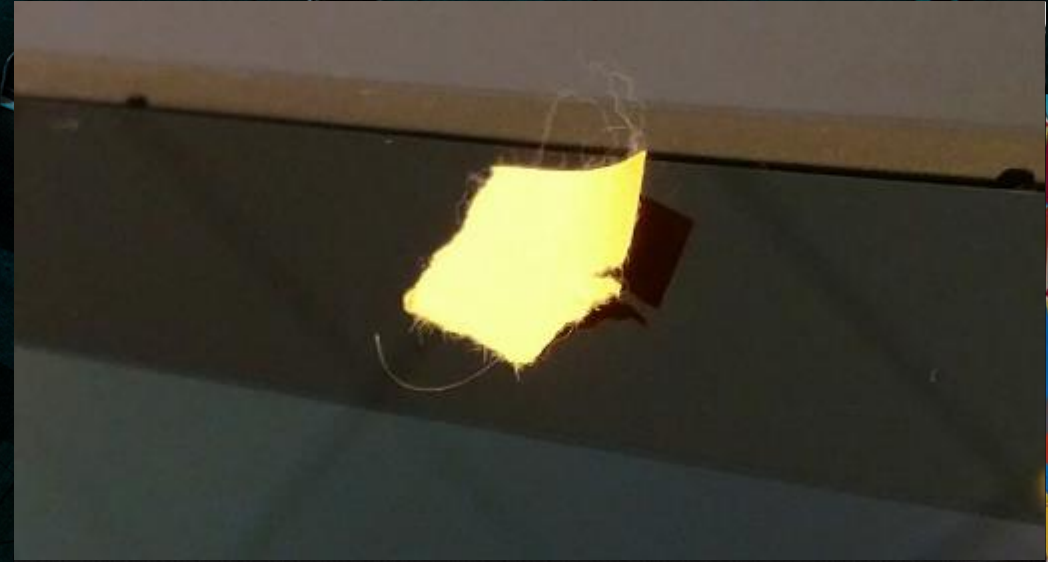
ThinkShutter Camera Privacy

Anti-Spoofing Fingerprint Technology

Extensive support for Match on Chip Fingerprint Reader

Facial Recognition w/ IR Camera

- Windows Hello Logon
- “Glance” Gaze Tracking



Introducing ThinkPad Privacy Guard with Privacy Alert

Protect yourself from shoulder surfing!

- Lenovo's built in ePrivacy filter
- Glance gaze* detection proactive "blind-spot" notification
- Glance presence* detection: locks the system when away



*Presence and Gaze detection require IR camera
Gaze detection offered on Privacy Guard models

BUILT TO ENDURE



Since 2007, all ThinkPad systems are rigorously Mil-Spec tested for 12 methods and 21 procedures, and they endure more than 200 additional quality checks to ensure safety and efficiency. Our products perform reliably, so our customers can focus on work without interruptions.


Professional Monitors



ThinkVision P-Series Monitors Breakdown

[illegible]

New Lenovo Thinkvision P44w

- 
- **Curved 43.4in screen**
 - **3840 x 1200 resolution 16:10**
 - **Integrated KVM**
 - **USB Hub Power & Video**
 - **VESA & DisplayHDR 400 Certified**
 - **450 nits brightness**
 - **Availability: March/April 2019**

ECCOTYPE

THINKREVOLUTIONIST: ECCOTYPE

Creativity shouldn't just be in the hands of the few. So say the innovators of Eccotype, a new online platform that gives novice visual effects artists the ability to create movie-quality CGI without expensive software and years of training.

WHERE A WORD IS WORTH A THOUSAND PICTURES

With only a few keystrokes, writers and artists can use Eccotype to turn their typing into professional-grade animation. Textual input equals visual output. Or in other words, about as close to magic as technology gets. One more thing: It's free.

Tweets by @mdfire

Roundfire Retweeted

 **Barack Obama** ✓
@BarackObama

Replying to @BarackObama

"...For love comes more naturally to



THANK YOU

DAKUJEM DANK BEDANKT MERCI TAKK 谢谢
ありがとう СПАСИБО GRACIAS DZIĘKUJĘ DANKE
OBRIGADO БЛАГОДАРЯ GRAZIE תודה GRACIAS

