

COMMERCIAL SYSTEMS

TRANSITIONS

CUSTOMER PATHS TO THE NEW HYBRID WORK EXPERIENCES FEB 2023







A BETTER WAY TO BE SEEN, BE HEARD, AND TO SHARE IDEAS

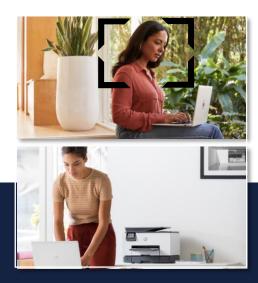
NOW ON DESKTOP PCS



Look and sound your best in all spaces with

- Upgraded 5MP camera
- Integrated Backlight and Lowlight reduction^{1,5} adjustment software^{2,5}
- Beautification filter

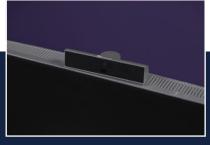
- Bi-directional Ai-based Noise
- Al-based HP Clear Voice
- MyHP app⁴



Move naturally while I communicate with

- HP Auto Frame^{1,5,6}
- HP Dynamic Voice Leveling^{1,5,6}





Enhanced experiences

• 16MP Binning Camera⁸





ALL YOU NEED FOR HYBRID WORKS

BETTER COLLABORATION EXPERIENCES

Not everyone has optimal lighting or control over interruptions







Dynamic Voice

Virtual meetings have exploded with

hybrid work



Collaborate in any lighting situation and present a clear image

EliteOne (800) and ProOne (400)

Backlight Adjustment^{2,5} Lowlight Adjustment^{2,5}

Look and sound clear and focus without worrying about distracting others (or being distracted)

EliteOne 800 Series

16MP Binning⁸ 180 Degree Swivel Webcam

EliteOne (800) and ProOne (400)

Al-based noise reduction 2.0^{1,5}

HP Auto Frame





Leveling

Move around naturally while you collaborate and stay engaged

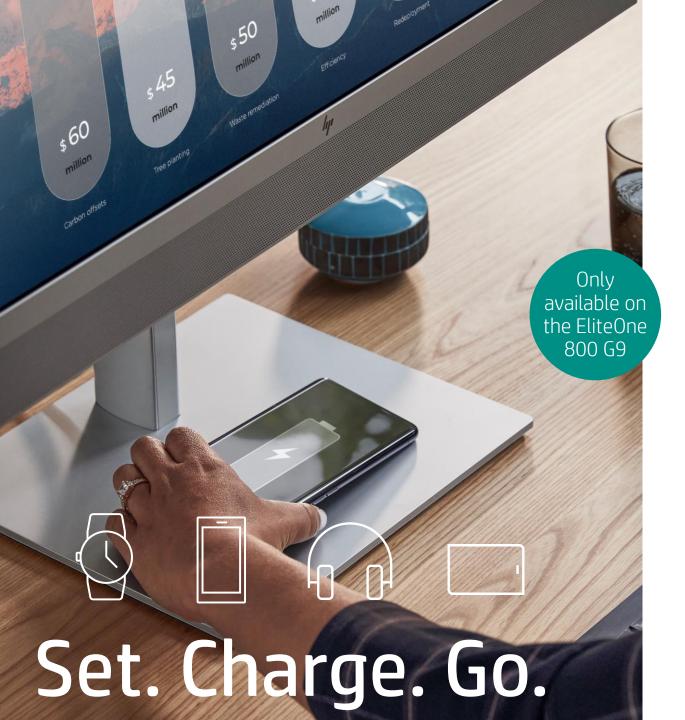
EliteOne (800) and ProOne (400)

HP Dynamic Audio⁷ HP Sound Calibration 2.013 HP Auto Frame^{1,5}

EliteOne 800 Series

HP Dynamic Voice Leveling^{1,5,6}





STAY CHARGED WITH THE CHARGER YOU CAN'T LOSE

ALWAYS CHARGED = ALWAYS READY

No need to search for your charging cable

CLUTTER-FREE DESK = CLUTTER-FREE MIND

You not only save space on your desk you can also eliminate the need for having your charging cables on your desk

CABLE FREE = CLUTTER FREE

With built-in cable management and an optional wireless charging Qi stand ^{9,10,27}







COMMERCIAL ALL-IN-ONE DESKTOP PC KEY INNOVATIONS

		The state of the s				
		EliteOne 840 G9 23.8"	EliteOne 870 G9 27"	ProOne 440 G9 23.8"		
	Camera Resolution (5MP) – (Optional IR)	✓	✓	~		
	Camera Resolution (16MP) - (includes IR) ⁸	~	~	No		
	Optional Color Light Sensor	✓	~	~		
₹	Optional Time of Flight Sensor (enables Auto Wake and Lock)	✓	✓	✓		
HARDWAR	Camera Interface	Swivel (USB)	Swivel (USB)	Pull-Up (USB)		
≯	Privacy Shutter	✓	✓	✓		
٩RI	Run Quiet Design	✓	✓	✓		
主	Extended Range Wireless LAN ¹⁴	✓	✓	✓		
	HP Eye Ease ¹⁵	✓	✓	✓		
	Wireless Charging Qi	✓	✓	No		
	Monitor Mode ³⁰	✓	✓	✓		
	HP AI Noise Reduction 2.0 (HP Presence Enhancement) 1,5	~	✓	~		
	Backlight Adjustment (HP Presence Enhancement) 1,5	✓	✓	✓		
	Lowlight Adjustment (HP Presence Enhancement) 1,5	✓	✓	✓		
RE	Auto Frame (HP Presence Enhancement) 1.5	✓	✓	✓		
SOFTWAR	Dynamic Voice Leveling ^{1,5,6}	✓	✓	No		
H	myHP Video Controls GUI	✓	✓	✓		
20	HP Sound Calibration 2.0 ¹³	✓	✓	✓		
	HP Immersive Audio	✓	✓	✓		
	Modern Standby	✓	✓	✓		
	HP QuickDrop ¹⁶	✓	✓	✓		
4				•		



HP COMMERCIAL DESKTOP

PORTFOLIO OVERVIEW













(intel) Pro 200 Series G9 Desktops	(intel) Pro 400 Series G9 Desktops	AMD Pro 405 Series G8 Desktops	(intel) Elite 600 Series G9 Desktops	(intel) Elite 800 Series G9 Desktops	AMD⊿ Elite 805 Series
1 10 200 Jenes do Desktops	T TO TOO SETTES DESKLOPS	TTO JETTES GO DESKLOPS	Litte 000 Jenes do Desktops	Elite 000 Jenes do Desktops	G8 Desktops
Best value commercial desktop for security, reliability and manageability	Everyday productivity and expandability for your growing business	Everyday productivity and expandability for your growing business	Best value Intel performance and configurability	Our most innovative designs and powerful experiences	Powerhouse performance and enterprise-grade quality and reliability
Mini, Small Form Factor (SFF), Tower, All-in-One	Mini, Small Form Factor (SFF), Tower, All-in-One	Mini, Small Form Factor (SFF)	Mini, Small Form Factor (SFF), Tower	Mini, Small Form Factor (SFF), Tower, All-in-One	Mini, Small Form Factor (SFF)
 Good Intel® performance and configurability Security, reliability, manageability 	 Good Intel® performance and configurability Security, reliability, manageability 	 Good AMD® performance and configurability Security, reliability, manageability 	 Good Intel® performance and configurability Security, reliability, manageability 	 Superb Intel® performance Most configurable VR graphics¹⁷ Security, reliability, manageability 	 Superb AMD® performance Highly configurable VR graphics¹⁷ Security, reliability, manageability

MARKET SPECTRUM





WORK FROM ANYWHERE WITH INTEL®

HP and Intel® equipping businesses of all sizes with the hardware-based computing platform needed to succeed in a rapidly changing digital world.



Architected for A Better End User Experience

Not all compute jobs have same performance expectation. The new core architecture with Intel® Thread Director prioritizes and manages distribution of workloads, optimizing performance per watt. With performance-cores for heavy applications and efficient-cores for multitasking, users are more productive based on how PCs are actually used.

(LEARN MORE)

Select HP desktop products have intel technology for:

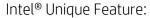
- Enhanced chipset
- 10nm architecture
- DDR5 support



• Additional native graphic ports

Next gen Wi-Fi:

Wi-Fi 6E³



- vPro® Enterprise and vPro® Essential¹²
- Intel® Dynamic Tuning Technology
- Intel® Thread Director

	800 TWR/SFF	600/400 TWR/SFF	200 TWR/SFF	800 AiO	400 AiO	200 Ai0	800/600 DM	400 DM	260 DM
65W DTT	√								
65W	√	√	√	√	√		√		
35W					√		√	√	
15W (U)						√			√

S-Series (35W/65W) powers up to 16 cores and supports Intel Dynamic Funing Technology (DTT) on 65W TWR form factor to allow for automatic an dynamic allocation of power between an Intel processor and an Intel Discret Graphics Card to optimize performance and improve battery life

U-Series (15W) powers up to 10 cores in th sleek, space-saving 200 series Mini and All in-One form factors that enable maximun productivity with a minimal footprint





ADL VPRO12 OVERVIEW

Growing SMB accounts and modern endpoints bring expanding opportunities to support customer modern manageability with vPro® Essentials solution, optimized for remote workers – now available on 400s/600s DT ADL platforms



Customer Segments	CML/RKL	ADL
Managed Enterprise Accounts	vPro® Enterprise	vPro® Enterprise
Un-managed SMB Accounts Cloud-optimized modern endpoints		vPro® Essentials
Generic Business Customers	Non-vPro®	Non-vPro®

Platforms	800s	600s	400s
vPro® Enterprise*	Default	Option	Option
vPro® Essentials*	-	Option	Option**
NON-vPro®	-	Default	Default

^{*}For vPro Enterprise/vPro essential: Garfield Peak 2 (Intel WLAN card) must be selected if WLAN is configured

^{**}vPro Essentials is available in select markets for 400 series

vPRO® ENTERPRISE VS. vPRO® ESSENTIALS

	MANAGEABILITY	SECURITY	STABILITY
vPro® ENTERPRISE	Intel® Active Management Technology (AMT) ²⁶ Provides full remote management and control capabilities • Remote Configuration • Out-of-band management • Full remote erase and recovery • Full remote KVM (keyboard, video, mouse)	 Intel® Hardware Shield HP Sure Start²² Provides Enhanced Security Intel® Hardware shield silicon components are leveraged to offer and enhance HP Sure Start Runtime Intrusion Detection HP Sure Start builds on Intel's security tools with additional capabilities 	Intel® Stable IT Platform Program (SIPP) No hardware changes for at least 15 months or until the next generational release
vPro® ESSENTIALS* ¹²	Intel® Standard Manageability Enables remote configuration and the ability to remotely access and manage devices that are crashed or powered down Remote configuration Out-of-band management	 Intel® Hardware Shield HP Sure Start Provides Enhanced Security Intel® Hardware shield silicon components are leveraged to offer and enhance HP Sure Start Runtime Intrusion Detection HP Sure Start builds on Intel's security tools with additional capabilities With HP Sure Start customers can get the same level of security protection with vPro® Enterprise or Essentials¹² 	SIPP not available



WHY TRANSITION TO WINDOWS 11

THE BEST HYBRID EXPERIENCES ARE ON A NEW PC

- NEW PC HARDWARE BEST SHOWCASES THE BENEFITS OF WIN11
 - More new PCs have touch and pen options to use with the new UI
 - Docking is better on a new PC (USB4)
 - New PCs have higher resolution panels
- NEW PCS HAVE THE TECHNOLOGY NEEDED FOR SUCCESSFUL HYBRID WORK
 - HP Presence¹: Users value better collaboration features such as 5MP camera, enhanced mics
 - Better connectivity with Wi-Fi 6E³
 - Best performance: with latest CPUs with DDR5 on premium platforms





- 3
- WIN 11 + ADL CAMPAIGN SHOULD BE FOCUSED ON DRIVING HW REFRESH
- Best end user experiences
- Best ITDM experiences
- Best security



NEXT-GEN MEMORY THAT FUELS SPEED & EFFICIENCY

OPPORTUNITY

Leverage DDR5 memory where performance /
 Energy savings is important based on use cases
 & pricing flexibility

DDR5 OFFERS:

- Lower power consumption
- Faster performance
- Reliability and resiliency improvement



NEXT-GEN GRAPHICS

THAT EVOLVES PC EXPERIENCE

OPPORTUNITY

 Offer RTX graphics where performance matters based on use cases & pricing flexibility

RTX GRAPHICS OFFERS:

- Studio level creation experience
- Next-gen performance based on Deep Learning and Ray tracing
- NVIDIA Broadcast, Al-powered collaboration tool

2022 platforms offer a broad range of flexible GFX configurations:

- High-end Graphics for creation & VR¹⁷
- Entry & Mid-tier Graphics for light creation & display extension
- Professional grade GFX for max reliability



2022 PORTFOLIO STEP UP PATH

HP 200 G9 Series



Reliable entry-level desktops for essential computing

- Latest processor technology
- Essential business features

PRO 400 G9 Series



- Configurable desktops and all-in-ones for your growing business
- Security and manageability for growing business (+HP Sure Start²²)
- Manageability through Intel vPro®12 options
- Higher level of MIL-STD durability²³

ELITE 600 G9 Series



- Essential enterprise features; ready for versatile workspaces
- Enterprise Essentials
- Better expandability
- Global series

ELITE 800 G9 Series



- Innovative designs and powerful experiences for hybrid work
- Enhanced collaboration features (AiO)
- Run Quiet Design 2.0
- Modern Stand-by
- HP Auto Lock and Awake²⁴ (AiO)
- Most compute power (TWR)

EXPERIENCE UPGRADES

HARDWARE UPGRADES 23.8" / 21.5" 23.8" 27" / 23.8" 5MP Camera 5MP Camera HP Presence¹ Intel®18 / AMD®25 5MP, 16MP Camera⁸ Optional GfX Optional GfX 1x PCle Gen4 1x PCle Gen4 2x PCle Gen4 2x PCle Gen4 Mini 65W/35W Processor 15W Processor 35W Processor 65W/35W Processor Optional nVidia RTX 3050 Ti 3 Bay / 3 Slot 3 Bay / 4 Slot 4 Bay / 4 Slot 4 Bay / 4 Slot Tower 2x DDR4 2x DDR4 4x DDR5 4x DDR5 Intel® / AMD® Up to 400W PSU Up to 550W PSU Up to 550W PSU 2 Bay / 2 Slot 2 Bay / 2 Slot 4 Bay / 4 Slot 4 Bay / 4 Slot SFF 2x DDR4 2x DDR4 2x DDR5 2x DDR5 Optional vPro® / vPro® Essentials12 Optional vPro® / vPro® Essentials12 vPro® Standard12 All FF

P-Series



CY22Q3	CY22Q4	CY23Q1	CY23Q2		CY23Q3	CY230	14		CY24Q1		CY24Q2	5 6
FY22 Q4	FY23 Q1	FY23 Q	2	FY23 Q3	FY23Q4		FY24 Q1		F	/24 Q2		FY24Q3
Aug Sep Oct	Nov Dec	Jan Feb Mar	Apr May	Jun Jul	Aug Sep	Oct Nov	Dec	Jan	Feb	Mar A _l	or May	Jun
IPP34hcG4 34"Curve6	55WUSB-CPD											Ø -
	HP P32u G	95 31.5 QHD 65W USB-CF	PD									
P P27q G4 27" QHD		×										
P P27h G4 27"												
	HP P27h G	5 27, FHD										
IP P27v G427"		Ø										
	HP P27 G5 27, F	HD				!						
P P24q G4 23.8" QHD		×										
P P24h G4 23.8"	h G5 23.8, FHD											
HP P24 G423.8"	110020.0, F110			7							_	
	G5 23.8, FHD											7
IP P24v G4 23.8"	Ø											
HP P24	v G5 23.8, FHD											
IP P22h G4 21.5"												
HP P22	h G5 21.5, FHD											7
IP P22 G4 21.5"	05 04 5 5UD											
	G5 21.5, FHD										_	
IP P22v G4 21.5"	5 21.45, FHD											
HP P22va G4 21.45" FHD												
ID D004 10 5" FUD												
HP P204v 19.5" FHD												



2022 PORTFOLIO

YOUR BEST HYBRID WORK IS ON AN HP NOTEBOOK











	16:10 DISPLAY								
ProBook (intel) 400 & 405 Series G9	EliteBook (inter) 600 & 605 Series G9	EliteBook (intel) 800 & 805 Series G9	EliteBook (intel) 1000 Series G9	EliteBook (intel) Dragonfly					
Modern Design for growing companies Performance for DT Transitions	Ennancon i dilanora		Redefining the lightweight corporate standard Enhanced Collaboration Contextual experiences	Form factor innovation Industry-leading weight thresholds Life-like collaboration, everywhere					
Clamshell, x360	Clamshell	Clamshell, x360	Clamshell, x360	Clamshell					
Intel [®] • P28 Higher TDP	 ALL Increased Security (HP Wolf Security for Business⁴⁰) Intel® P28 Higher TDP (14" & 15") AMD® New AMD Lineup with Full AMD DASH/KVM Support -14" & 15" 	ALL • 16:10 • 16" (replacing 15") Intel® • P28 Higher TDP (14" & 16")	ALL: 16:10Starting at 2.5 lbsContextual experiences	• 13.5", 3:2, Magnesium Clamshell (New 1kg ⁷⁰ platform)					
Home / Office Navigator Home / Office Navigator		Home / Office Navigator	Mobile Trailblazer	Mobile Trailblazer					





DURABLE CONSTRUCTION

BUILT TO LAST



120k HOURS

MIL-STD 810H TESTS⁴⁹ HP TOTAL TEST PROCESS³⁵

The challenge of building thin, light, and powerful is to remember where this device will be used – in a mobile environment – a *moving* environment.

Quality cannot be sacrificed.



2022 COMMERCIAL NOTEBOOKS

KEY CHANGES & INNOVATIONS

	PROCESSOR	CHASSIS	PANELS	MEMORY	WEBCAM
Dragonfly	Intel ADL U15	New	3:2	LPDDR5	5MP with wide field of view
1000 Series	Intel ADL U15	New	16:10	DDR5	5MP with wide field of view
800 Series	Intel ADL U15/P28*	New	16:10	DDR5	5MP with wide field of view
805 Series	AMD REMBRANDT 15W/28W	New	16:10	DDR5	5MP with wide field of view
600 Series	Intel ADL U15/P28	Cover A Change. (Elite branding)	Same (Sure View no longer offered in 15").	Same (DDR4)	720p HD with temporal noise reduction
605 Series	AMD BARCELO	New platform based on 600 chassis	New platform with same options as 600	DDR4	720p HD with temporal noise reduction
400 Series	ADL U15/P28*	Same	Same (Sure View no longer offered in 15")	Same (DDR4)	720p HD with temporal noise reduction
405 Series	AMD BARCELO	Same	Same (Sure View no longer offered in 15")	Same (DDR4)	720p HD with temporal noise reduction
200 Series	ADL U15/P28	Same	New 400 and 300 nit options	Same (DDR4) Up to 32GB	720p HD with temporal noise reduction
205 Series	AMD BARCELO	Same	New 400 and 300 nit options	Same (DDR4) Up to 32GB	720p HD with temporal noise reduction



^{* =} ADL P28 not available on 13"

PANEL AND ASPECT RATIO EVOLUTION

Productivity boost with bigger displays, trackpads & keyboards

Lead in premium with this panel shift to provide improved productivity



16:9

ALL G8 PLATFORMS + PROBOOK 400/ELITEBOOK 600 G9

The market is shifting to a modern design with a more efficient aspect ratio with productivity benefits

16:10

ELITE 1000 & 800 G9 SERIES

More vertical real estate
Display closer to eye level
Larger clickpad and keyboard
Eye Ease^{T7} low blue light option (400 nit and above)

3:2

ELITE DRAGONFLY G3

Best for highly mobile users
View more, scroll less
Higher position of integrated webcam
Larger clickpad, keyboard and battery
Eye Ease^{T7} low blue light on all panels^{T9}



2022 COMMERCIAL NOTEBOOKS

KEY VIDEO INNOVATIONS

		Elite Dragonfly G3	EliteBook 1000 G9	EliteBook 800 G9	ProBook 400 EliteBook 600 G9
RE	Camera Resolution	✓ (5MP)	✓ (5MP)	✓ (5MP)	HD
HARDWARE	Camera Interface	✓ (MIPI)	USB	USB	USB
HAR	Temporal Noise Reduction (TNR)				~
	Super Resolution				✓
	Backlight Adjustment	✓	✓	✓	✓
Ε	Lowlight Adjustment	✓	✓	✓	~
/ARE	Auto Frame	✓	✓	✓	
SOFTWARE ^{T1}	Eye Contact	✓			
)S	Appearance Filter	✓			
	Background Adjustment	✓			
	myHP Video Controls GUI	✓	✓	✓	✓

BRING AUTHENTICITY TO EVERY MEETING

With a 5MP camera⁴⁴ that keeps you looking sharp

○ .92MP (HD)

Lower **resolution**

More **blurry**

Less **crisp**



5MP

Higher resolution

Less **blurry**

More **crisp**

5x more pixels than an HD camera⁵⁴



NO MATTER WHERE OR WHEN YOU'RE WORKING

BESEEN IN YOUR BESTLIGHT



AVOID OVEREXPOSURE

Backlight WDR⁴ uses quality dual image sensors, working together to balance the background and foreground lighting and contrast.



BRIGHTEN DARK ROOMS

Low light Improvement⁴ detects if the room is too dark and automatically brightens the image to give you vibrant image quality

Your camera sees what's going on in the room and automatically adjusts for optimal video.

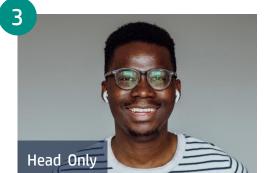


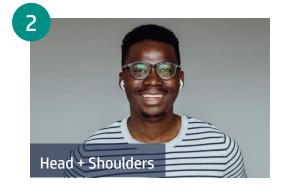
BREAK FREE FROM YOUR DESK

With HP Auto Frame³⁸

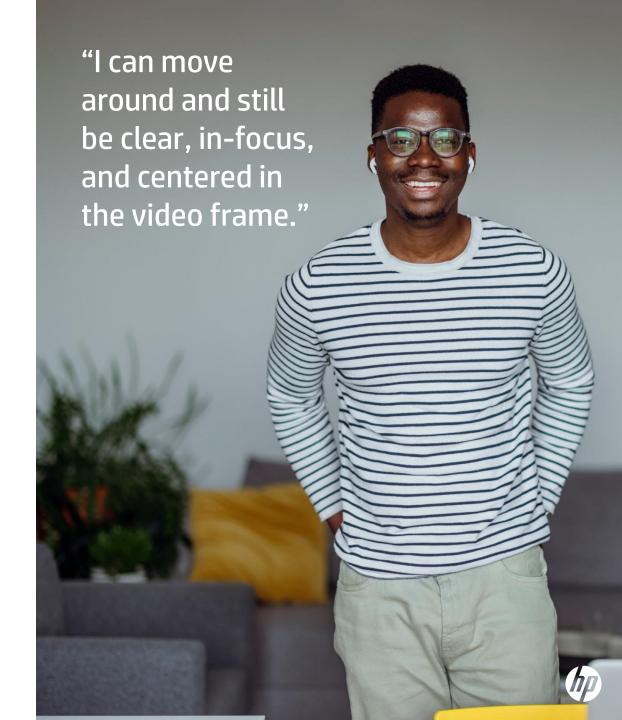
You choose what view you share:







Your meeting moves with you, keeping you front and center.



2022 COMMERCIAL NOTEBOOKS

KEY AUDIO INNOVATIONS

		Elite Dragonfly G3	EliteBook 1000 G9	EliteBook 800 G9	ProBook 400 EliteBook 600 G9
	Sound Pressure Level	≥78 db	≥74 db	≥74 db	≥70 db
	Bass Rolloff (lower is better)	≤ 200Hz	≤ 350Hz	≤ 350Hz	≤ 600Hz
ARE	Microphones	✓ (Top Edge, 2)	Front (2)	Front (2)	Front (2)
HARDWARE	Speakers	4	✓ (2)	✓ (2)	✓ (2)
H H	Discrete Amplifiers	Yes (4)	✓ (2)	✓ (2)	(integrated AMP only)
	Frequency Optimized Speakers	✓			
	Directional Firing Speakers	(Front/Down)	✓ Side/Down	✓ Side/Down	Тор
	HP Dynamic Voice Leveling ^{T1}	✓	✓	✓	
NARE	HP AI Noise Reduction 2.0 ^{T1} with HP Clear Voice	✓	✓	✓	~
SOFTWARE	HP Dynamic Audio ^{T10}	✓	~	✓	~
	HP Sound Calibration ^{T11}	~	✓	~	~





HP Dynamic Voice Leveling⁴

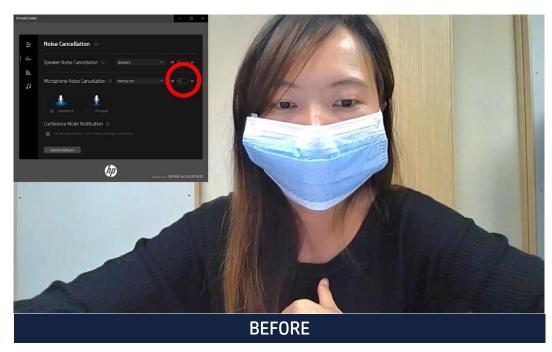
Walk and talk. Stand and stretch. Your PC will still hear your voice.

HP Dynamic Voice Leveling⁷ automatically enhances microphone gain to optimize voice clarity within 3 meters of the PC.



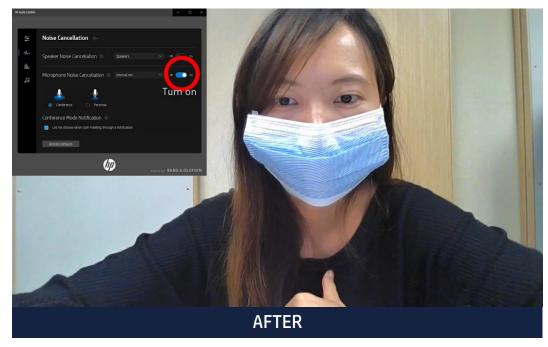
BE HEARD LOUD AND CLEAR

With HP Al-based noise reduction 2.04



People say I sound muffled on conference calls when I'm wearing a mask.





People can **hear me clearly** even when I'm wearing a mask.

FILTERS INBOUND & OUTBOUND NOISE

Al-based advanced noise reduction filters my background noise and yours for an enhanced conference call experience.





EXPERIENCE IMMERSIVE, PREMIUM AUDIO



SOUND TAILORED TO YOU

Tune your headphone audio for an immersive sound experience tailored specifically to your preferences with HP Sound Calibration.³⁷



HEAR WHAT'S IMPORTANT

HP Dynamic Audio, a new Al-based audio experience, tunes output to speech, music, and movies all while suppressing background noise.¹³



REMARKABLE SOUND

Audio by Bang & Olufsen, four top-firing speakers, and four discrete amps work together to create an immersive sound that comes through crystal clear whether you're on a conference call or watching a movie.



BETTER, FASTER CONNECTION TO YOUR WORK



ELITEBOOK DRAGONFLY, 1000 & 800 SERIES

- Support for 4x4 antenna for 5G^{T12}
- Higher bandwidth
- Access to a secure network
- Constant availability of a private network



FROM 400 THROUGH 1000 SERIES^{T13}

- Future proof, next-gen technology
- Speedier internet with less congestion 6GHz band
- More devices can share single network without lag



INTELLIGENT BATTERY FOR HYBRID WORK



BATTERY SHIELD^{T14}

Peace of mind with stronger battery pack protection

 Metal plate around battery pack to protect from external damage caused during daily usage, drop, battery service, logistics.

Within the OS User interface

HP POWER MANAGER^{T15}

Easy Battery Management

- My Battery Status
- Battery Charge Manager

Below the OS Battery firmware

BATTERY HEALTH MANAGER 3.0^{T24}

Intelligent battery with AI

- HP Intelligent Charging algorithm prevents battery swelling
- Intelligent Charging Scheduler
- HP Fast Charge Plus^{T16}



NEXT-GEN MEMORY

THAT FUELS SPEED & EFFICIENCY

DDR5 memory offers

- 50% higher bandwidth for a faster and more responsive PC
- Dual channel DIMM architecture for more efficient access and better signal integrity
- On-die Error Correction Code removes burden on the CPU, increasing overall system efficiency
- Lower power consumption for better battery life
 - LPDDR5 has lowest power consumption

DDR5 supported on: EliteBook 800/805/1000 G9

LPDDR5 supported on: Dragonfly G3



2022 platforms offer a broad range of flexible memory configurations:

- Single or Dual channel options (choose upgradeability or maximum performance)
- DDR4 for more competitive pricing
- DDR5 for latest technology and maximum performance
- LPDDR5 for lowest power consumption yet maximum performance



EXPANDED INTEL PROCESSOR OPTIONS

Intel 12th Gen processors feature a new architecture

Two types of cores - Performance Cores for demanding tasks and Efficient Cores for background tasks. **Intel Thread Director** routes workloads to the **best cores for the job**

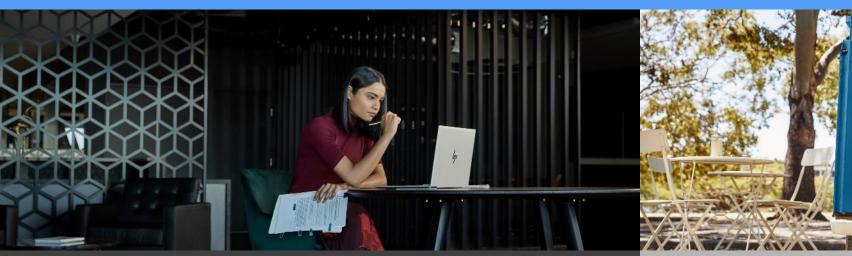
Intel 12th Gen now offers two levels of processors

P28 is better for home office navigators who are constantly multitasking and need *more power* to work with more complex files and data sets. Also provides discrete graphics power without the discrete card in a quieter and cooler device.

U15 – is best suited for thinnest & lightest designs with an emphasis on *mobility & battery life* instead of raw power.



From Year of the Upgrade to Year of the Refresh





2022: Year of the Upgrade

- **Broadest portfolio redesign** for hybrid & investment in premium experiences
- Portfolio simplifications to maximize investment ROI and xleverage
- Protect RFPs by extending specific N-1 offerings (X2, 430)
- Invest in AMD for CEP/FED

2023: Year of the Refresh

- Refresh technology for broader portfolio to stay competitive
- Capitalize on existing product by introducing new experiences & bringing premium experiences into mainstream
- Continual cost optimization and new lower cost options
- Adapt to market challenges with cost-aggressive SKUs

Delivering Experiences to Power Hybrid

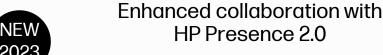
Work

Inclusive Collaboration



be seen and be heard with intelligent conferencing

5MP cameras with HP Auto FrameT1 Updated audio AI • Discrete amps



Premium 88° Wide Field of View • 5MP to mainstream • Multi-camera streams⁸

Seamless Transitions



context & place aware with adaptive connectivity and performance

5G • Wi-Fi 6E • DDR5 • Context Aware^{T8} Sure Recover • HP Auto Lock and Awake^{T3}



More freedom with performance, connectivity & security

5G⁷ & WiFi6E (AMD)¹⁰ • 32 GB LPDDR5 (thin & light) HP Context Aware^{T8}: Lap detection

Personalization



make space for productivity and well being in the "anywhere" office

> 16:10 aspect ratios • HP Eye Ease^{T7} larger keyboard & clickpad



More productivity power to shape your experience

Intelligent Hibernate **OLED** Power Saving & image quality Improved cool & quiet experience



2022

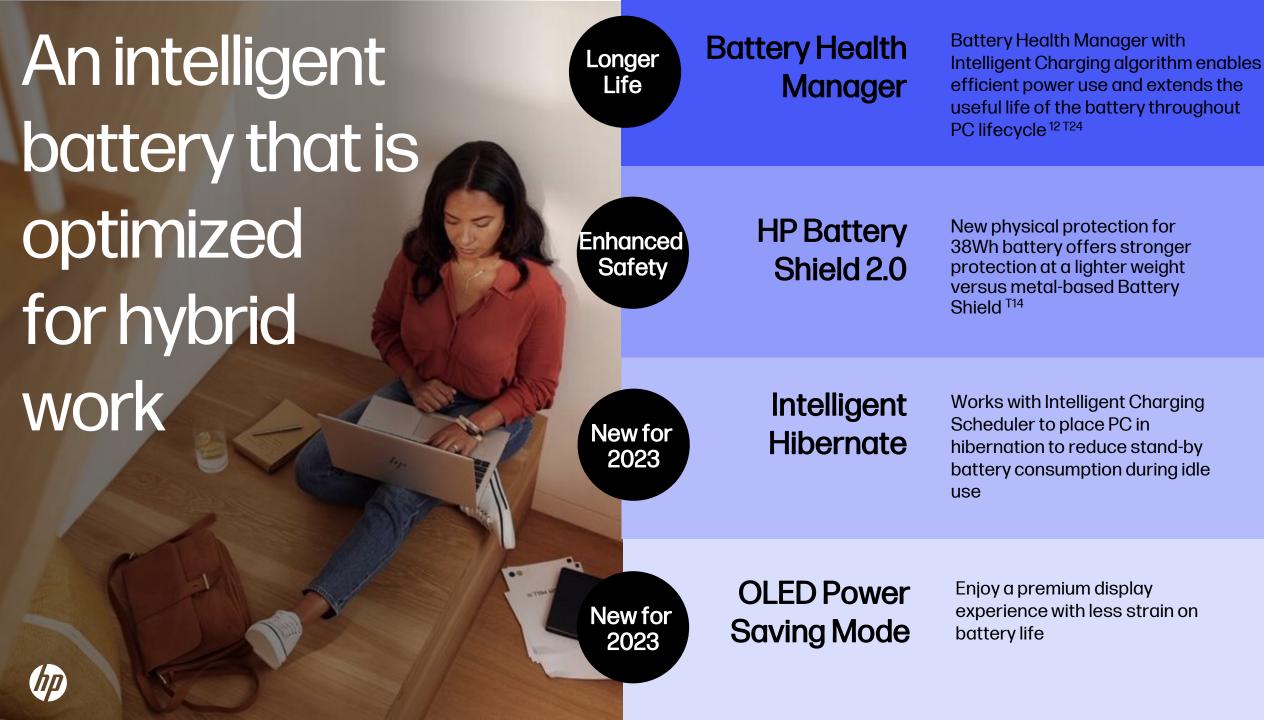


2023 Key Changes & Innovations



	PROCESSOR	CHASSIS	PANELS	MEMORY	WEBCAM
Dragonfly	Intel RPL U15	Same	3:2	LPDDR5	5MP with 88° field of view
1000 Series	Intel RPL U15/P28*	Same	16:10 (super high res, 2560x1600)	DDR5/ LPDDR5 (X360)	5MP with 88° field of view
800 Series	Intel RPL U15/P28*	Same	16:10 (super high res, 2560x1600 & OLED in 860)	DDR5/ LPDDR5(830, X360)	5MP with 88° field of view
805 Series	AMD Phoenix 15W/28W	Same	16:10 (super high res, 2560x1600 & OLED in 865)	DDR5/ LPDDR5(835)	5MP with 88° field of view
600 Series	Intel RPL U15/P28*	2x USBC	Same (16:9) adding Low Blue Light** (Sure View no longer offered in 15")	Same (DDR4)	720 HD, HD + IR, 5MP+ IR* (not available in 630)
605 Series	AMD Barcelo-R	Same	Same (16:9) adding Low Blue Light (Sure View no longer offered in 15")	Same (DDR4)	720 HD, HD + IR, 5MP+ IR*
400 Series	Intel RPL U15/P28	2x USBC	Same (16:9) adding Low Blue Light (Sure View no longer offered)	Same (DDR4)	720 HD, 5MP+ IR*
405 Series	AMD Barcelo-R	Same	Same (16:9) adding Low Blue Light (Sure View no longer offered)	Same (DDR4)	720 HD, 5MP+IR*
200 Series	Intel RPL U15/P28 ADL-N	New ID	Same (16:9) New 400 and 300 nit options	Same (DDR4) Up to 32GB	720p HD with temporal noise reduction
205 Series	AMD Barcelo-R/ Mendocino	New ID	Same (16:9) New 400 and 300 nit options	Same (DDR4) / LPDDR5(Mendocino) Up to 32GB	720p HD with temporal noise reduction

^{*=} ADL P28 NOT available on 13 & x360" ** = NOT available on 630



2023 Key Intelligent Features

	Elite Dragonfly G4	EliteBook 1000 G10	EliteBook 800 G10	EliteBook 600 G10	ProBook 400 G10
Auto Lock & Awake	~	~			
Context Aware: On lap/On table mode	~	~			
Context Aware: In/Out of bag	~	✓			
Auto Brightness (ALS)	~	~	~		
Adaptive Color (ACS)	✓	~	~		
Wake on Touch (tablet mode x360 only)		~	~		✓ (405)
Intelligent Hibernate	✓	✓			
System Control	✓	✓			
Smart Sense	✓	✓ (P28 Intel EPO)	✓ (P28 Intel EPO)		
Intel Connectivity Performance Suite (ICPS) – For select Intel Evo platforms	~	~	~	~	
HP Battery Shield 2.0 (SET)	✓	✓	~		
OLED Power Saving	~				

Latest-gen memory that fuels speed & efficiency

DDR4 for best value

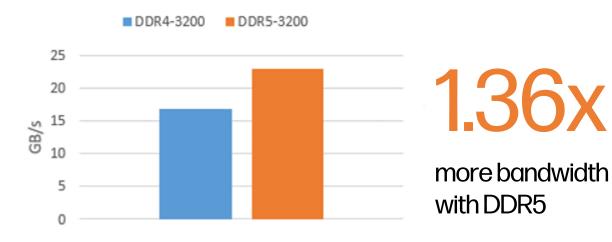
DDR5 for latest technology, lower power consumption for more efficient use of battery power and high performance

LPDDR5 for lowest power consumption for most efficient use of battery power and maximum performance



DDR4 3200 vs DDR5 3200

Effective bandwidth^{T29}



DDR4 3200 vs DDR5 4800

Effective bandwidth¹

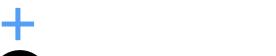


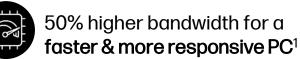
1.87x

more bandwidth with DDR5 4800

Understanding DDR4, DDR5 & LPDDR5









DDR5

Better for **graphics**, **multi-tasking**, high-performance apps





Lower power consumption for **longer battery life**





Overall system efficiency by removing burden on the CPU



Further improvement to battery life, graphics and performance







Small form factors require soldered memory that is not upgradeable



32GB capacity onboard is only available with LPDDR5 in 2023



Premium Memory Offerings













Memory Offerings	Dragonfly Folio G3	Dragonfly (clamshel		1040 (clamshe	ell)	x360 10 ² x360 830		830/835 (clamsh		840/860 (clamshe	
Generation	G3	G3	G4	G9	G10	G9	G10	G9	G10*	G9	G10
8GB LPDDR5	√ ⊗	√ ⊗	√ ⊗				√ ※		√ ⊗		
16GB LPDDR5	√ ⊗	√ ⊗	√ ⊗				√ ⊗		√ ⊗		
32GB LPDDR5	√ ⊗	V	√ ⊗			_	√ ⊗	_	√ ⊗		
8GB DDR5				V	V	√ ⊗		√ ⊗		V	V
16GB DDR5				V	V	√ ⊗		√ ⊗		V	V
32GB DDR5				V	√	_		_		V	√
64GB DDR5				V	V	_		_		V	√
16GB DDR4										√(ADL)	
32GB DDR4 (2x16GB)										√(ADL)	





HP Dock Manageability Features









Features	HP USB-C G5 Essential Dock	HP USB-C G5 Dock	HP USB-C/A G2 Universal Dock	HP Thunderbolt G4 Dock
Firmware Update	Connected ^{T32}	Disconnected ^{T39}	Disconnected ^{T39}	Disconnected ^{T39}
PXE Boot ⁹	V	V	√	√
OOB Wake on LAN	-	V	✓	√
MAC Address Pass-Through	√ T34	V	V	√
еТад	-	V	✓	✓
Disable LAN	-	V	✓	√
Secure FW Update ¹²	-	-	-	V
Event Messaging	-	V	✓	√
LAN/WLAN Switching	V	√	√	√
Wired vPro	-	-	-	√

2023 Portfolio

Step Up Path

Stay connected with

Powerful technology

Essential business features

Latest processor

technology

EliteBook 600/605 G10

REFRESH

Bringing premium to all employees across all hybrid workstyles. Enterprise security and manageability.

vPro Essentials/AMD DASH

Configurability & flexibility.

- Smart card / NFC option
- Thunderbolt[™] (Intel only)

EliteBook 800/805 G10



Gold standard for enterprise, setting the bar with performance, connectivity, collaboration.

- Enhanced collaboration
- Enhanced audio & discrete amps
- 5G connectivity
- · Ambient light & color sensors
- Embedded Sure Recover
- HP Auto Lock and Awake
- HP Context Aware (Intel only)
- QHD+ OLED panel option

EliteBook 1000 G10



Ultra lightweight devices for the freedom to work and truly collaborate from anywhere.

Super light weight

Intelligent Hibernate

Lightest and thinnest

REFRESH

- Quad Speakers
 - · Top Edge Mics
 - · OLED panel option and power saving mode

Dragonfly G4

Best collaboration and productivity

experiences in a lightweight, beautifully

designed, secure device.

ProBook 400/405 G10



Affordable devices designed with commercial grade feature; durable design

- Aluminum A/C chassis
 - HP Sure Run & Sure Recover
 - Higher level of MIL-STD durability
 - · Two multifunction USB-C (Intel only)

Management w/ Intel vPro &

- Up to 64GB DDR4 / 2TB SSD
- Global series

EXPERIENCE UPGRADES

HARDWARE UPGRADES 14"/15" Plastic chassis. 14"/15" Aluminum A/C covers 13/14/15" Aluminum A/C/D covers 14" Magnesium chassis 13.5" Magnesium chassis 13/14/16" All aluminum chassis Opt metal A cover, Clamshell Clamshell & x360 Clamshell Clamshell & x360 Clamshell & x360 Clamshell Intel and AMD 15W /28W (Intel only) Intel and AMD -15W 28W (intel only) Intel and AMD 15W 28W(Intel only) Intel and AMD 15W 28W Intel 15W 28W Intel 15W 16:9 Display 16:9 Display 16:9 Display 16:10 Display 16:10 Display 3:2 Display **HD TNR Camera** HD TNR or 5MP Camera HD TNR or 5MP Camera 5MP Camera 88° FOV 5MP Camera 88° FOV 5MP MIPI Camera 88° FOV **DDR4 Memory** DDR5/LPDDR5 Memory DDR5/LPDDR5 Memory LPDDR5 Memory DDR4 Memory DDR4 Memory Wi-Fi 6 WLAN Wi-Fi 6E WLAN / 4G WWAN Wi-Fi 6E WLAN / 4G WWAN Wi-Fi 6E WLAN / 5G WWAN Wi-Fi 6E WLAN / 5G WWAN Wi-Fi 6E WLAN / 5G WWAN



SECURITY BY DEFAULT

WINDOWS 11 DELIVERS POWERFUL PROTECTION FROM CHIP TO CLOUD

In Windows 11, hardware and software security work together to help keep users, data, and devices protected.

Protects against threats by separating hardware from software with hardware root-of-trust, for powerful security from the start

Protect the OS against unauthorized access to critical data

Delivers robust application security and prevents access to unverified code

Protects user identities with passwordless security

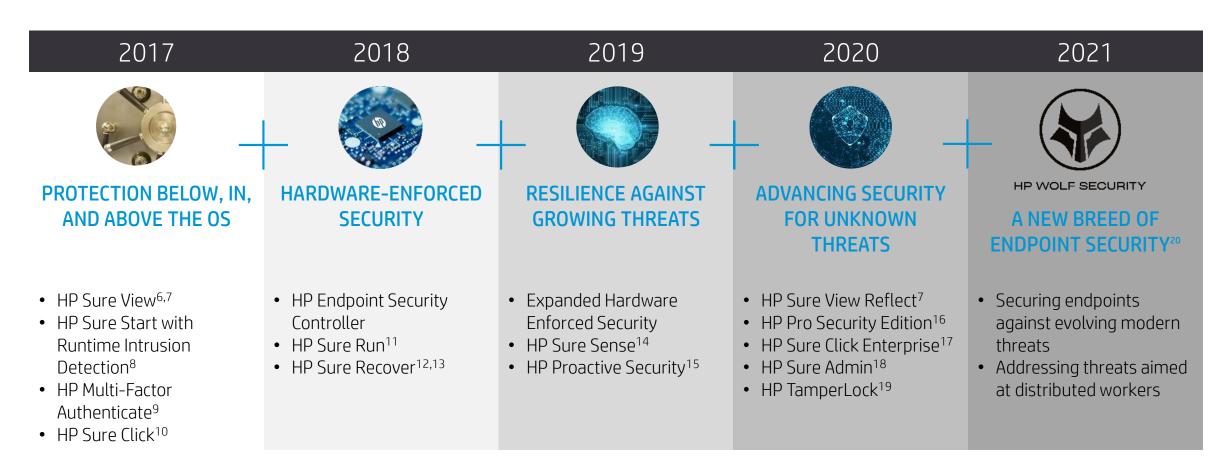
Extends security to the cloud to help protect devices, data, apps, and identities from anywhere





HOW HP BUILDS THE

WORLD'S MOST SECURE AND MANAGEABLE PCs⁵





HP ENDPOINT SECURITY CONTROLLER

UNIQUE HARDWARE ENABLES RESILIENT DEVICES

Protection starts at the lowest level of the PC

- ✓ Hardware-enforced technology only on HP PCs
- ESC always running, even when the system is powered off
- Hardware Root of Trust: protection, detection & recovery
- Physically isolated

Protection continues during runtime

- Ongoing monitoring for health of HP's security system
- HP Wolf Security cryptographic functions secured by hardware





HP WOLF SECURITY FOR BUSINESS

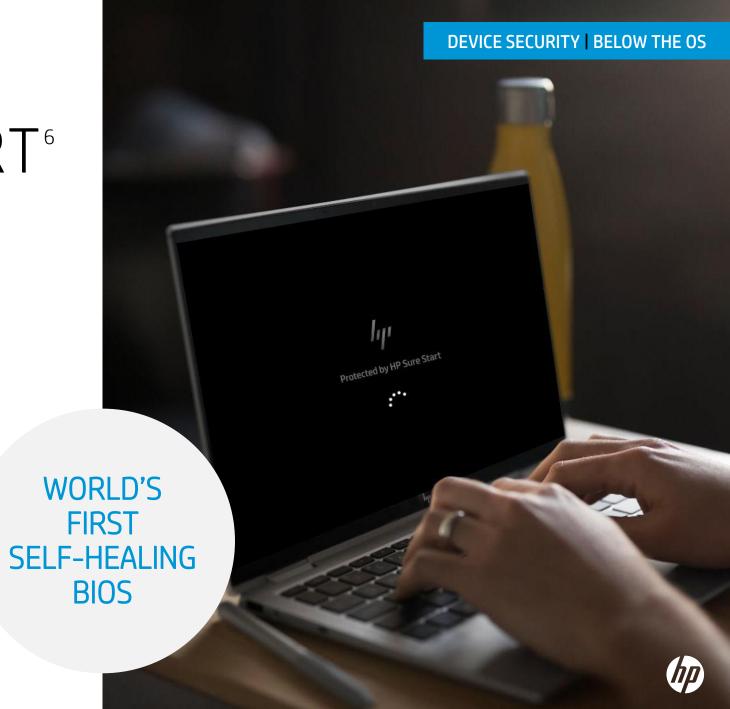
HP WOLF	= SECURITY				
		DEVICE	IDENTITY/PRIVACY	DATA	
NC	ABOVE THE OS		HP SURE VIEW ^{6,7} Built-in Privacy Screen HP PRIVACY CAMERA / HP SURE SHUTTER ^{25,26} Built-in Webcam Privacy Shutter		
PROTECTION	IN THE OS	MICROSOFT SECURED-CORE PC ²³ Best In Class OS Security	HP PRESENCE AWARE Auto Login/Logoff	HP SURE CLICK ¹⁰ Hardware-enforce secure browsing/viewing solution HP SURE SENSE ¹⁴ Protect from never-before-seen malware	
HARDWARE-ENFORCED PR	BELOW THE OS	HP BIOSPHERE ²⁴ Comprehensive BIOS Management HP SURE START ⁸ Self-Healing Endpoint Security Controller Protection HP SURE RUN ¹¹ Protect Applications with Persistence & Kill Prevention HP SURE RECOVER ¹³ Embedded Image Recovery HP SURE A Cryptographically Secur HP TAMPERLOCK ¹⁹ Tamper Protection		HP SECURE ERASE ²⁷ Permanent Data Removal on HDD/SSD CERTIFIED SELF-ENCRYPTING DRIVES HW Data Encryption	
H₽		HF Local Secu	P CLIENT SECURITY MANAGER ²⁸ rity Management (HP Sure Run & HP Sure Recover)		
		HP END	POINT SECURITY CONTROLLER		





PROTECT WHERE ANTIVIRUS DOESN'T

Protecting your critical firmware with HP Sure Start creates a **HARDENED ROOT OF TRUST.**



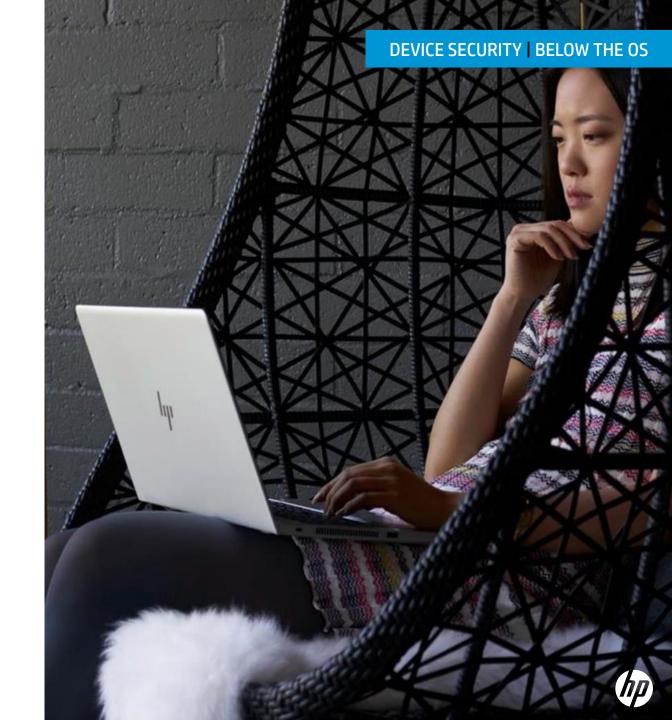


PROTECTS AGAINST ATTACKERS TURNING OFF CRITICAL CUSTOM APPS



HP Sure Run¹¹ leverages the HP Endpoint Security Controller to:

- MONITOR key processes.
- ALERT of any changes.
- Dynamic **PERSISTENCE**.





REMOVE THE RISK OF A TIME-CONSUMING BUSINESS DISRUPTION FROM A DESTRUCTIVE MALWARE ATTACK



SECURE REIMAGING

For trusted systems



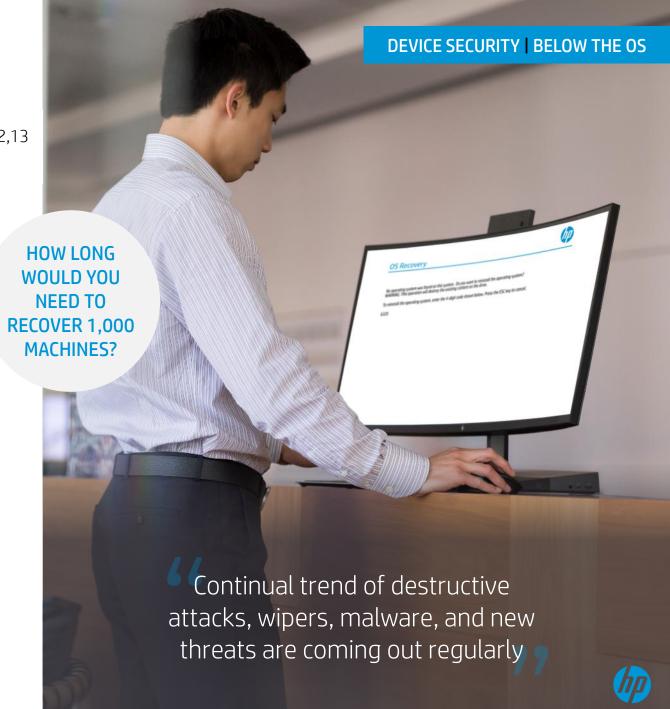
RECOVER QUICKLY

In minutes instead of hours



SUPPORT BUSINESS CONTINUITY

with user-enabled reimaging





HP TAMPERLOCK¹⁹

PEACE-OF-MIND FROM PHYSICAL INTRUSION THREATS



SENSORS DETECTION

For case intrusion, and configurable rich policy controls



PHYSICAL ATTACK PROTECTIONS

Against DMA attacks, flash replacement attacks, side channel attacks, TPM probing attacks

+ HP Endpoint Controller storage protection





PROTECTION THAT DOESN'T REQUIRE DETECTION



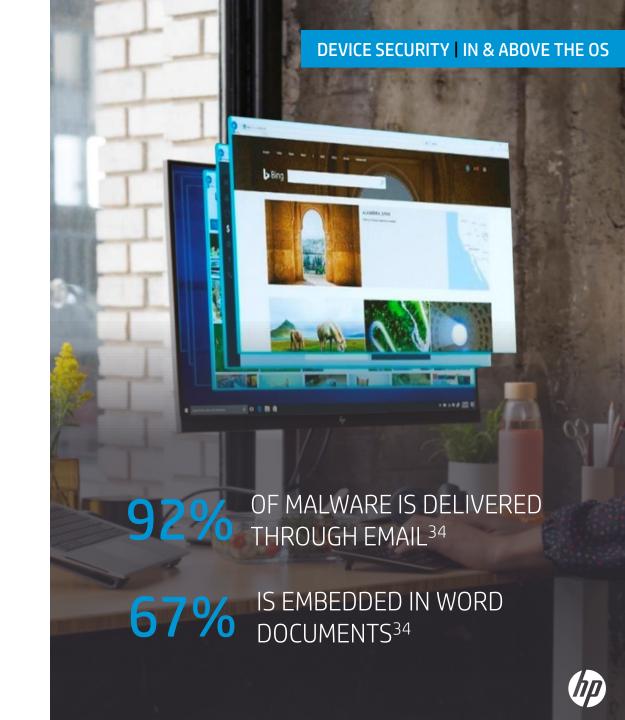
SECURE BROWSING

• Isolates each tab in a secure virtual container.



FILE PROTECTION

- Protection for Email Attachments, Word and PDF files open in a secure virtual container.
- Word and PDF file download protection using IE, Edge, Chrome, and Firefox.





HP SURE VIEW REFLECT⁷

- Copper tinted reflective privacy that's 2x more effective than the competition¹
- The world's most advanced privacy in its class⁴²
- Functions well in both bright & dark environments

HP SURE VIEW GEN36

- Improved battery life
- Better visuals with brighter display and higher contrast ratio

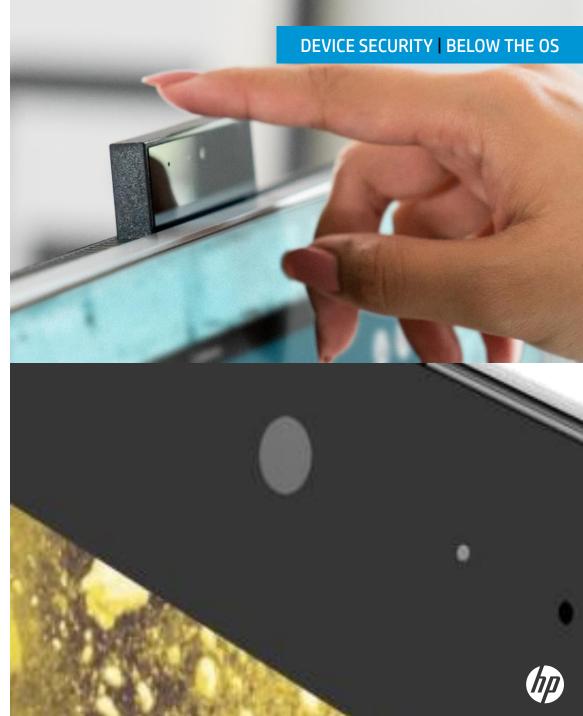




MANUAL SHUTTER THAT PROTECTS FROM SURVEILLANCE AND SITS JUST BEHIND THE COVER GLASS OF YOUR PC.

Simply swipe the glass to enable the physical shutter, which blocks both the front- and back-facing cameras simultaneously.

- Easy-to-use physical webcam shutter
- Seamlessly integrated in the touch screen or as a pop-up webcam
- Provides peace-of-mind against malicious webcam surveillance





HP SURE SHUTTER²⁶

SIMPLY PRESS A KEY TO ACTIVATE AN ELECTRONIC SHUTTER OVER YOUR PC'S WEBCAM

Avoid any accidental video conferences and stay hidden from malicious attacks.



HP Sure Shutter uses the HP Endpoint Security Controller to control the camera shutter, isolating the experience from OS attacks.





PEACE-OF-MIND IN KEEPING YOUR DATA SAFE AND INSTANTLY RESUMING WORK

AUTOMATICALLY

LOCKS WHEN YOU LEAVE

Walk-away lock allows the system to dim and/or lock when you are no longer present in front of your system

WAKES WHEN YOU RETURN

Wake-on presence detects your presence and awakes system

