HP Z Core Displays 2021

World's first color accurate monitor series with always-on low-blue-light*.

DESIGN

Thoughtful Innovation.
Premium elegance.

PERFORMANCE

Designed to delight.
Built to perform.

SUSTAINABILITY

Responsibly reimagined.

Z CORE G3

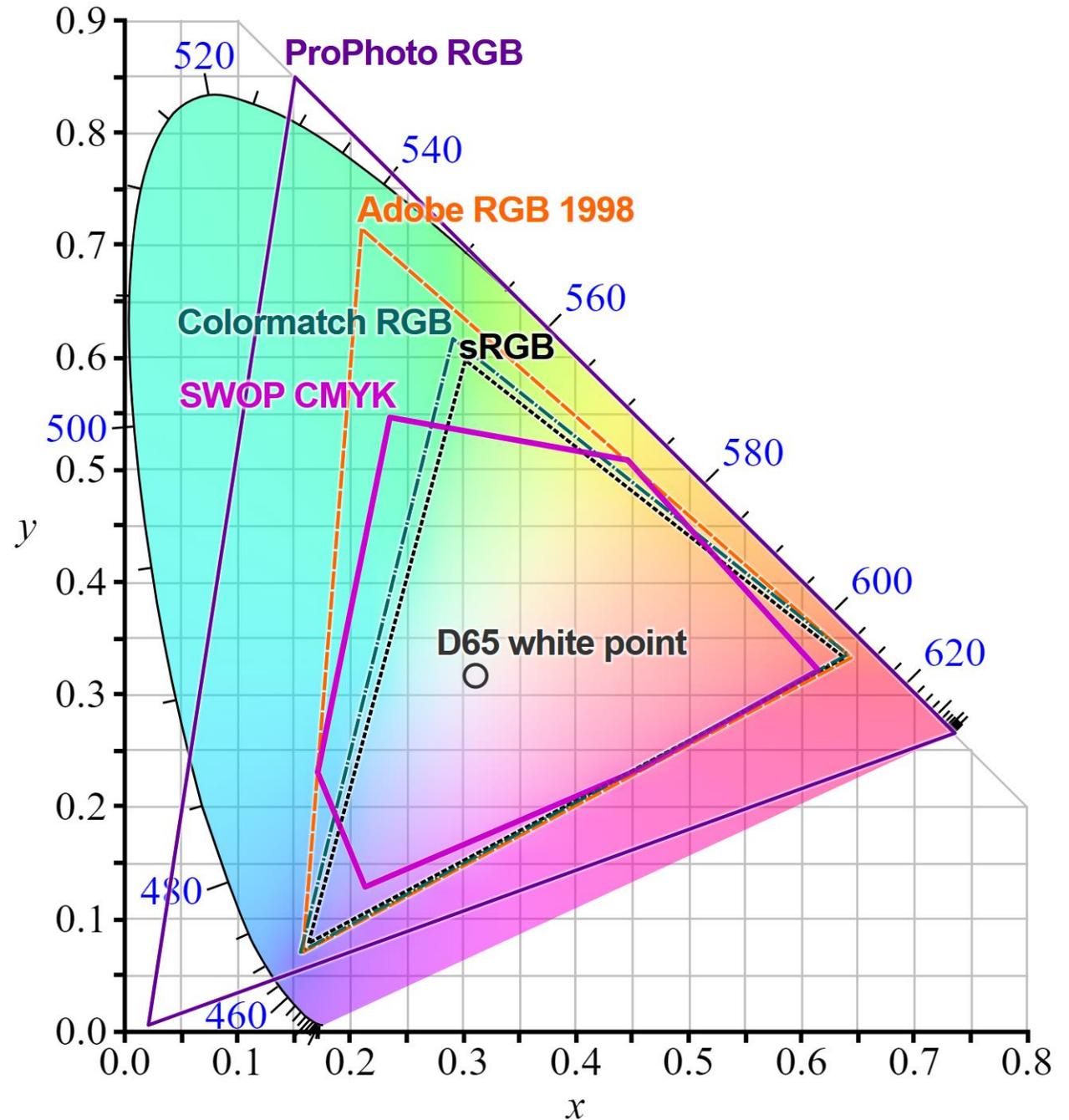## ALWAYS MOVING FORWARD – BETTER ID, BETTER FOS, BETTER CONNECTIVITY

New 2020
Z Displays

Display Size (inches)	Z	
*Green Packaging	•	
*4-sided Micro-Edge Bezel	•	BETTER ID
*6.5 mm thickness at edge	•	
Factory Color Calibration	•	
Single source panel	•	
ZBD Guarantee	•	BETTER FRONT OF SCREEN
*Hardware Low Blue Light	•	
*High Brightness	•	
Daisy Chain	•	BETTER CONNECTIVITY
*Power Delivery with RJ45	•	
	HP Z Quality	

* New in G3 Z Refresh

Even Deeper (Nerd alert!)

- What is the Z Display Factory Calibration Spec?
  - Calibrated to sRGB D65
    - 6504° kelvin
    - Thought to be the color of white emitted by the sun on a noontime cloudless day

- sRGB is default for consumer inkjet printing, digital cameras

- Adobe RGB used in higher end printing accommodates a wider (pushes green) gamut

- sRGB D55 (5503° Kelvin) was adopted by early film industry as white as it was measured to be the color of a carbon graphite rod as it burns (light source in early film projectors)
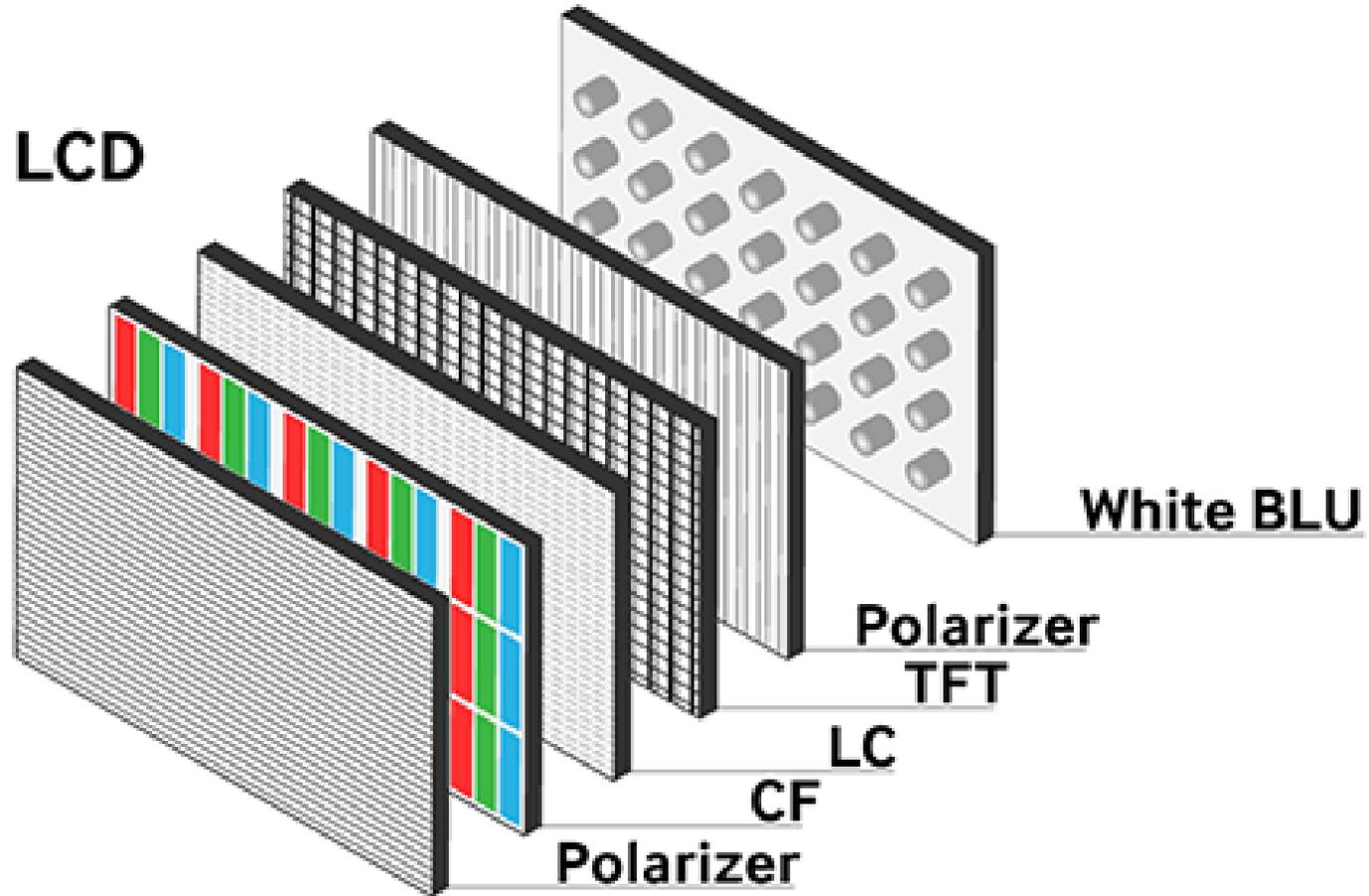
HP Eye Ease
Introduction / Training
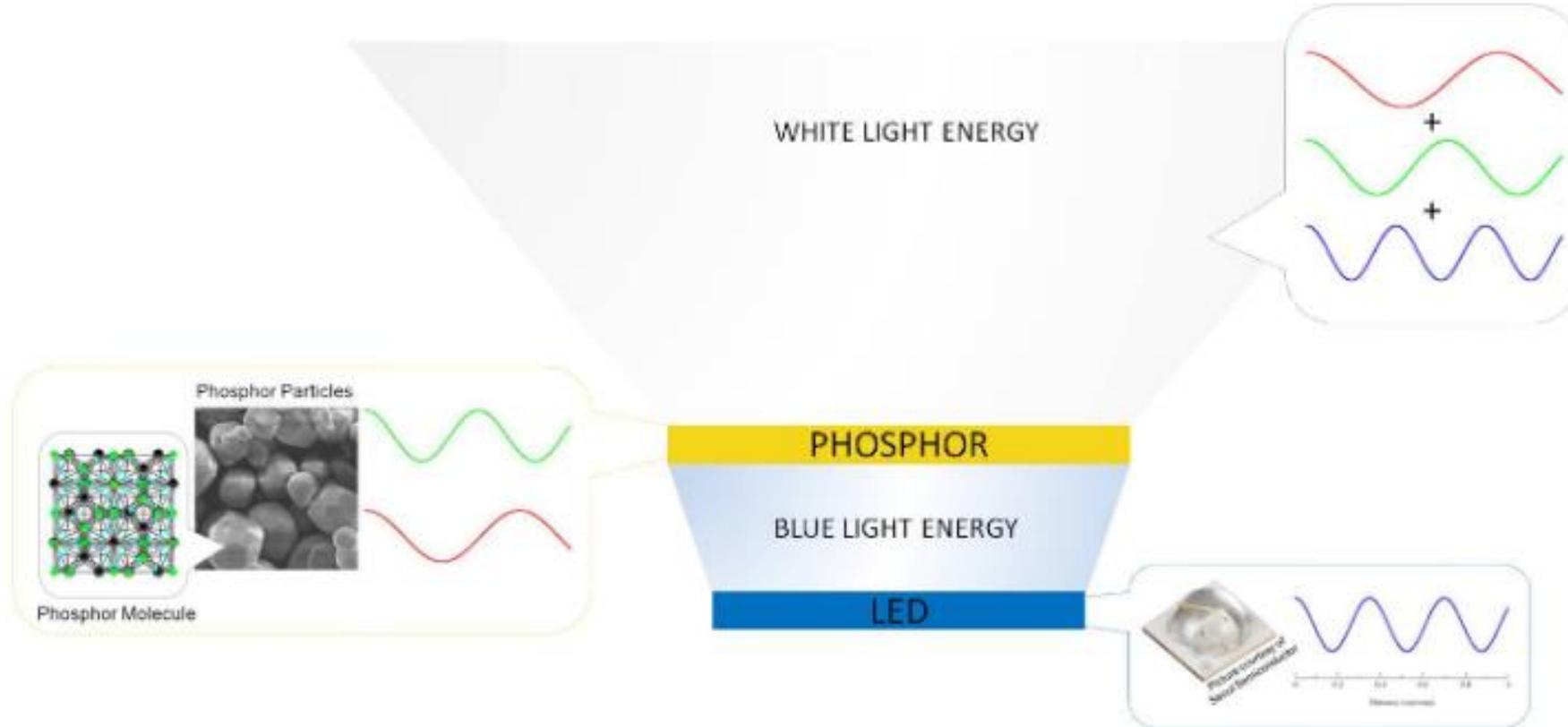
Pulse Connect
Jun 15, 2020

Typical LCD Panel stack
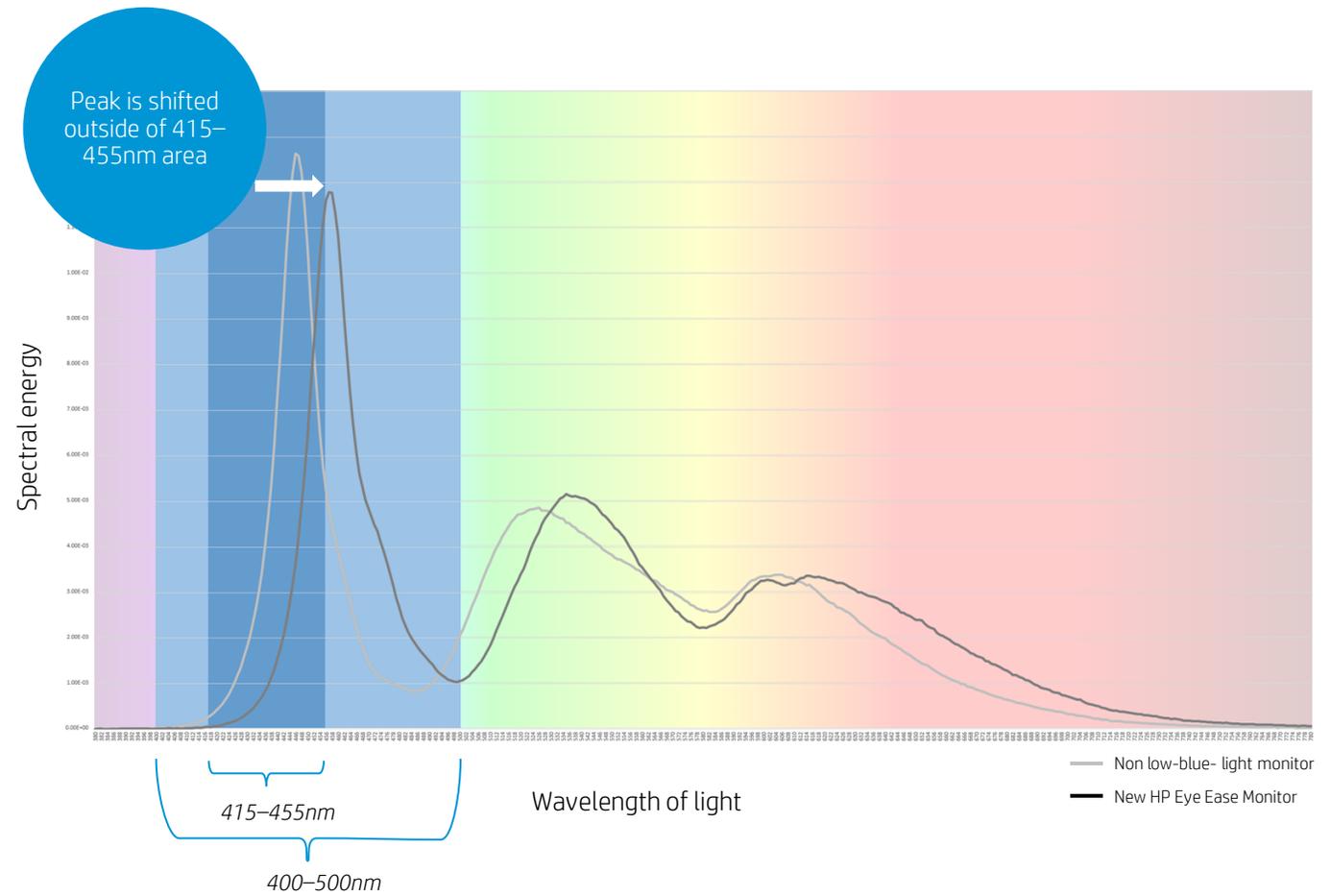## White LED Backlight Design

LCD

White BLU

Polarizer

TFT

LC

CF

Polarizer

White Back Light Unit LED Design

Blue LED + Yellow Phosphor

HP LOW BLUE LIGHT
HARDWARE: Summary

HP Eye Ease meets the TÜV Hardware
Low Blue Light specification by reducing
the 415–455nm area by well over 50%.

Peak is shifted outside of 415–455nm area

Spectral energy

Wavelength of light

415–455nm

400–500nm

Non low-blue- light monitor

New HP Eye Ease Monitor

How it works- THE MAGIC INSIDE		CURRENT SW SOLUTION	NEW SOLUTION	HP CLAIM
HP worked with Panel suppliers to select a different grade of Blue LEDs. *These new LEDs produce an energy peak majority outside the zone of concern*	*HP has an exclusivity period to lead the industry (6–12 mo expected)*	*Previous HP displays provide a Low Blue Light preset that reduces the blue light output. The side effect is a yellow tint and reduced brightness*	*With HP Eye Ease, the blue LED's wavelength is shifted, moving the blue spectral peak outside of the 415–455nm area*	*With HP Eye Ease, we can safely claim that we meet the TÜV Hardware Low Blue Light specification by reducing the 415–455nm area by well over the 50% requirement . It is reduced down to a light energy ratio of 33%.*

Sustainability matters

Wellbeing for you, Wellbeing for the environment

Z BY HP

World's first performance monitor series with **75% recycled aluminum stands.***

World's first performance monitor series with **ocean bound plastics.****

80%
Of its plastic is made from recycled Material

100%
Sustainably Sourced and Recyclable Packaging

75%
Of its stand's aluminum is made from Recycled Material

5%
Of its plastic is made from Ocean Bound Plastics

E-SERIES

Sustainably sourced and recyclable packaging[5]

Easily accepted by recycling facilities

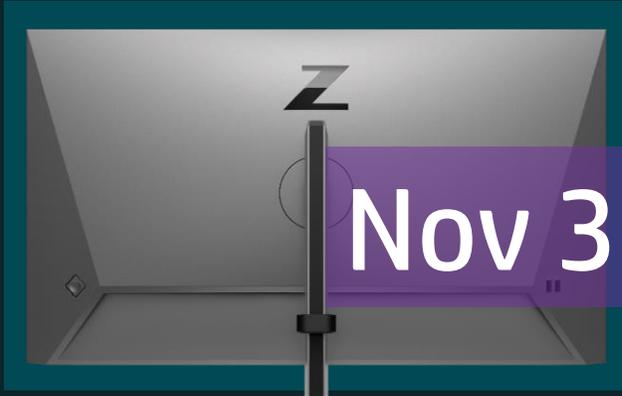Each display is created with 85% recycled material

ENERGY STAR® certified

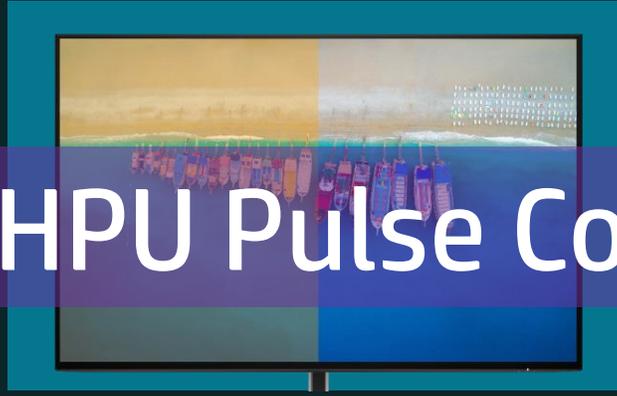EPEAT® 2019 registered[6]

Low halogen[7]

Why Z Gen 3 Displays?
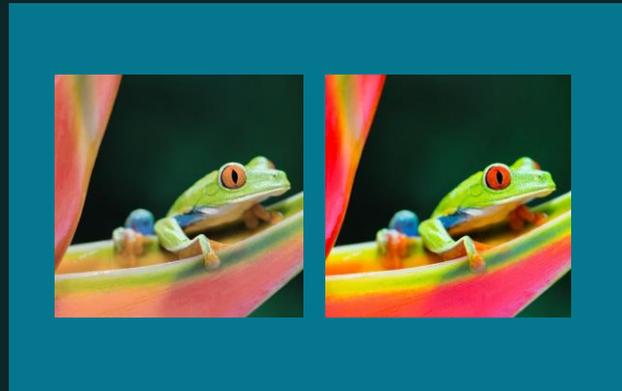
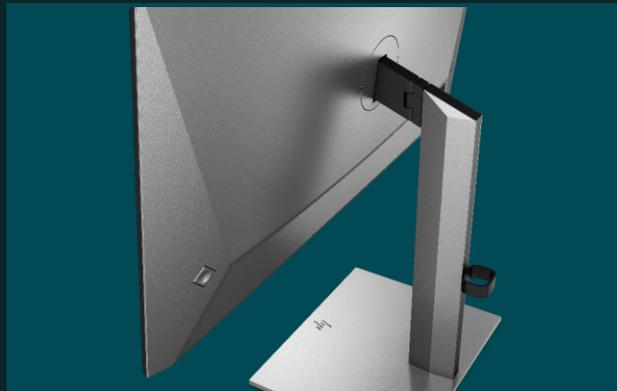

Nov 30 HPU Pulse Connect

Premium Design

Enhanced Comfort with HP Eye Ease.

Pixel Perfect

New Pantone Certified

Responsibly sourced materials.

Flawless Performance for PC or Mac®.

Jan 19 HPU Pulse Connect

- March DreamColor NPI Deep Dive
- Refresher on March Z Core 27" USB-C NPI models
- Preview of May Z Core 24" USB-C model

2020, A YEAR OF INNOVATION - UNLEASHED
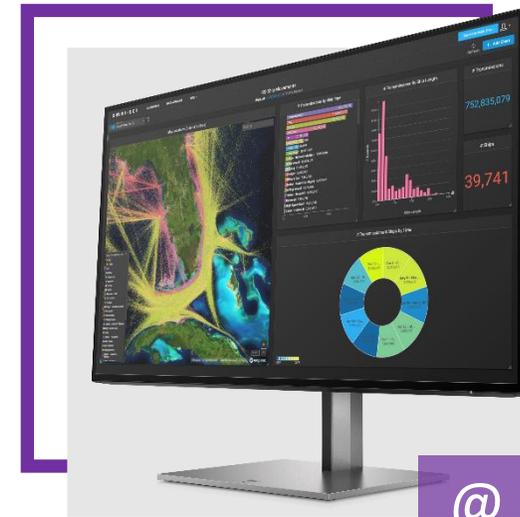
@ Adobe Max

HP E-Series 2020 Monitors

WORLD'S FIRST
ergonomic monitor series with always-on low-blue-light with HP Eye Ease

HP E14 Portable Monitor

WORLD'S BRIGHTEST
14-inch portable monitor

HP Z Displays & Display Manager

WORLD'S FIRST
color accurate monitor series with HW Low-Blue-Light

WORLD'S MOST
comprehensive remote management solution for Displays

AWARDS

THE PRESS IS NOTICING

2020 TECH INNOVATOR AWARD

HP **S430c** Monitor

iF WORLD DESIGN AWARD 2020

HP **S430c** Monitor

HP **USB-C Conferencing** Monitors
TECHRADAR

"HP has launched its first *conferencing monitors* that are equipped with everything needed for remote online collaboration, including a webcam, a microphone, and a speaker bar. "

HP **USB-C Conferencing** Monitors
CRN

"For its two new conferencing monitors, the E24d G4 and E27d G4, HP is including a number of features aimed at enhanced video and audio-conferencing experiences."

HP **DreamColor** Displays
DP Review

"HP introduced the newest products added to its HP Create Ecosystem, including the next-generation DreamColor and Z by HP monitors."

HP **DreamColor** Displays
The Phoblographer

"The biggest news for photographers to come from these HP announcements is the new HP Z DreamColor Displays. It's absolutely essential for us to have color-accurate monitors that can display our images cleanly without detail loss."

NO LIMITS WITH Z

DESIGNED FOR MAC OR PC. PREMIUM FOR EVERYONE.

Engineer or Data Scientist

The Power User

who needs a **high performing** and a **high-resolution** monitor with a **large screen size** to work with complex software and programs.

Marketer or Entrepreneur

The person who wants a premium upgrade

who needs a monitor with connectivity, **USB-C® power delivery** and **HP Eye Ease** for optimal productivity.

Executive or Director

The premium user

who needs **premium design, HP Eye Ease** and, **full adjustability** for enhanced comfort after long hours spent using their monitor.

Photographer or Graphic Designer

The Professional Creator

who needs a **high performing** monitor with a **large screen size, high resolution, and color accuracy**

CONQUER THE
COMPETITION

Dell UltraSharp

HP Z Displays G3

23.8"	24"	27"	Display Size (inches)	23.8"	24"	27"
●	●	●	Factory Calibration	●	●	●
●	●	●	4 Side Borderless	●	●	●
●	●	●	sRGB, DCI P3, BT.709 Color Spaces	●	●	●
●	●	●	DP 1.4	●	●	●
●		●	DP Daisy Chain	●	●	●
			USB-C 100W Power Delivery		●	●
			PiP/PbP		●	●
	●	●	350 Nit Panel		●	●
●			HW Low Blue Light	●	●	●
	●		Recycled Aluminum/Ocean Bound Plastics	●	●	●
	●		150mm Height Adjust	●	●	●

PERFORMANCE

Simple connectivity. Mac or PC

Z WIN

100W power
delivery versus
Dell's 90W

USB-C 100W Power • DisplayPort 1.4 • RJ-45 • 4 USB-A Ports • Up to 4K • PbP and PiP • Daisy Chain

DISPLAY MANAGER

ITDM Endpoint Management Solution for Displays

CONTROL REMOTELY
Monitor and track remotely

EASY MONITORING
See an overview of all monitors

EXTEND MONITOR LIFE
Adjust power settings and save energy.

E-Series vs. Z Displays
DIFFERENTIATION

E-SERIES

Z DISPLAYS

Workforce wellbeing for optimal productivity

Designed to delight. Built to perform

E-SERIES	FOCUS / VALUE PROPOSITION / USE CASES / FOR THOSE THAT DEMAND	Z DISPLAYS
Mainstream	FOCUS	Premium
HP Eye Ease, Ergonomic comfort, and Environmental responsibility	VALUE PROPOSITION	Accurate color. Superior design. Flawless performance.
Marketing, Legal, and Strategy	USE CASES	Engineering, Product Design, Photography, and Animation
Holistic Wellbeing	FOR THOSE THAT DEMAND	Ultimate Precision, Performance & Premium

Z vs E Direct Compare

	DreamColor XS	Z Power Delivery	Z (Not Power Delivery)	E Docking	E Series
Productivity & Efficiency					
Sizes	25", 27"	24", 27"	23.8", 24", 27"	23.8", 27"	22", 23", 23.8", 24", 27"
Resolutions	QHD, **4K/UHD**	WUXGA, QHD, **4K/UHD**	FHD, WUXGA, QHD	FHD, QHD	FHD, WUXGA, QHD
Ports	HDMI, **DP 1.4**, **USB-C**, USB	HDMI, **DP 1.4**, **USB-C**, USB, **RJ 45**	HDMI, DP 1.2/1.4, USB	HDMI, DP, **USB-C**, USB, **RJ 45**	HDMI, DP, VGA, USB
Power Delivery	**100W**	**100W**	X	**100W**	X
Comfort & Wellbeing					
Ergonomics	Height, tilt, pivot, swivel	Height, tilt, pivot, swivel	Height, tilt, pivot, swivel	Height, tilt, pivot, swivel	Height, tilt, pivot, swivel
Low Blue Light	X	**HP Eye Ease**	**HP Eye Ease**	**HP Eye Ease**	**HP Eye Ease**
Special Features	Daisy chaining, PiP/PbP, **Remote Manageability, One Touch Brightness Adjust**	Daisy chaining, PiP/PbP, **Remote Manageability**	Daisy chaining, PiP/PbP	Daisy chaining, **Remote Manageability, Integrated pop-up webcam with Windows Hello**	X
Sustainability	Plastics: **80%+** consist of recycled plastics and ocean bound plastics; Aluminum: **75%** consist of upcycled aluminum	Plastics: **80%+** consist of recycled plastics and ocean bound plastics; Aluminum: **75%** consist of upcycled aluminum	Plastics: **80%+** consist of recycled plastics and ocean bound plastics; Aluminum: **75%** consist of upcycled aluminum	Plastics: 80% consist of recycled plastics	Plastics: 80% consist of recycled plastics
Creativity & Content					
Color	**99% sRGB, 95-98% DCI P3, Factory Calibrated Color Presets named according to standard creative workflows**	**99% sRGB**, 85% DCI P3, BT.709 **Factory Color Calibrated**	**99% sRGB**, 85% DCI P3, BT.709 **Factory Color Calibrated**	72% NTSC	72% NTSC

2021 Z by HP Family

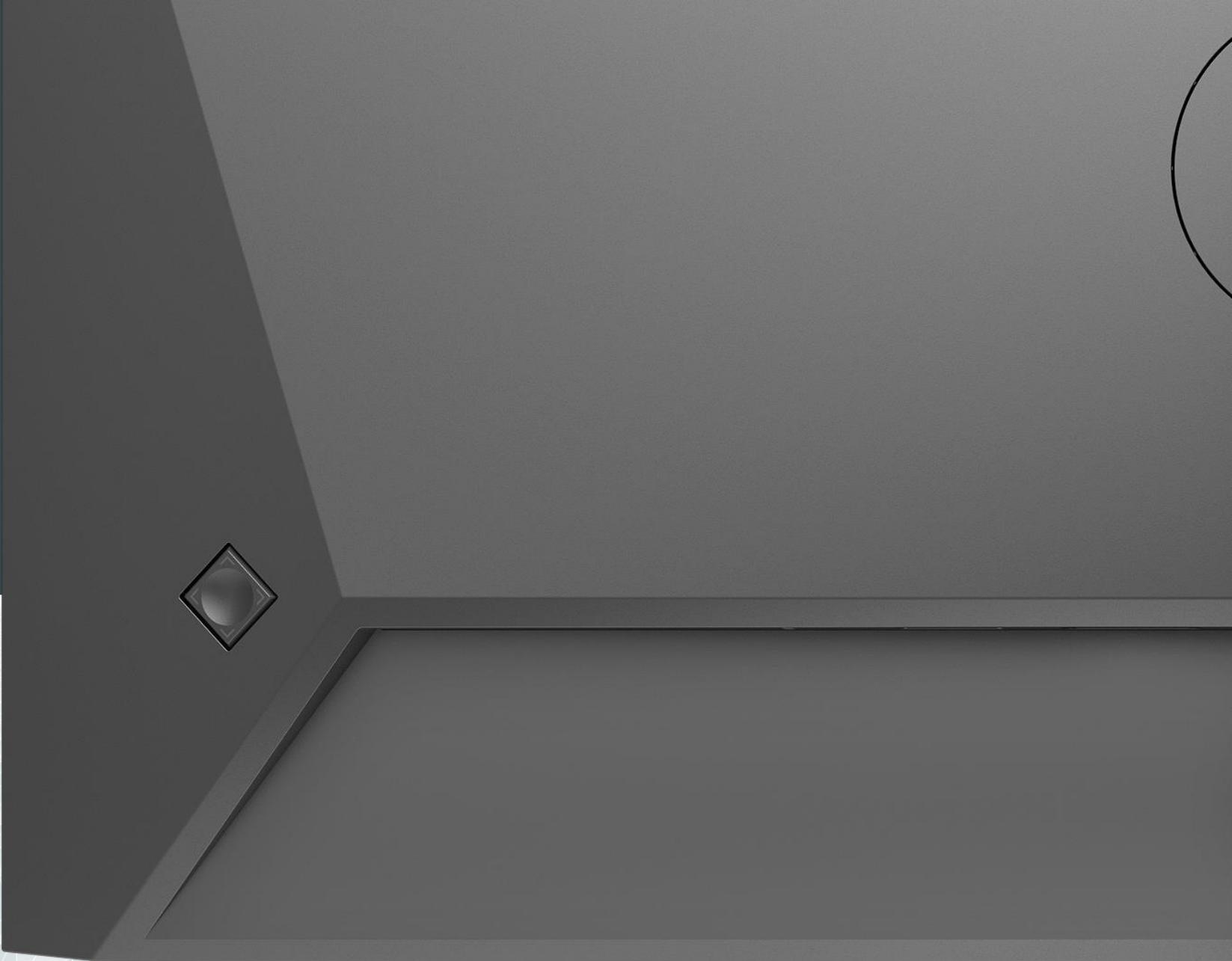| Z24f G3 FHD	Z24n G3 WUXGA	Z24u G3 WUXGA	Z27q G3 QHD	Z27u QHD G3 USB-C	Z27k 4K G3 USB-C
23.8 inch	24 inch	24 inch	27 inch	27 inch	27 inch
FHD	WUXGA	WUXGA	QHD	QHD	4K
		100W USB-C® Power Delivery		100W USB-C® Power Delivery	100W USB-C® Power Delivery

Neutral turbo silver finish

Cast an alluring profile as the stand-out centerpiece for any desk.

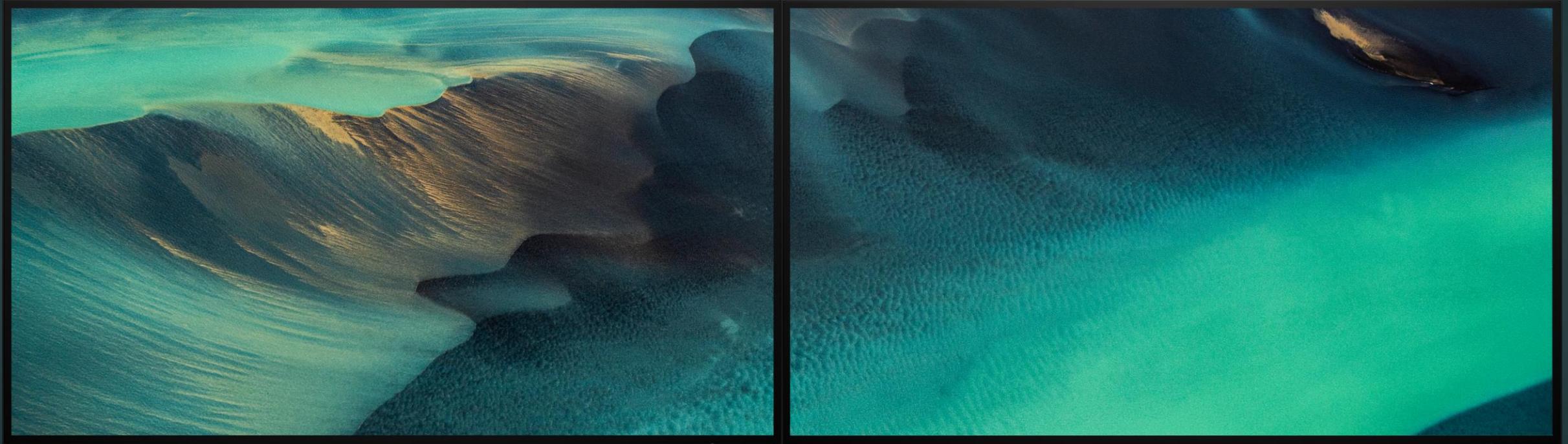An elegant design for the modern home or office workspace.

hp

OSD Toggle

Simple joystick menu navigation so you can easily switch between color spaces or adjust your monitor settings.

Virtually Borderless

By dramatically increasing the screen to body ratio, we've removed the barrier between designer and design.

4-Sided Micro Edge Design

Razor-thin Z Displays

Meticulously crafted to surpass every design standard.

Previous Gen: 36.5mm

New ID: 6.5mm

82%

Thinner than
previous generations

hp

WORKFORCE WELLBEING
TAKE CARE OF USERS WITH HP EYE EASE

BEFORE
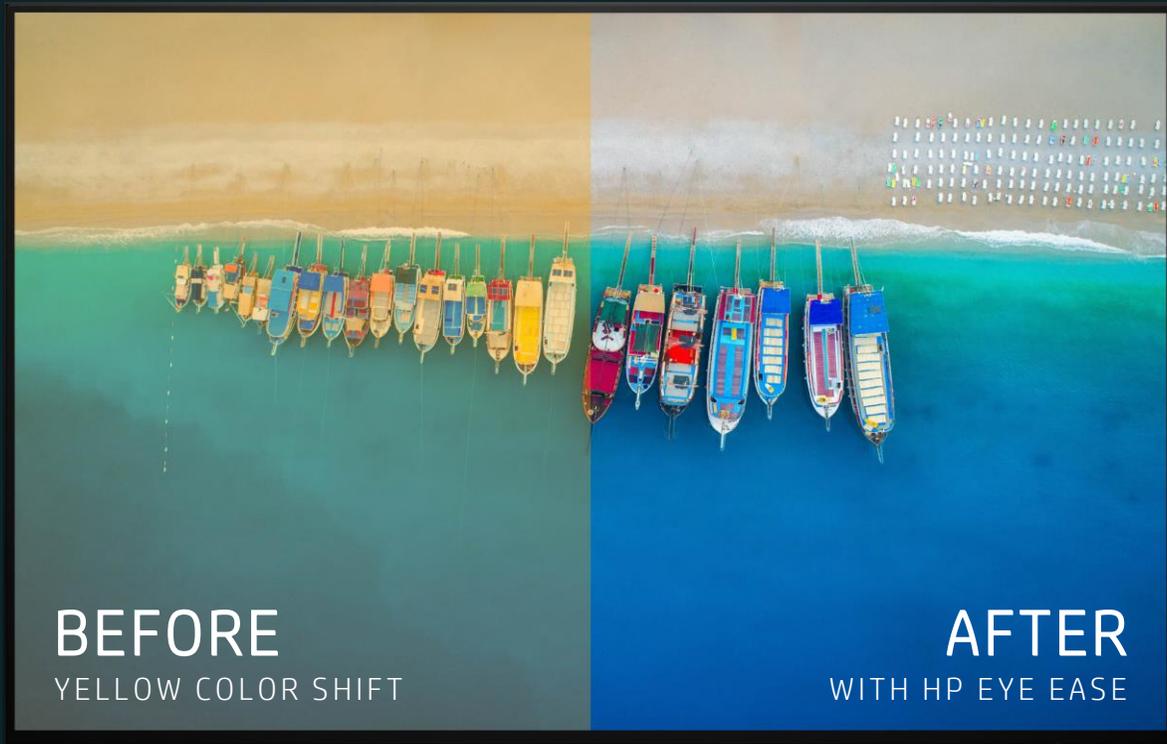YELLOW COLOR SHIFT

AFTER
WITH HP EYE EASE

HP Eye Ease

World's First
Performance monitor <u>series</u>
with always-on low-blue-light*

Work **with always-on low-blue-light**, without distorting your color accuracy or consistency, to keep you performing in ultimate comfort.

TÜV Rheinland
Low Blue Light
(Hardware
Solution)

TÜVRheinland®
CERTIFIED
www.tuv.com
ID 0000073840
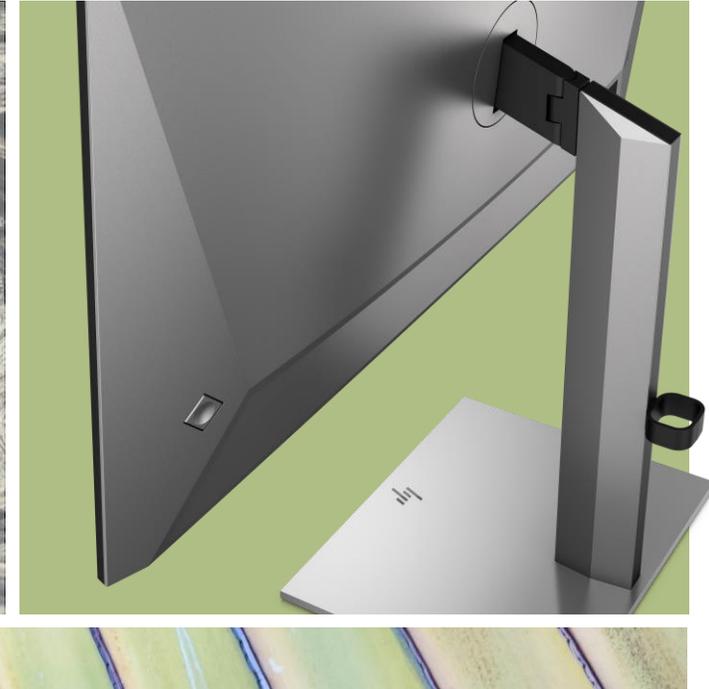
Part of **the world's** most sustainable PC Portfolio*

Positively impact your workflow with less impact on the planet.

Its plastics consist of over **80%** recycled materials** including **5% ocean bound plastics**.

100% sustainably sourced and recyclable packaging*** that is accepted by recycling facilities.

Monitor's stand is created from aluminum, **75%** of which is recycled.