

### Technical Specifications

#### HP DreamColor Z24x G2 24-inch Display



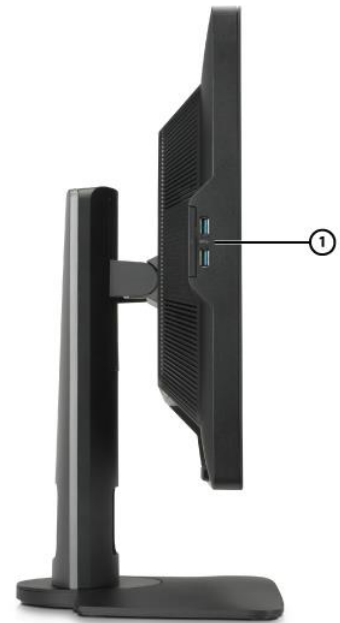
- 1. Programmable hotkey Function buttons** 4 programmable hotkey function buttons with 12 mappable functions
- 2. Power/LED** Power On/Off  
  
LED:  
fully powered = white  
sleep mode = amber  
sleep timer mode = flashing amber
- 3. Cable Management** Effortless routing of cables through the cable management tunnel at the base of the column

### Technical Specifications



Rear

1. Security Lock Slot



Side

1. 2- USB 3.0



1. Power Switch
2. Power Cable Connector
3. DisplayPort™ 1.2 (input)
4. DVI-D
5. HDMI 1.4
6. DisplayPort™ 1.2 (output)
7. Audio out (analog)
8. 1- USB 3.0 (upstream)
9. 2- USB 3.0 (downstream)

### Technical Specifications

Models: 1JR59A4

<b>Panel</b>	<p><b>Type</b> 24-inch IPS Gen 2, LED Backlit</p> <p><b>Viewable Image Area (diagonal)</b> <b>60,96 cm</b> (24 in) widescreen; diagonally measured</p> <p><b>Panel Active Area (W x H)</b> <b>52 x 32,56 cm</b> (20.47 x 12.81 in.)</p> <p><b>Panel Type</b> Gen 2 IPS (Gen 2 technology, also called AH-IPS, enables lower power consumption)</p> <p><b>Resolution</b> 1920 x 1200 @ 60 Hz</p> <p><b>Aspect Ratio</b> 16:10</p> <p><b>Viewing Angle (typical)</b> Up to 178° horizontal/178° vertical (10:1 minimum contrast ratio)</p> <p><b>Brightness (typical)*</b> 350 cd/m<sup>2</sup></p> <p><b>Contrast Ratio (typical)*</b> 1,000:1</p> <p><b>Dynamic Contrast Ratio (typical)*</b> 5,000,000:1</p> <p><b>Response Time (typical)*</b> 6 ms gray-to-gray</p> <p><b>Pixel Pitch</b> 0.270 mm</p> <p><b>Backlight Lamp Life (to half brightness)</b> 30,000 hours minimum</p> <p><b>Color Support**</b> 10-bit (8+2 FRC), up to 1.07 billion colors</p> <p><b>Color Gamut</b> 100% of sRGB, 100% of BT.709, 99% of AdobeRGB, 97% of DCI-P3</p>
--------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

\*All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

\*\* With the use of FRC technology.

<b>User Controls</b>	<p><b>On Screen Display (OSD) User Controls</b> Color Space, Video Input, Image Control, PIP Control, Language, Management, Menu and Message Control, Information, Factory Reset</p> <p><b>Monitor Control Buttons or Switches</b> Master power switch (rear), secondary power, 5 programmable OSD/function buttons</p> <p><b>User-Assignable Function Buttons</b> Yes, 4</p> <p><b>Languages</b> 10 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese and S-Chinese)</p>
<b>Color Management</b>	<p><b>Factory Color Calibrated</b> Yes (sRGB, BT.709, Adobe RGB)</p> <p><b>Color Space / Subsampling Support</b> RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2</p> <p><b>RGB Channel Adjust</b> Yes, Gain</p> <p><b>User Calibration Support</b> Host software (Windows or macOS)</p> <p><b>External Calibration Instrument Support</b> X-Rite i1Display Pro, Klein K10-A</p>
<b>Signal Interface/ Performance</b>	<p><b>Horizontal Frequency</b> 24–80 kHz</p> <p><b>Vertical Frequency</b> 24–60 Hz</p> <p><b>Native Resolution</b> 1920 x 1200 @ 60 Hz</p> <p><b>Preset VESA Graphic Modes (non-interlaced)</b> 640 x 480 @ 60Hz 800 x 600 @ 60 Hz 1024 x 768 @ 60 Hz 1280 x 720 @ 60 Hz 1280 x 960 @ 60 Hz 1280 x 1024 @ 60 Hz 1440 x 900 @ 60 Hz 1600 x 1200 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 60 Hz 1920 x 1200 @ 60 Hz</p> <p><b>Maximum Pixel Clock Speed</b> 170 MHz</p>

### Technical Specifications

<b>Anti-Glare</b>	Yes
<b>Flicker Free</b>	Yes
<b>Default Color Temperature</b>	D65 (6504K)

### VIDEO/OTHER INPUTS

<b>Connector Types</b>	<b>DisplayPort™</b>	(1) DisplayPort™ 1.2 (1 input and 1 output)
	<b>HDMI</b>	(1) HDMI 1.4
	<b>DVI-D</b>	(1) Single Link
	<b>HDCP support</b>	Yes, all video inputs
<b>USB Port Specifications</b>	<b>Audio</b>	(1) Audio out (analog)
	<b>USB Version</b>	3.0
<b>Cables Included</b>	<b>USB Hub</b>	Yes
	<b>Downstream Ports</b>	4 Ports
	<b>Upstream Ports</b>	1 Port
<b>Cables Included</b>	<b>Video Cables Included</b>	(1) DVI-D <b>1,8 m</b> (5.9 ft), (1) DisplayPort™ <b>1,8 m</b> (5.9 ft)
	<b>USB Cable Included</b>	(1) USB 3.0 <b>1,8 m</b> (5.9 ft)

### POWER

<b>Power</b>	<b>Power Supply</b>	Internal
	<b>Input Power</b>	90 - 265 VAC at 45 - 63 Hz
	<b>ENERGY STAR® Power<sup>1</sup></b>	18.57 W
	<b>Typical Power<sup>2</sup></b>	13.5 W
	<b>Maximum Power<sup>3</sup></b>	54.18 W
	<b>Energy Saving/Standby Mode</b>	0.5 W
	<b>Power Cable Length</b>	<b>1,9 m</b> (6.2 ft)

### DIMENSIONS AND WEIGHT

<b>Mechanical</b>	<b>Dimensions (W x D x H)</b>	<b>Unpacked w/stand</b> (highest setting)	<b>55,94 x 23,8 x 52,5 cm</b> (22 x 9.4 x 20.7 in)
		<b>Unpacked w/o stand</b> (head only)	<b>55,94 x 6,65 x 36,5 cm</b> (22 x 2.6 x 14.4 in)
		<b>Packaged</b>	<b>66 x 45 x 30,1 cm</b> (26 x 17.7 x 11.8 in)
<b>Mechanical</b>	<b>Weight</b>	<b>Head Only</b>	<b>4,73 kg</b> (10.4 lb)
		<b>Unpacked</b>	<b>6,98 kg</b> (15.4 lb)
		<b>Packaged</b>	<b>8,98 kg</b> (19.7 lb)

### Technical Specifications

#### MONITOR FEATURES

<b>Plug and Play</b>	Yes
<b>Color</b>	Black
<b>4-Way Comfort Adjust</b>	Easily adjust the display in height, tilt, swivel and pivot for maximum comfort.
<b>Integrated Quick Release<sup>9</sup></b>	An easy-to-use, VESA-compliant, LCD monitor mounting solution that allows you to quickly and securely attach an LCD monitor to a variety of stands, brackets, arms or wall mounts.
<b>Cable Management</b>	Enhanced cable management for easy concealment of power, video and USB cables. Effortless routing of cables through the cable management tunnel at the base of the column.
<b>Detachable Stand</b>	Yes, ships detached
<b>Tilt Range</b>	-5° to + 20° vertical
<b>Swivel Range</b>	45°L to 45°R
<b>Display height adjustment:</b>	Adjustment Range: 151 mm Minimum (desk to bottom of display): 16 mm Maximum (desk to bottom of display): 167 mm
<b>Pivot Rotation</b>	Yes
<b>VESA Mounting</b>	Yes, 100 mm with integrated mount
<b>Security Lock-Ready</b>	Yes
<b>Picture-in-Picture, Picture-by-Picture</b>	Yes

#### ENVIRONMENTAL Specifications

<b>Temperature - Operating</b>	<b>5° to 35° C</b> (41° to 95° F)
<b>Temperature - Non-operating</b>	<b>-20° to 60° C</b> (-4° to 140° F)
<b>Humidity - Operating</b>	20% to 80% Relative Humidity non-condensing
<b>Humidity - Non-operating</b>	5% to 95%, 38.7° C max wet-bulb
<b>Altitude - Operating</b>	<b>0 to 5,000 m</b> (0 to 16,404 ft)
<b>Altitude - Non-operating</b>	<b>0 to 12,192 m</b> (0 to 40,000 ft)
<b>White LED Backlights</b>	Yes
<b>CCFL Panel</b>	No
<b>Arsenic-Free Display Glass</b>	Yes
<b>Low Halogen<sup>4</sup></b>	Yes (except cables)
<b>Mercury-Free Display Backlights</b>	Yes

#### OPTIONS (Each sold separately)

<b>HP USB Graphics Adapter— Part number NL571AA</b>	Enables connection of up to six simultaneous displays to help you boost productivity and multi-task across several open applications. Use one Adapter to bridge between a notebook or desktop PC and second monitor or use multiple Adapters to connect several displays to each other.
<b>HP Thin Client Mount Kit— Part number E5J35AA</b>	Attach your HP Thin Client or USDT PC to the back of select HP Z Displays and maintain optimal ergonomic adjustability with the HP Thin Client Mount Kit. Simply mount an HP Thin Client to the Kit's VESA plate, slide it into place on the back of an HP Z24i, Z27i or Z30i IPS Display stand, and you're ready to go.

### Technical Specifications

**HP LCD Speaker Bar—  
Part number NQ576AA**

Powered directly by the monitor or the PC, the Speaker Bar seamlessly attaches to the monitor's lower bezel to bring full audio support to select HP LCD monitors. Features include dual speakers with full sound range and external jack for headphones. Sold separately.

**HP Integrated Work Center Stand  
- USDT / Thin Clients —  
Part numbers E8H16AA/AT  
(black and meteorite),  
LH526AA/AT (black and silver).<sup>8</sup>**

HP Integrated Work Center Stand - USDT / Thin Clients - The HP Integrated Work Center Stand is designed to help maximize the use of limited desk space without compromising performance or productivity by accommodating an HP Ultra-slim Desktop PC or an HP Thin Client, and most HP 17 to 24-inch<sup>1</sup> diagonal LCD monitors, with VESA standard mounting brackets.

**HP Integrated Work Center Stand  
for Small Form Factors v3 —  
Part number F2P06AA<sup>7</sup>**

Maximize your available work space with the stylish and innovative HP Integrated Work Center for Small Form Factors v3 (HP IWC SFF v3), designed to match the newest HP PC designs. Create a customized "all-in-one" solution by combining an HP Small Form Factor (SFF) Business Desktop PC or Workstation with an LED monitor up to 24 diagonal inches.

**HP Single Monitor Arm—  
Part number BT861AA**

The flexible design of the HP Single Monitor Arm provides a seemingly endless range of display adjustments with an amazing 13 inches of lift, 50 degrees of tilt, and 360 degrees of pan and rotation – all at your fingertips -- helping you stay comfortable and productive throughout the day.

**HP Adjustable Dual Display  
Stand—Part Number AW664AA**

Premium space-saving dual screen solution provides access to more monitor real estate and makes it possible to manage multiple applications simultaneously. Weight adjustable for dual monitors from 17-24". Rotate displays into portrait/landscape positions.

**HP Display and Notebook II  
Stand—Part number E8G00AA**

Quickly and easily create a comfortable workspace for your notebook or notebook and docking station and an external display with the HP Display and Notebook II Stand, which brings your notebook PC, docking station, and display up off the desk.

**HP Adjustable Display Stand—  
Part number AW663AA**

Turn your HP Business Notebook into a desktop solution supporting up to a 24 inch display. A dual-hinged, smooth-motion display stand allows for greater depth, height and tilt adjustment for maximum comfort.

**HP DisplayPort™ Cable Kit —  
Part number VN567AA**

Connects a DisplayPort™ connector on an HP Business Desktop computer to a DisplayPort™ connector on a monitor.

**HP Business PC Security Lock  
Kit—Part number PV606AA**

Attaches to the rear of the PC with a six-foot steel cable that can be used to secure a PC or peripherals such as mice, keyboards, monitors or USB security devices to protect them against unauthorized removal by physically connecting the system to an anchor point.

### Technical Specifications

<b>Eco-Label Certifications &amp; declarations</b>	<p>This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:</p> <ul style="list-style-type: none"> <li>• IT ECO declaration</li> <li>• US ENERGY STAR®</li> <li>• TCO or TCO Certified Edge</li> <li>• Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <a href="http://www.epeat.net">http://www.epeat.net</a> for more information.</li> </ul>		
<b>Energy Consumption (in accordance with US ENERGY STAR® test method)</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation	18.57 W	18.25 W	18.65 W
Sleep	0.48 W	0.52 W	0.47 W
Off	0.23 W	0.28 W	0.23 W
<b>Heat Dissipation*</b>	<b>115VAC, 60Hz</b>	<b>230VAC, 50Hz</b>	<b>100VAC, 50Hz</b>
Normal Operation	63 BTU/hr	62 BTU/hr	63 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	1 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		
<b>Additional Information</b>	<ul style="list-style-type: none"> <li>• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.</li> <li>• This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.</li> <li>• This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).</li> <li>• This product is in compliance with the IEEE 1680.1 (EPEAT) standard, see <a href="http://www.epeat.net">www.epeat.net</a></li> <li>• Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.</li> <li>• This product contains 19.0% post-consumer recycled plastic (by wt.)</li> <li>• This product is 98.6% recycle-able when properly disposed of at end of life.</li> </ul>		
<b>Packaging Materials</b>	<b>External:</b>	PAPER/Corrugated	1265 g
	<b>Internal:</b>	PLASTIC/EPS (Expanded Polystyrene)	900 g
		PLASTIC/Polyethylene low density	110 g
<b>RoHS Compliance</b>	HP, Inc. is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. By July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).		

### Technical Specifications

<p><b>Material Usage</b></p>	<p>This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf</a>):</p> <ul style="list-style-type: none"> <li>• Asbestos</li> <li>• Certain Azo Colorants</li> <li>• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics</li> <li>• Cadmium</li> <li>• Chlorinated Hydrocarbons</li> <li>• Chlorinated Paraffins</li> <li>• Formaldehyde</li> <li>• Halogenated Diphenyl Methanes</li> <li>• Lead carbonates and sulfates</li> <li>• Lead and Lead compounds</li> <li>• Mercuric Oxide Batteries</li> <li>• Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user.</li> <li>• Ozone Depleting Substances</li> <li>• Polybrominated Biphenyls (PBBs)</li> <li>• Polybrominated Biphenyl Ethers (PBBEs)</li> <li>• Polybrominated Biphenyl Oxides (PBBOs)</li> <li>• Polychlorinated Biphenyl (PCB)</li> <li>• Polychlorinated Terphenyls (PCT)</li> <li>• Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.</li> <li>• Radioactive Substances</li> <li>• Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)</li> </ul>
<p><b>Packaging</b></p>	<p>HP follows these guidelines to decrease the environmental impact of product packaging:</p> <ul style="list-style-type: none"> <li>• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.</li> <li>• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.</li> <li>• Design packaging materials for ease of disassembly.</li> <li>• Maximize the use of post-consumer recycled content materials in packaging materials.</li> <li>• Use readily recyclable packaging materials such as paper and corrugated materials.</li> <li>• Reduce size and weight of packages to improve transportation fuel efficiency.</li> <li>• Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.</li> </ul>
<p><b>End-of-life Management and Recycling</b></p>	<p>Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <a href="http://www.hp.com/go/reuse-recycle">http://www.hp.com/go/reuse-recycle</a> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.</p> <p>The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <a href="http://www.hp.com/go/recyclers">http://www.hp.com/go/recyclers</a>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.</p>



### Technical Specifications

<b>HP, Inc. Corporate Environmental Information</b>	<p>For more information about HP's commitment to the environment:</p> <p>Global Citizenship Report  <a href="http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html">http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html</a></p> <p>Eco-label certifications  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html">http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html</a></p> <p>ISO 14001 certificates:  <a href="http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842">http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842</a>                      and  <a href="http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf">http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf</a></p>

### WHAT'S IN THE BOX?

<b>What's in the box?</b>	<b>Monitor and Accessories</b>	HP DreamColor Z24x G2 24-inch Display, AC power cord, USB 3.0 cable, DVI-D cable, DisplayPort™ 1.2 cable
	<b>Documentation</b>	DVD documentation kit, factory calibration report
<b>Other</b>	<b>Software included</b>	HP DreamColor Calibration
	<b>User Guide Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	<b>Warranty Languages</b>	English, Arabic, S. Chinese, T. Chinese, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Kazakh, Korean, Norwegian, Polish, Brazilian Portuguese, Russian, Slovenian, Spanish, Swedish and Turkish.
	<b>Country of Origin</b>	China

### CERTIFICATION AND COMPLIANCE

<b>Certification and Compliance</b>	Microsoft WHQL Certification (Windows 10, Windows 8 and Windows 7), ENERGY STAR® 7 Certified, SmartWay Transport Partnership (NA only)
<b>Compatibility</b>	Compatible with platforms using the VESA standard video modes. Recommended for use with HP products.
<b>Service and Warranty</b>	Protected by HP, including a 3 year standard limited warranty. Optional HP Care Pack Services are extended service contracts that extend your protection beyond the standard warranties. <sup>6</sup>
<b>Zero Bright Dot Policy*</b>	Yes

\*The HP Pixel Policy allows no bright sub-pixel defects for this display. For complete details, see <http://support.hp.com/us-en/document/c00288895>.

### Technical Specifications

Copyright © 2019 HP Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

ENERGY STAR is a registered trademark owned by the U.S. Environmental Protection Agency. DisplayPort™ and the DisplayPort™ logo are trademarks owned by the Video Electronics Standards Association (VESA®) in the United States and other countries.

1. ENERGY STAR® power is measured with factory defaults, brightness at ENERGY STAR® level of 200 cd/m<sup>2</sup> and with no USB loads.
2. Default Power is measured with factory defaults, including factory default brightness and USB ports loaded at 25% of maximum.
3. Maximum Power is measured with monitor at maximum brightness and with USB ports loaded at 100% of maximum.
4. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
5. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit <http://www.epeat.net> for more information.
6. Service levels and response times for HP Care Pack Services may vary depending on your geographic location. Service starts from date of hardware purchase. Restrictions and limitations apply. See <http://www.hp.com/go/cpc> for details.
7. 17 to 24-inch diagonal monitors need to meet supported weight limits of 6 to 12.1 lbs. (2.7 to 5.5 kg).
8. The Integrated Work Center Stand has been designed to support 17 to 24-inch diagonal HP LCD monitors from 2.3 kg to 5.2 kg (5.07 lbs to 11.24 lbs).
9. The HP Quick Release has been designed to support a maximum of up to 24 lbs (10.9 kg) for all devices mounted. Because mounting surfaces vary widely and the final mounting method and configuration may vary, mounting fasteners are not supplied (other than the VESA-compliant screws). HP recommends that you consult with a qualified engineering, architectural or construction professional to determine the appropriate type and quantity of mounting fasteners required for your application and to ensure that your mounting solution is properly installed to support applied loads.

### Technical Specifications

Change Log		
<b>V1 to V2</b>	July 19, 2017	Environmental information added
<b>V2 to V3</b>	May 23, 2019	Updated EPEAT