# Panasonic







### **Full Brightness with Virtually Un-noticeable Operation**





The PT-DZ780LB/DZ780LW, PT-DW750LB/DW750LW, and PT-DX820LB/DX820LW are not equipped with a lens. The cabinet for each model is available in black (PT-DZ780B/DW750B/DX820B) or white (PT-DZ780W/DW750W/DX820W).

# High 8,200<sup>°</sup>/7,000 Im Brightness with Exceptionally Low 30 dB Noise

Panasonic's PT-DZ780 Series projectors feature a redesigned air cooling system that achieves 30-dB quietness even when operating with full brightness. As the quietest projectors<sup>\*2</sup> in their class, they expand usability in noise-critical



situations. Panasonic's original Dynamic RGB Booster also ensures an excellent balance of brightness and color reproduction. The dual lamp system contributes to reliable operation, less downtime, and low maintenance cost.



#### Outstanding Images with Low-Noise Operation

#### High Brightness of 8,200/7,000 Im

A dual-lamp system using two newly developed,

high-output 310 W lamps provides high brightness of 8,200 Im for the PT-DX820 and 7,000 Im for the PT-DZ780/DW750.



## Virtually Un-noticeable Operation with 30 dB in Normal Mode

Thanks to a carefully designed airflow control system and cooling fans, operation noise is dramatically reduced to 30 dB even when the



projector is used with the lamps at full power in normal mode, making the PT-DZ780 Series the quietest in its class.\*<sup>2</sup> The projector intakes air from the bottom of the unit and exhausts it from the back, eliminating openings in the front and sides to eliminate noise leakage. The newly developed fans are also positioned to enable the fans to operate efficiently with slower rotation and less noise.

#### The Dynamic RGB Booster Enhances Both Brightness and Color Reproduction

Panasonic's Dynamic RGB Booster achieves high image quality with levels of color reproduction and brightness that make each color stand out. It



combines Panasonic's proprietary Vivid Color Control technology with a Lamp Modulation Drive System for a 1-chip DLP<sup>™</sup> projector that produces bright and vivid colors. Images are analyzed frame by frame, and scene-linking and real-time modulation are used to achieve high brightness and vivid color reproduction.

# Detail Clarity Processor Brings Depth and Clarity to Details

This advanced image-processing circuit analyzes the video signal frequency range for each scene by extracting data on the distribution of high, mid, and low-frequency components, and brings out fine details accordingly. The resulting images have a more natural, three-dimensional appearance with crisp, clear detail.

#### Reliable Operation with Low Maintenance Cost and Time

#### Long-Lasting Lamp Life for up to 4,000<sup>\*3</sup> Hours

The PT-DZ780 Series projectors employ newly developed high-power 310 W lamps that have a long replacement cycle of up to 4,000 hours<sup>\*3</sup> to help lower the total cost of ownership.

Lamp mode	Brightne	Lamp replacement cycle (hours)			
	PT-DZ780/ DW750				
Dual: Normal	7,000	8,200	4,000		
Dual: Eco	5,600	6,560	6,000		
Single: Normal	3,500	4,100	8,000		
Single: Eco	2,800	3,280	12,000		

#### **Dust-Resistant Optical Block**

The optical block, the heart of the projector, is hermetically sealed to resist the effects of dust

and other particles in the air, which makes it possible to remove the air filters for optics. It also contributes to the low TCO.



#### Liquid Cooling System for a $\text{DLP}^{\scriptscriptstyle \text{TM}}$ chip

Panasonic's unique liquid cooling system directly cools the DLP<sup>TM</sup> chip to improve performance and enable operation up to  $45^{\circ}$ C ( $113^{\circ}$ F).<sup>4</sup> This allows use in a wider variety of environments, while stabilizing performance and keeping the unit quiet even in harsh conditions.

## Dual-Lamp System Prevents Image Interruptions

This system eliminates the interruption if a lamp should fail (in dual-lamp operation mode). The Lamp Relay mode also operates the lamps alternately to enable 24/7 projection.\*<sup>5</sup>

#### **Flexible System Functionality**

# DIGITAL LINK Transmits Digital Signals up to 150 $m^{\star6}$ (492 $ft^{\star6})$ with a Single Cable

DIGITAL LINK is an original function added to HDBaseT<sup>™</sup> technology. Equipped with a DIGITAL LINK terminal, the PT-DZ780 Series projector allows transmission of HDMI, uncompressed HD digital video, and control signals (Ethernet, RS-232C) for up to 150 m<sup>\*6</sup> (492 ft<sup>\*6</sup>) through a single CAT5e



(STP) cable or higher. This simplifies cabling and system upgrades, making it ideal for ceilingmounted and other permanent installations. A single cable solution can be expanded by using the new DIGITAL LINK switcher ET-YFB200G (optional).



For details on other manufacturers' equipment, visit our Projector Global Web Site: panasonic.net/prodisplays/solutions/

technology/digital\_link/

# The ET-DLE030 ultra-short throw lens enhances the application flexibility, maximizing the advantage of the PT-DZ780 Series' quiet operation.

Mounting an optional ET-DLE030 onto the PT-DZ780 Series projector enables large-screen projection from a short distance, saving installation

space. Quiet operation with full brightness is a great PT-DZ780 Series advantage for applications such as museums, historical buildings, and lecture halls, where silence is critical.



Photo shows the PT-DZ780B with the ET-DLE030 mounted.

# Geometric Adjustment for Specially Shaped Screens

This function adjusts the image for projection onto spherical, cylindrical and other specially shaped screens. You can make the adjustment easily using only the remote control, with no external equipment needed. 4-Corner Adjustment and Keep Aspect Off functions also simplify fine adjustment.



#### Geometry Manager Pro Freeware (PT-DZ780)

The Geometry Manager Pro software offers a more flexible and complex geometric adjustment capability, and supports color matching and edge blending for multi-screen projection. It also makes adjustments for multiple projectors fast and easy over a network. Also, a computer can be used to operate this function,<sup>\*7</sup> and up to three sets of adjustments can be stored.

#### Optional ET-UK20 Upgrade Kit for Geometry Manager Pro (PT-DZ780)

Applying this kit to Geometry Manager Pro software enables creative masking using four lines and/or bitmap data, uniformity correction, and other useful functions.



#### Optional ET-CUK10<sup>\*8</sup> Auto Screen Adjustment Upgrade Kit (PT-DZ780)

This plug-in software for Geometry Manager Pro sets up multiple projectors automatically and simultaneously, greatly saving installation time and costs. It takes only three quick and simple steps. By using a camera\*<sup>9</sup> together with a PC connected to the projectors via a network, this software calibrates and adjusts multi-screen or curvedscreen projection. Adjustments include geometric adjustment, edge blending, color matching, stacking, brightness, and black level.

#### Multi-Screen Support System Seamlessly Connects Multiple Screens

The Multi-Screen Support System optimally adjusts multiple screens: Edge blending, Color matching and Digital image enlarging.

#### A Wide Selection of Optional Lenses

A wide variety of lenses add versatility and flexibility to projector installation. The lenses attach and detach with one-touch ease.

#### Art-Net\*10 Compatible

The PT-DZ780 Series projector is compatible with the Art-Net protocol for lighting management. Art-Net compatibility lets you connect the projector to the lighting console, and operate functions.

#### **More Valuable Features**

Full-HD ready WUXGA resolution (PT-DZ780).
 System Daylight View 2 for enhanced color perception.
 DICOM simulation mode.<sup>\*11</sup> • Rec. 709 mode for HDTV projection.
 Full 10-bit image processing.
 Waveform monitor function.
 Powered lens shift/zoom/focus.
 The unit can be rotated 360 degrees vertically.<sup>\*12</sup> • Backup Input Function<sup>\*13</sup> prevents downtime by using two inputs.
 Easy lamp replacement from the rear.
 Picture-in-picture function.<sup>\*14</sup> • SDI (SD-, HD-, and 3G-SDI) input terminal. (PT-DZ780 only)

Easy remote monitoring and control over a LAN.
 Crestron Connected<sup>™</sup> compatibility. 

 AMX

Device Discovery technology built in. • Wireless remote control with a maximum operating range of 30 m (98 ft). • Scheduling function.

Mechanical lens shutter.
Direct power off.
RoHS Directive compliant.
built-in closed caption decoder.

For details on features and specifications, visit our Projector Global Web Site: panasonic.net/avc/projector

#### **Optional Accessories**

Fixed-focus lens ET-DLE030, ET-DLE055

#### Zoom lens

ET-DLE085, ET-DLE150, ET-DLE250, ET-DLE350, ET-DLE450

#### Replacement lamp unit

ET-LAD70 (one bulb), ET-LAD70W (a set of two bulbs)

#### Ceiling mount bracket

- ET-PKD120H (for high ceilings) ET-PKD120S (for low ceilings)
- ET-PKD1304 (for high ceilings) ET-PKD130H (for high ceilings, 6-axis adjustment mechanism included) Recommended when used with the ET-DLE030.
- Attachment for ceiling mount bracket FT-PKD130B

#### Upgrade kit form Geometry Manager Pro ET-UK20

#### Auto Screen Adjustment upgrade kit ET-CUK10\*8

Digital Interface Box ET-YFB100G



DIGITAL LINK Switcher ET-YFB200G



★1 For the PT-DX820 only. ★2 As of April 2015, for a 1-chip DLP<sup>TM</sup> projector with the brightness of 7,000 Im or higher. \*3 When the Lamp Power is set to Normal. The usage environment affects the lamp replacement cycle. \*4 The operating temperature range is 0°C to 40°C (32°F to 104°F) when the fan control is set to High Altitude mode (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). Also, if the ambient temperature exceeds 40°C (104°F) (35°C (95°F) in High Altitude mode) when the projector is being used with Lamp Select set to Dual and Lamp Power set to High, the light output may be reduced approximately 20% to protect the projector. \*5 If the projector is to be operated continuously 24 hours a day / 7 days a week, use the dual-lamp optical system's alternating lamp opera-tion (lamp changer) function. The projector cannot be operated continuously 24 hours a day / 7 days a week in duallamp mode. Allow a minimum of two hours per week of nonoperation time per lamp if using the dual-lamp mode. \*6 When used together with an optional DIGITAL LINK Switcher ET-YFB200B and operated in Long Reach mode that is available only with the PT-DZ780/DW750/DX820 and ET-YFB200G. Long Reach mode is compatible up to 1080p signals. When used with other transmitter/switcher, signals can be transmitted for up to 100 m (328 ft). \*7 Advanced skills are necessary to use a computer to control geometric adjustment. Consult your dealer. \*8 Available for use world-wide except in the United States. Geometry Manager Pro software is required. \*9 Supported cameras are Nikon D5200/D5300 or successor models. \*10 Art-Net is a protocol for transmitting the lighting control protocol DMX512 over the Ethernet. **\*11** This product is not a medical instrument. Do not use it for actual medical diagnosis. \*12 To maintain the lamp performance when installing the unit facing downward, mount the enclosed Lamp Adaptor. \*13 Usable only with DVI-D primary input and HDMI secondary input, with a signal of the same format input to both. \*14 This function is not effective for some source combinations.

Specifications

Model		PT- <b>DZ780/DZ780L</b>	PT-DW750/DW750L	PT-DX820/DX820L									
ower supply		100–240 V AC, 9.0–4.0 A, 50/60 Hz											
ower consum	ption	790 W (810 VA at 240 V AC) (0.3 W when standby mode set to eco*1, 3 W when standby mode set to normal)											
DLP <sup>™</sup> chip	Panel size Display method Pixels	17.0 mm (0.67 inches) diagonal (16:10 aspect ratio) $DLP^{\rm vs}$ chip $\times$ 1, $DLP^{\rm vs}$ projection system 2,304,000 (1,920 $\times$ 1,200) pixels	16.5 mm (0.65 inches) diagonal (16:10 aspect ratio) DLP <sup>™</sup> chip × 1, DLP <sup>™</sup> projection system 1,024,000 (1,280 × 800) pixels	$\begin{array}{l} 17.8 \text{ mm } (0.7 \text{ inches}) \text{ diagonal } (4:3 \text{ aspect ratio}) \\ \text{DLP}^{\scriptscriptstyle 10} \text{ chip } \times 1, \text{DLP}^{\scriptscriptstyle 10} \text{ projection system} \\ 786,432 \ (1,024 \times 768) \text{ pixels} \end{array}$									
ens.	PT-DZ780/DW750/DX820	Powered zoom (throw ratio 1.7–2.4:1), powered focus F 1.7–1.9, f 25.6–35.7 mm	-1.9, f 25.6–35.7 mm										
	PT-DZ780L/DW750L/DX820L	Optional powered zoom/focus lenses and fixed-focus lens											
amp		310 W UHM lamp × 2, replacement cycle of up to 4,000 hours*2											
creen size (di	iagonal)	1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with th with the ET-DLE030, 16:10 aspect ratio	1.27–15.24 m (50–600 in), 1.27–5.08 m (50–200 in) with the ET-DLE055, 2.54–8.89 m (100–350 in) with the ET-DLE030, 4:3 aspect ratio										
Brightness*3		7,000 lm (dual-lamp, LAMP POWER: NORMAL)	8,200 lm (dual-lamp, LAMP MODE: NORMAL)										
enter-to-corn	er uniformity*3	90 %											
ontrast*3		3,000:1 (full on/full off)	2,400:1 (full on/full off, when CONTRAST MODE Set to ON)										
lesolution		1,920 × 1,200 pixels	1,280 $\times$ 800 pixels (Input signals that exceed this resolution will be converted to 1,280 $\times$ 800 pixels.)	$1,024 \times 768$ pixels (Input signals that exceed this resolution will be converted to $1,024 \times 768$ pixels.)									
ptical axis sh	ift*4	Vertical +50%*6, -16%; horizontal +30%*5, -10%, powered	Vertical +60%, -16%; horizontal +30%*5, -10%, powered	Vertical +50%*6, -13%; horizontal +30%*5, -10%, power									
eystone corre	ection range	Vertical ±40°*7, horizontal ±15°*8											
	ection range with the upgrade kit ET-UK20	Vertical $\pm 45^{\circ *9/11}$ , horizontal $\pm 40^{\circ *10/11}$	-										
nstallation		Ceiling/floor, front/rear											
erminals	SDI IN	BNC × 1 (3G/HD/SD-SDI)	-										
	HDMI IN DVI-D IN RGB 1 IN RGB 2 IN SERIAL IN SERIAL OUT REMOTE 1 IN REMOTE 1 OUT REMOTE 2 IN LAN / DIGITAL LINK USB	<ul> <li>HDMI 19-pin × 1 (Deep Color, compatible with HDCP)</li> <li>DVI-D 24-pin × 1 (DVI 1.0 compliant, compatible with HDCP, compatible with single link only)</li> <li>BNC × 5 (R6BYP6Pa/V6cGa/VC/video × 1)</li> <li>D-Sub B9-pin (female) × 1 for external control (RS-232C compliant)</li> <li>D-sub 9-pin (female) × 1 for link control</li> <li>M3 × 1 for wired remote control</li> <li>M3 × 1 for link control (for wired remote control)</li> <li>D-sub 9-pin (female) × 1 for external control (parallel)</li> <li>RJ-45 × 1 (for network and D)GITAL LINK (video/network/serial control) connection, 100Base-TX, compatible with Art-Net, compliant with PJLink™, Deep Color, compatible with HDCP)</li> </ul>											
Cabinet materi	ials	Molded plastic											
imensions (W $\times$ H $\times$ D)	PT-DZ780/DW750/DX820 PT-DZ780L/DW750L/DX820L	$\frac{498 \times 175^{*12} \times 521 \text{ mm} (19-19/32 \times 6-7/8^{*11} \times 20-1/2 \text{ in})(\text{with supplied lens})}{498 \times 175^{*12} \times 508 \text{ mm} (19-19/32 \times 6-7/8^{*11} \times 20 \text{ in}) (\text{without lens})}$											
Veight* <sup>13</sup>	PT-DZ780/DW750/DX820 PT-DZ780L/DW750L/DX820L	Approximately 17.8 kg (39.2 lbs) (with supplied lens) Approximately 17.0 kg (37.5 lbs) (without lens)											
peration nois	e*3	30 dB (lamp power: normal), 28 dB (lamp power: eco)											
perating envi	ronment	Operating temperature: 0–45 °C (32–113 °F) <sup>+14</sup> , operating humidity: 10%–80% (no condensation)											

\*1 When the standards work is set to ECO, network functions such as power on over the LAN will not operate. Also, only certain commands can be received for external control using the serial terminal.
\*2 When the standards. \*4 Optical axis shift is fixed with the ET-DLE030 and cannot be operated with the ET-DLE055. \*5 +28% with the ET-DLE085. \*6 +45% with the ET-DLE085. \*7 ±22° with the ET-DLE085/DLE055. \*10 ±15° with the ET-DLE030.\*8 ±40° with the ET-DLE085/DLE250/supplied lens and ±22° with the ET-DLE085/DLE055. \*11 up to a total of ±55° during simultaneous horizontal and vertical correction. \*12 With legs at shortest position. \*13 Average value. May differ depending on models. \*14 The operating temperature range is 0 °C to 40° C (32° F to 104°F) (35° C) in High ALTITUDE (for altitudes from 1,400 m to 2,700 m (4,593 ft to 8,858 ft) above sea level). Also, if the antimute the ended when the projector is being used with LAMP SELECT Set to NORMAL, the light output may be reduced approximately 20% to protect the projector.

#### **Projection Distance**

PT- <b>DZ78</b>	PT- <b>DZ780</b> (16:10 aspect ratio)							PT- <b>DW750</b> (16:10 aspect ratio)						PT-DX820 (4:3 aspect ratio)							
Diagonal	Throw distance						Throw distance							Throw distance							
image size	ET-DLE085 ET-DLE080	ET-DLE150	Supplied	ET-DLE250	ET-DLE350	ET-DLE450 E	T-DLE055	ET-DLE085 ET-DLE080	ET-DLE150	Supplied	ET-DLE250	ET-DLE350	ET-DLE450 E	T-DLE055	ET-DLE085 ET-DLE080	ET-DLE150	Supplied	ET-DLE250	ET-DLE350	ET-DLE450 E	ET-DLE055
[Throw ratio]	[0.8–1.0:1] min. max.	[1.3–1.9:1] min. max.	[1.7–2.4:1] min. max.	[2.3-3.6:1] min. max.	[3.6–5.4:1] min. max.	[5.4–8.6:1] min. max.	[0.8:1]	[0.8-1.0:1] min. max.	[1.4–2.0:1] min. max.	[1.8–2.5:1] min. max.	[2.4-3.8:1] min. max.	[3.8–5.7:1] min. max.	[5.6–9.0:1] min. max.	[0.8:1]	[0.8-1.0:1] min. max.	[1.3–2.0:1] min. max.	[1.8–2.5:1] min. max.	[2.4–3.7:1] min. max.	[3.7–5.6:1] min. max.	[5.5–8.9:1] min. max.	[0.8:1]
1.27 50°	0.82-1.04	1.38-2.01	1.82-2.57	2.42-3.87	3.80-5.81	5.66-9.12	0.83	0.87-1.09	1.45-2.12	1.91-2.70	2.54-4.06	4.00-6.11	5.96-9.59	0.87	0.81-1.01	1.34-1.97	1.78-2.51	2.36-3.78	3.71-5.68	5.52-8.91 18.1-29.2	0.81
2.03 80°	<u>2.7-3.4</u> 1.35-1.68 4.4-5.5	2.23-3.25 7.3-10.7	2.95-4.16 9.7-13.6	3.92-6.23 12.8-20.4	6.16-9.38 20.2-30.8	9.23-14.78 30.3-48.5	1.35 4.4	<u>2.8-3.6</u> 1.42-1.77 4.7-5.8	2.35-3.42	3.11-4.37 10.2-14.3	4.12-6.55	6.48-9.86 21.3-32.3	9.71-15.53 31.9-51.0	1.42 4.7	<u>1.32-1.64</u> <u>4.3-5.4</u>	2.18-3.18 7.2-10.4	2.89-4.06 9.5-13.3	3.83-6.09 12.6-20.0	6.02-9.17 19.8-30.1	9.02-14.44 29.6-47.4	
<b>2.54</b> 100 <sup></sup>	1.70-2.11 5.6-6.9	2.81-4.08 9.2-13.4	3.71-5.21 12.2-17.1	4.92-7.81 16.1-25.6	7.74-11.76 25.4-38.6	11.62-18.55 38.1-60.8	1.70 <u>5.6</u>	1.78-2.22 5.9-7.3	2.95-4.28 9.7-14.0	3.90-5.48 12.8-18.0	5.16-8.20 16.9-26.9	8.13-12.36 26.7-40.5	12.21-19.49 40.1-63.9	1.79 <u>5.9</u>	1.66-2.07 5.4-6.8	2.74-3.98 9.0-13.1	3.63-5.10 11.9-16.7	4.80-7.63 15.8-25.0	7.56-11.50 24.8-37.7	11.35–18.12 37.2–59.5	1.66 5.5
3.81 150"	2.57-3.19 <u>8.4-10.5</u>	4.24-6.14 13.9-20.1	5.60-7.86 18.4-25.8	7.41-11.75 24.3-38.6	11.68-17.71 38.3-58.1	17.58-27.97 57.7-91.8	2.58 <u>8.5</u>	2.70-3.36 8.9-11.0	4.45-6.45 14.6-21.2	5.89-8.25 19.3-27.1	7.79-12.35 25.5-40.5	12.27-18.61 40.2-61.0	18.47-29.38 60.6-96.4	2.71 <u>8.9</u>	2.51-3.12 8.2-10.2	4.14-6.00 13.6-19.7	5.48-7.68 18.0-25.2	7.24-11.49 23.8-37.7	11.41–17.31 37.4–56.8	17.18–27.33 56.4–89.7	2.52 8.3
5.08 200°	3.44-4.27 11.3-14.0	5.67-8.20 18.6-26.9	7.50-10.50 24.6-34.5	9.91-15.70 32.5-51.5	15.61-23.66 51.2-77.6	23.54-37.39 77.2-122.7	3.45 11.3	3.61-4.49 11.9-14.7	5.95-8.61 19.5-28.3	7.88-11.03 25.8-36.2	10.41-16.49 34.2-54.1	16.40-24.85 53.8-81.5	24.73-39.28 81.1-128.9	3.63 11.9	3.36-4.18 11.0-13.7	5.54-8.02 18.2-26.3	7.33-10.26 24.0-33.7	9.69-15.34 31.8-50.3	15.26-23.13 50.1-75.9	23.00-36.54 75.5-119.9	
7.62 300°	5.18-6.43 17.0-21.1	8.53-12.33 28.0-40.4	11.28-15.79 37.0-51.8	14.91-23.59 48.9-77.4	23.49-35.56 77.1-116.7	35.46-56.24 116.3-184.5		5.45-6.76 17.9-22.2	8.95-12.95 29.4-42.5	11.85-16.58 38.9-54.4	15.65-24.77 51.4-81.3	24.67-37.34 80.9-122.5	37.25-59.06 122.2-193.8	_	5.07-6.29 16.6-20.6	8.33-12.05 27.3-39.5	11.03-15.43 36.2-50.6	14.57-23.06 47.8-75.6	22.96-34.76 75.3-114.0	34.66-54.97 113.7-180.3	
10.16 400"	6.93-8.59 22.7-28.2	11.39-16.45 37.4-54.0	15.07-21.07 49.4-69.1	19.90-31.48 65.3-103.3	31.36-47.46 102.9-155.7	47.38-75.08 155.4-246.3	2	7.28-9.02 23.9-29.6	11.96-17.28 39.2-56.7	15.83-22.13 51.9-72.6	20.90-33.05 68.6-108.4	32.94-49.84 108.1-163.5	49.76-78.85 163.3-258.7	2	6.77-8.40 22.2-27.5	11.13-16.08 36.5-52.8	14.73-20.60 48.3-67.6	19.45-30.77 63.8-100.9	30.65-46.39 100.6-152.2	46.31-73.39 151.9-240.8	
15.24 600°	10.42-12.91 34.2-42.3					71.22-112.7 233.7-370.0		10.94-13.55 35.9-44.5	17.96-25.94 58.9-85.1				74.80-118.42 245.4-388.5					29.22-46.19 95.9-151.5		69.61-110.23 228.4-361.6	
																				un	nit: meters

For details on specifications and projection distances, visit our Projector Global Web Site: panasonic.net/avc/projector



For more information about Panasonic projectors, please visit: Projector Global Web Site – panasonic.net/avc/projector Facebook – www.facebook.com/panasonicprojector YouTube – www.youtube.com/user/PanasonicProjector

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Factories of Visual System Business Division have received ISO 14001:2004— the Environmental Management System certification (except for third parties' peripherals).

All information included here is valid as of April 2015. PT-DZ780G1 Printed in Japan.