



✓ Third party verified

Environmental Product Declaration

In Conformance with
ISO14025 | ISO14040 | ISO14044



CANON Inc.

imageFORMULA R40II



Registration number

SuMPO-EPD-2603-127-1

Verification date

2026/3/31

Publication date

2026/6/22

Expiration date

2031/3/30

EPD type

Single Product EPD

* First publication date

Additional standards in conformance

None

EPD can be updated or withdrawn during the validity period. To confirm the validity of this EPD, check the following website:
<https://ecoleaf-label.jp/epd/search>

Environmental Product Declaration for **imageFORMULA R40II**

● General Information

> Programme

Programme name	SuMPO EPD Japan
Programme operator	Sustainable Management Promotion Organization (SuMPO)
Address	KANDA SQUARE GATE 4F, 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo, 101-0047, Japan
Website	https://ecoleaf-label.jp

> GPI and PCR

GPI	SuMPO EPD Japan General Program Instructions v.2.1.1
PCR name	Imaging input and/or output equipment products v.9.0.0
PCR registration number	SuMPO-PCR-02001-9-0-0
PCR publication date	2025/10/17
PCR review panel chair	Masayuki Kanzaki(Sustainable Management Promotion Organization)
PCR valid until	2030/10/16
PCR issuer	Sustainable Management Promotion Organization (SuMPO)

> Verification

Verification Type	Third-party verification in conformance with ISO14025		
	☐ Internal	☒ External	
Verifier	☒ Third-party verification by individual verifier	☐ Third-party verification by verification body	☐ Third-party verification by system certification
	Akiko Furuya(E&E Solutions Inc.)		

> Standards

Standards in conformance with;	☒ ISO14040:2006	☒ ISO14044:2006	☐ ISO14067:2018
	☒ ISO14025:2006	☐ ISO21930:2007	☐ ISO21930:2017
	☐ EN15804+A2	☐ EN50693:2019	☐ ISO/IEC63366:2025

EPD owner is responsible for the information contained in the EPD and for environmental claims related to the information. For any inquiries or requests regarding the content of the EPD, please contact the EPD owner.

EPDs are comparable only if they comply with this document, use the same sub-PCR where applicable, include all relevant information and are based on equivalent scenarios. Comparability of EPDs is limited to those applying a functional unit.

The LCIA results are relative expressions and do not predict impacts on category endpoints, the exceedance of thresholds, safety margins or risks.

When using weighted averages for calculation, the life cycle impact assessment results, life cycle inventory analysis-related information, waste-related information, and environmental information on output flows do not correspond to information about a specific product.

● EPD Owner's Information

Name of company and dept.	Canon Inc.
Address	3 Shimomaruko, Ota-ku, Tokyo 146-8501 -30-2
Contact	03-3758-2111 (Representative)
LCA practitioner	Kuniyuki Iizuka, Associate Staff Engineer, IMS Products Engineering Dept., Canon Electronics Inc.
Company description	A Japanese precision equipment manufacturer that manufactures cameras, video equipment and other imaging equipment, printers, copiers and other office equipment, digital multimedia equipment, and semiconductor and display manufacturing equipment (Exposure apparatus and vapor deposition apparatus).

●Product Information

Product name		imageFORMULA R40II	
Product /model number		R40II (Product Code: 45262)	
Product sepcification	Mass	5.12kg	Conversion factor 5.12 kg/unit
	Function	Desktop seat through scanner	
	Applications	Document Scanner	
	TS*	Reading speed: single-sided 45ppm/double-sided 90ipm(Monochrome, 200dpi, A4)	
Service life	Service life	5 years	
	In-use conditions	Assuming the following conditions: It is connected to an electric power source such as an outlet and the power of the scanner main body is turned off except for the time of use. •Duration of use: 8 hours/day, 240 days/year, 5 years •Number of scans: 8,000 pages/day (800 pages × 10 times), Number of transitions to power saving status: 10 times/day	
	reference	The assumed duration of use of the scanner as described in Table 8 of PCR 4.2 was used.	
Manufacturing site(s)		Misato Plant (1611 Oaza Amakasu, Misato-machi, Kodama-gun, Saitama Prefecture)	
Product description		A4 desktop scanner for high-speed scanning, retractable paper tray and monochrome LCD with icon display. 1. Product Category: Sheet Fed Scanner (With platen, for business use) 2. Reading speed: single-sided 45ppm/double-sided 90ipm(Monochrome 2 value, 200dpi, A4) 3. Maximum scan document size: A4 4. Reading resolution: 600dpi 5. Reading system: CIS, image element: CMOS	
Website		—	

* TS: technical specifications,

●Product Content

Product components	Propotion (%)	Mass (unit)	
ordinary steel	14	4.8E-01	kg
SUS	8.2	2.7E-01	kg
aluminium	0.010	3.2E-04	kg
Other Metals	5.5	1.8E-01	kg
Plastic	49	1.6E+00	kg
Rubber	1.9	6.2E-02	kg
Glass	0.47	1.6E-02	kg
Paper and wood	0.81	2.7E-02	kg
Mounting circuit board	2.6	8.6E-02	kg
Other	17	5.8E-01	kg
Packaging materials	Propotion (%)	Mass (unit)	
Paper and wood	96.3	1.7E+00	kg
Plastic	3.73	6.7E-02	kg

●Biogenic Carbon Content

Item	Content (kg-C)	Content (kg-CO ₂ eq)
Biogenic carbon content per product	—	—
Biogenic carbon content in packaging	—	—

● LCA-related Information

> EPD Type Information

EPD type	Product type	☒ Single product EPD	☐ Multiple products EPD	☐ Industry-wide EPD
	Site type	☒ Single site	☐ Multiple sites	
	Value	☒ Specific	☐ Average	☐ Representative ☐ Worst case
Geographical coverage		Global		
Description of representativeness for multiple-products/sites EPD		—		
Description of variation for multiple-products/sites EPD		—		
Description of products covered in the multiple products EPD		—		

> LCA Information

Declared unit	1 unit		
Mass per declared unit (Conversion factor to mass)	5.12 kg/unit		
Reference flow (number of products required to fulfil the function)	—		
System boundary	☐ Cradle-to Gate	☐ Cradle-to-Gate with options	☒ Cradle-to-Grave
LCA software	MiLCAv3.1		
LCI database	IDEAv3.1		
Characterization model	Climate change: IPCC Fifth Assessment Report (IPCC, 2013); Other impact areas: LIME2		
Use of other background data	None		
Secondary data quality	The calculation was carried out using the data which satisfied the secondary data quality specified in GPI.		
Primary data collection sites	Misato Plant		
Primary data collection period	January 1, 2024 – December 31, 2024		
Biogenic carbon	☒ 0/0 approach	☐ -1/+1 approach	
Information about electricity	Use	☒ Average consumption mix	☐ Others
	Type	—	
	Purchase date	—	
	Issuing body	—	

> Life Cycle Stages

Raw materials acquisition stage	Production stage	Distribution stage		Use stage	End of life stage	
		Transportation	Installation		Removal	Final processing
☒	☒	☒	—	☒	—	☒

■ : declared stage — : stage not declared

Environmental Product Declaration for imageFORMULA R40II

> Allocation

As for the amount of electricity used in the assembly, inspection, and packaging processes of products at the manufacturing stage, since multiple products are produced at the same time at the site, it is difficult to collect data only on the amount of electricity used in the production of the target products. Therefore, the allocation was made.

The amount of electricity used in the manufacturing stage was allocated by the ratio of the time required to produce one target product to the time required to produce all products produced at the site in the same period, relative to the total amount of electricity used at the site during the specified period.

> Cut-off rules

The cut-off points listed in 4.5.1 of Product Category Rule (PCR) Certification No. SuMPO-PCR-02001-9 – 0 – 0 were:

- Load of packaging and transportation materials used to procure inputs from outside
- secondary material load
- Product storage, warehousing during transport, sales and installation process loads
- Burden of proper disposal of waste at the raw material procurement stage
- Load related to parts assembly

> System Boundary

Based on the Product Category Rule (PCR) Certification No. SuMPO-PCR-02001-9 – 0 – 0, the following 5 life cycle stages were used.

- raw material procurement stage
- manufacturing stage
- distribution stage
- use and maintenance stage
- final stage

The temporal system boundary is 100 years.

Establishment of the distribution stage and removal of the final stage were excluded from the calculation.

In the handling of waste discharged from the product system, the system boundary includes the point up to the completion of waste treatment (incineration and landfill of waste).

> Scenario

Conform to Product Category Rules (PCR) Certification No. SuMPO-PCR-02001-9-0 0.

The transport of raw materials used a PCR scenario.

The warehouse-to-customer transport used a PCR scenario.

For Europe, Latin America, and Asia, the lifetime power consumption of products at the use and maintenance stage is assumed to be 100% for countries with the highest cumulative sales volume of 50% or more in each country in each region.

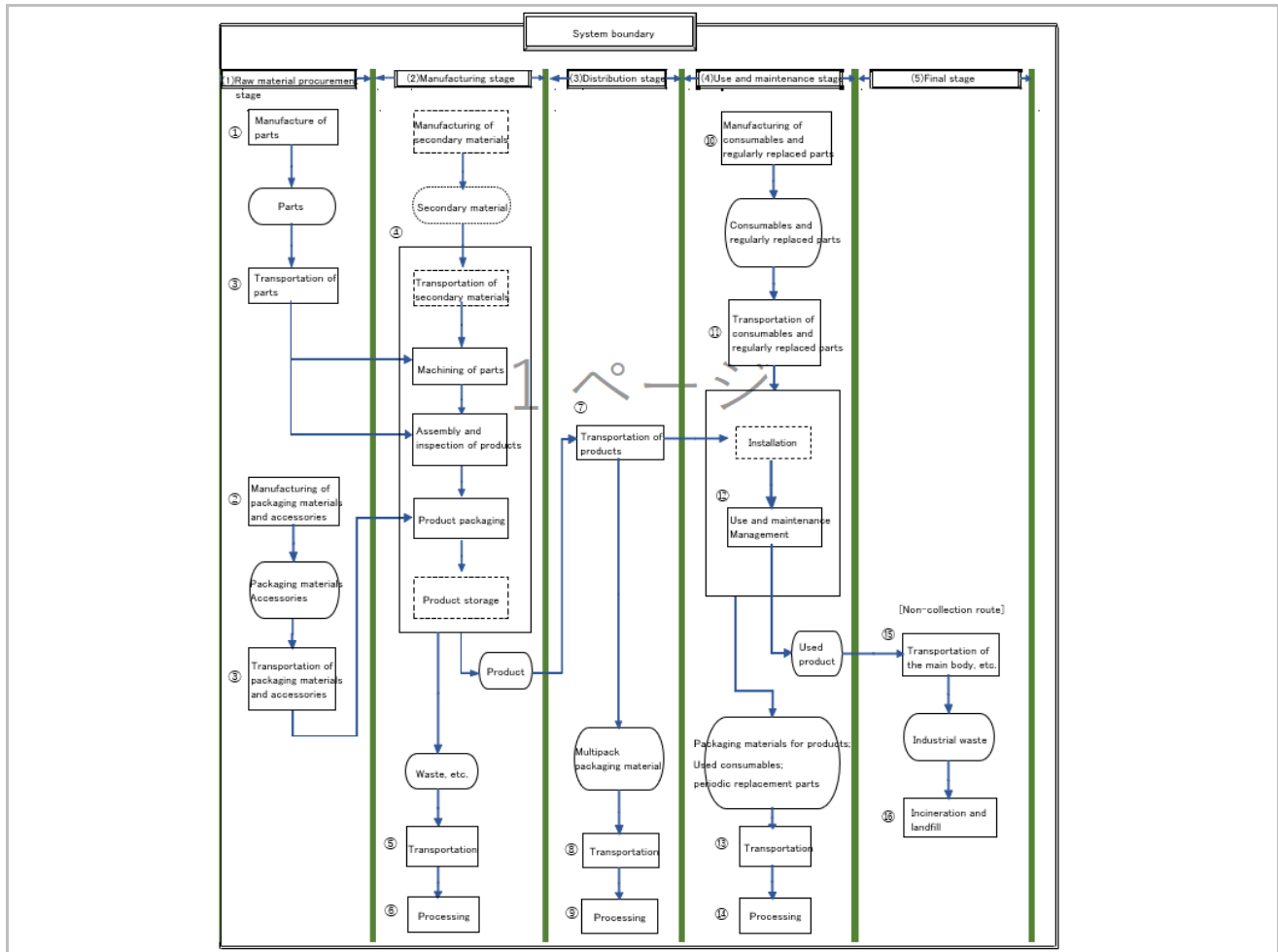
In addition, the disposal stage is calculated based on PCR, and after use products such as plastics that can be incinerated are incinerated, and metals that cannot be incinerated are buried.

> Electricity Modelling

Calculations were made at the manufacturing stage using Japan's average grid power data in 2018.

In the use phase, the basic unit of public electricity in each country of MiLCAv3.1 was used.

> Life Cycle Sytem Diagram



Environmental Product Declaration for **imageFORMULA R40II**● **LCA Result**> **LCIA Indicators**

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
GWP	kg-CO ₂ eq	4.47E+01	5.00E-01	4.25E+00	8.34E+01	2.14E+00
Ozone layer depletion	kg-CFC-11eq	1.22E-05	1.21E-07	7.55E-08	8.53E-06	5.24E-08
Acidification	kg-SO ₂ eq	5.47E-02	4.91E-04	1.21E-02	3.29E-01	3.31E-03
Urban air pollution	kg-SO ₂ eq	4.04E-02	3.75E-04	4.56E-03	2.61E-01	1.87E-03
Photochemical oxidants	kg-C ₂ H ₄ eq	2.05E-03	9.63E-06	7.05E-05	1.93E-03	4.91E-06
Hazardous chem. - carcinogenic	kg-C ₆ H ₆ eq	9.99E-02	1.17E-05	1.77E-04	4.52E-02	9.46E-04
Hazardous chem. - chronic	kg-C ₆ H ₆ eq	1.02E-03	1.49E-06	1.29E-05	3.40E-04	1.23E-06
Aquatic ecotoxicity	kg-C ₆ H ₆ eq	3.16E-01	9.75E-04	6.09E-04	6.68E-02	4.23E-04
Terrestrial ecotoxicity	kg-C ₆ H ₆ eq	5.74E+00	2.37E-02	1.47E-02	1.38E+00	9.99E-03
Eutrophication	kg-PO ₄ ³⁻ eq	3.07E-03	3.04E-08	4.41E-08	1.52E-03	1.35E-06
Land use - maintenance	m ² /year	1.11E+00	2.47E-03	4.26E-01	1.62E+00	3.95E-03
Land use - modification	m ²	1.55E-02	6.85E-05	8.54E-03	2.81E-02	8.60E-05
Resource consumption	kg-Sbeq	2.16E-02	3.39E-06	1.75E-05	1.89E-03	2.06E-06

> **LCI**

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
Use of non-renewable resources	kg	4.08E+00	6.66E-03	2.21E-02	2.11E+00	1.14E-01
Use of non-renewable energy	kg	1.73E+01	1.88E-01	1.25E+00	3.26E+01	1.31E-01
Use of non-renewable energy	MJ	7.24E+02	7.75E+00	5.56E+01	1.36E+03	5.46E+00
Use of renewable resources	kg	6.39E+00	5.35E-04	4.53E-04	1.97E+00	9.71E-04
Use of renewable energy	MJ	1.18E+02	3.19E+00	1.99E+00	3.08E+02	1.34E+00
Consumption of freshwater resources	m ³	6.45E-01	7.18E-05	1.54E-04	5.35E-01	2.68E-04

> **Waste Indicators**

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
hazardous waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
non-hazardous waste disposed	kg	4.37E-01	8.45E-05	1.97E-03	5.70E-01	1.62E+00
Municipal waste, landfill	kg	1.64E-05	2.32E-14	2.73E-14	2.27E-09	9.62E-14
Industrial waste, landfill	kg	4.37E-01	8.45E-05	1.97E-03	5.70E-01	1.62E+00

*It indicates the amount of waste generated throughout the lifecycle.

> **Output Flow Indicators**

		Raw materials acquisition stage	Production stage	Distribution stage	Use stage	End of life stage
Components for reuse	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy from waste (energy recovery efficiency ≥ 60%)	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Incineration of waste (energy recovery efficiency < 60%)	Waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Recovered energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Waste disposed in landfill and energy recovered from landfill gas	Waste disposed	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Recovered energy	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Environmental Product Declaration for imageFORMULA R40II

> Description of LCA Results

- Product destinations assumed at the time of calculation: North America, Latin America, Europe, Asia
 - Calculation method of use and maintenance stage
 - Daily scan: 8000 images per day
 - Number of working days in month: 20 days/month
 - Number of working days in year: 240
 - Expected period of use: 5 years
 - Total scanned images: 9.6 million per 5 years
- The load of the image output medium in the use stage is not counted.

- Scenario used for load calculation: sheet fed scanner
Category: Medium1
The calculation is based on the scenario: using 45ppm
(Monochrome, 200dpi, A4, single-sided mode).

*In calculating the amount of raw materials used, we used our company data. However, because it is difficult to collect data on hundreds of parts, we used general data at the time of raw material production.

Therefore, it may not reflect the unique features of this product. Also, regarding lifetime power consumption of products in use and maintenance stage, for Europe, Latin America and Asia, we calculated the usage ratio by assuming 100% for countries with the highest cumulative sales volume of 50% or more in each country in each region. As a result, the calculated results may differ from the actual power consumption. For the above reasons, these results should be considered approximate.

● Additional Environmental Information

> Additional Environmental Information not related to LCA

Compliant with the RoHS Directive, which bans the use of 10 specific chemical substances.
This product is assembled and manufactured at an ISO14001 certified factory.

> Information on Hazardous Substances

Hazardous materials name	CAS No.	Standards or regulations
—	—	—
—	—	—
—	—	—

● Definitions of Terms

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● References

- ISO14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures
- ISO14040:2006 Environmental management - Life Cycle Assessment - Principles and framework
- ISO14044:2006 Environmental management - Life Cycle Assessment - Requirements and guidelines

● Version History

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