



Monochrome MFD

ECOSYS  
MA3500x(US)

KYOCERA Document Solutions Inc.

## Functional unit

Per unit of product

## System boundary

■ final products      □ intermediate products

Raw material acquisition-Production-Distribution-  
Use & maintenance-End-of-Life

## Main specifications of the product

Model name : Monochrome MFD  
ECOSYS MA3500x(US)  
Making Technology : Electrophotographic Printer (EP)  
Printng Speed: Monochrome 35 pages per minute in A4  
Prting paper : Maximum A4R (Legal)  
Duplex function: Standard  
ADF: Standard  
Copy / Print / Scan / FAX (FAX: optional)

## Company Information

KYOCERA Document Solutions Inc.  
Quality Assurance Division Reliability Assurance Section 21  
TEL : 06-6764-3764  
<https://www.kyoceradocumentsolutions.co.jp>

|                              |                                              |
|------------------------------|----------------------------------------------|
| Registration#                | JR-AI-25121E                                 |
| PCR number                   | PA-590000-AI-08                              |
| PCR name                     | Imaging input and/or output equipment        |
| Publication date             | 27 August 2025                               |
| Verification date            | 8 August 2025                                |
| Verification method          | System certificaion                          |
| Verification#                | JV-AI-25121E                                 |
| Expiration date              | 8/7/2030                                     |
| PCR review was conducted by: |                                              |
| Approval date                | 1 September 2023                             |
| PCR review                   | Masayuki Kanzaki                             |
| panel chair                  | Sustanable Management Promotion Organization |

## Third party verifier\*

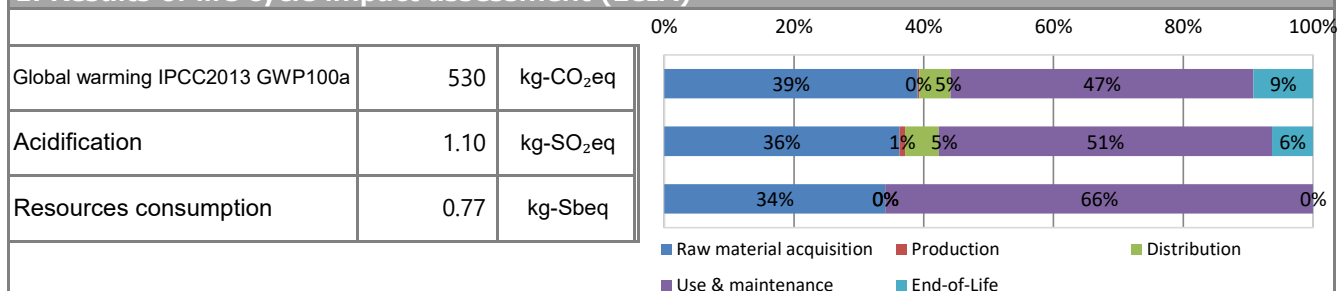
Hiroyuki Uchida

Independent verification of data & declaration in accordance  
with ISO14025

☐ internal      ☒ external

\*Auditor's name is stated if system certification has been performed.

## 1. Results of life cycle impact assessment (LCIA)



| Parameter                       | stage | Unit                                | Total   | Raw material acquisition | Production | Distribution | Use & maintenance | End-of-Life |
|---------------------------------|-------|-------------------------------------|---------|--------------------------|------------|--------------|-------------------|-------------|
| Global warming IPCC2013 GWP100a |       | kg-CO <sub>2</sub> eq               | 5.3E+02 | 2.1E+02                  | 1.2E+00    | 2.6E+01      | 2.5E+02           | 4.9E+01     |
| Ozone layer destruction         |       | kg-CFC-11eq                         | 3.2E-05 | 1.5E-05                  | 1.7E-09    | 3.2E-10      | 1.6E-05           | 1.1E-06     |
| Acidification                   |       | kg-SO <sub>2</sub> eq               | 1.1E+00 | 3.8E-01                  | 9.2E-03    | 5.4E-02      | 5.4E-01           | 6.7E-02     |
| Photochemical ozone             |       | kg-C <sub>2</sub> H <sub>4</sub> eq | 7.9E-03 | 4.2E-03                  | 1.6E-06    | 1.3E-04      | 3.4E-03           | 1.6E-04     |
| Eutrophication                  |       | kg-PO <sub>4</sub> <sup>3-</sup> eq | 2.8E-02 | 7.8E-03                  | 6.5E-05    | 2.6E-10      | 2.1E-02           | 2.7E-05     |
| Resources consumption           |       | kg-Sbeq                             | 7.7E-01 | 2.6E-01                  | 3.0E-06    | 1.1E-04      | 5.1E-01           | 7.6E-05     |

## 2. Life cycle inventory analysis (LCI)

| Parameter                        | Value   | Unit |
|----------------------------------|---------|------|
| Non-renewable material resources | 2.7E+01 | kg   |
| Non-renewable energy resources   | 8.4E+03 | MJ   |
| Renewable material resources     | 1.1E+02 | kg   |
| Renewable primary energy         | 5.8E+02 | MJ   |

## 3. Material composition

| Material                | Value   | Unit |
|-------------------------|---------|------|
| Steel                   | 6.5E+00 | kg   |
| SUS                     | 3.8E-01 | kg   |
| Cu                      | 6.3E-01 | kg   |
| Al                      | 2.7E+00 | kg   |
| Other metal             | 3.4E-02 | kg   |
| Thermoplastics resin    | 1.0E+01 | kg   |
| Thermosetting resin     | 5.8E-02 | kg   |
| Rubber                  | 4.0E-02 | kg   |
| Paper                   | 5.0E+00 | kg   |
| Assembled circuit board | 9.4E-01 | kg   |
| Medium-sized motor      | 6.1E-01 | kg   |
| Glass                   | 1.4E+00 | kg   |
| Wood                    | 1.9E-03 | kg   |

## 5. Additional explanation

- Product destination: North America
- Calculation method of use stage (scenario)
  - ① Expected usage period: five years
  - ② Estimated number of sheets used:  
Monocrome 182,400
  - ③ The impact of printing paper is not included
- Products selected in the scenario used  
for inventory calculation :  
Copier, Printer and Multifunction device (EP)
- Conformed to the International  
ENERGY STAR® Ver3.2 Program
- Consumables will be shipped directly from the factory  
to the country of sale separately from the product body  
and all of them are accounted for in the use and  
maintenance phase.



SuMPO EPD  
Type III Environmental Declaration (EPD)

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization  
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan

Registration number : JR-AI-25121E

<https://ecoleaf-label.jp/>

#### 6-1. Supplementary environmental information

- Conformed to the International ENERGY STAR® Program
- Manufactured at ISO14001 certified factories.
- Halogenated flame retardants are not used in Plastic housing and outer package.

#### 7. Assumptions of secondary data used

IDEA v3.1.0 and Japan EPD Program by SuMPO Registry data v1.16

#### 8. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.  
(Reference URL : <https://ecoleaf-label.jp/regulation/>)

Registration number : JR-AI-25121E