FlexScan[®] EV3240X

LCD MONITOR



The 31.5-inch FlexScan EV3240X, frameless monitor feature 4K UHD resolution (3840 x 2160 pixels) and is equipped with USB Type-C connectivity for supporting streamlined viewing and operation in the modern workspace.



The EIZO Group is aware that one of our key responsibilities is to conduct business taking the environment into consideration. We strive to contribute to the sustainable development of our society by being conscious of the impact our business has on the environment.

In product development, we endeavor to meet the legal requirement and standards as well as to enhance the environmentally sound quality of our products including compliance with the legal requirement and standards, industry trends and social conditions.

In addition, we conduct product environmental assessments in accordance with our own Environmental Compliance Standards to measure the environmental soundness of products.





FlexScan EV3240X LCD Monitor

According to ISO 14025

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address



the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

PROGRAM OPERATOR	UL Solutions		
DECLARATION HOLDER	EIZO Corporation		
DECLARATION NUMBER	4790850977.103.1		
DECLARED PRODUCT	FlexScan EV3240X LCD Monitor		
REFERENCE PCR	Common Guideline for Energy Using Products (2017-3)/EPD 004.MONITOR (2013/00/201309). Environmental Declaration of Products_Product Category Rules(PCR) for Monitor by Minister of Environment, Korea		
DATE OF ISSUE	August 1, 2023		
PERIOD OF VALIDITY	5 years		
	Product definition and information at	oout building physics	
	Information about basic material and the material's origin		
	Description of the product's manufacture		
CONTENTS OF THE DECLARATION	Indication of product processing		
DECLARATION	Information about the in-use condition	ormation about the in-use conditions	
	Life cycle assessment results		
	Testing results and verifications	•	
The PCR review was conducted	ed by:	PCR Review Panel	
This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories		Cooper McCollum	
☐ INTERNAL		Cooper McCollum, UL Solutions	
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:		Jane A. Rullert	
	-	James Mellertine, Thrive ESG	



FlexScan EV3240X LCD Monitor

According to ISO 14025

Product information

Product description

The 31.5-inch FlexScan EV3240X, frameless monitor feature 4K UHD resolution (3840 x 2160 pixels) and is equipped with USB Type-C connectivity for supporting streamlined viewing and operation in the modern workspace. The monitor achieves exemplary ergonomics, energy-savings, and sustainability to lessen impact on the environment.



Application

This product is suited to general purposes like creating documents, viewing multimedia content.

Product Environmental Information

EV2740X was certified EPA ENERGY STAR Ver.8.0, TCO Certified Generation 9, EPEAT(IEEE1680.1-2018), TUV/Ergonomie, TUV/Low blue light content, TUV/Flicker Free, RoHS, WEEE and China RoHS.

Company Environmental Activities

Although global environmental standards such as TCO Certified and EPEAT are not legal regulations, EIZO has actively participated and adapted from the beginning of the standard to improve the environmental performance of our products.





FlexScan EV3240X LCD Monitor

According to ISO 14025

Technical Data

The below table shows the decpription of product technical specification.

Table 1: Technical specification

Panel IPS Backlight LED Size 31.5" / 80.0 cm Native Resolution 3840 x 2160 (16:9 aspect ratio) Viewable Image Size (H x V) 697.3 x 392.2 mm Pixel Pitch 0.182 x 0.182 mm Display Colors 16.77 million Viewing Angles (H / V, typical) 178° / 178° Brightness (typical) 350 cd/m² Response Time (typical) 5ms (gray-to-gray Video Signals Input Terminals USB Type-C (DisplayPort Alt Mode, HDCP 2.3/1.3), DDMI (HDCP 2.3/1.3), DDMI (HDCP 2.3/1.4) x 2 USB USB Type-C (DisplayPort Alt Mode, HDCP 2.3/1.4) x 2 USB USB Type-C (DisplayPort Alt Mode, HDCP 2.3/1.4) x 2 USB USB Type-C (DisplayPort Alt Mode, HDCP 2.3/1.4) x 2 USB USB Type-C: 31 - 134 kHz / 29 - 61 Hz USB USB Type-C: 31 - 134 kHz / 29 - 61 Hz USB USB SGbps: Type-B, Type-C (DisplayPort Alt Mode, Power Delivery Source 94 W max.) USB USB SGbps: Type-B, Type-C (Type-C Curent, 15 W max.) Audio Input Terminals USB Type-C, DisplayPort, HDMI x 2 Audio Input Terminals USB Type-C, DisplayPort, HDMI x 2 <th></th> <th></th> <th></th>				
Size 31.5" / 80.0 cm		Туре	IPS	
Panel Native Resolution 3840 x 2160 (16:9 aspect ratio) Viewable Image Size (H x V) 697.3 x 392.2 mm Pixel Pitch 0.182 x 0.182 mm Display Colors 16.77 million Viewing Angles (H / V, typical) 178* / 178* Brightness (typical) 350 cd/m² Response Time (typical) 5ms (gray-to-gray) Use Type-C (DisplayPort Alt Mode, HDCP 2.3/1.3), HDMI (HDCP 2.3/1.4) x 2 USB Type-C: 31 - 134 kHz / 29 - 61 Hz Use Type-C: 31 - 134 kHz / 29 - 61 Hz DisplayPort: 31 - 134 kHz / 29 - 61 Hz USB Upstream USB 5Gbps: Type-B, Type-C (DisplayPort Alt Mode, Power Delivery Source 94 W max.) Downstream USB 5Gbps: Type-A x 3, Type-C (Type-C Curent, 15 W max.) Audio Input Terminals USB Type-C, DisplayPort, HDMI x 2 Output Terminals USB Type-C, DisplayPort, HDMI x 2 Output Terminals USB Type-C, DisplayPort, HDMI x 2 Power Requirements AC 100 - 240 V, 50 / 60 Hz Typical Power Consumption 18 W Maximum Power Consumption 196 W Power Save Mode 0.35 W or less Physical Specifications Dimensions (Landscape, W x H x D) </td <td></td> <td>Backlight</td> <td>LED</td>		Backlight	LED	
Viewable Image Size (H x V) 697.3 x 392.2 mm		Size	31.5" / 80.0 cm	
Pixel Pitch		Native Resolution	3840 x 2160 (16:9 aspect ratio)	
Pixel Pitch 0.182 x 0.182 mm	Danal	Viewable Image Size (H x V)	697.3 x 392.2 mm	
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Brightness (typical) 350 cd/m²		Display Colors	16.77 million	
Response Time (typical) 5ms (gray-to-gray		Viewing Angles (H / V, typical)	178° / 178°	
Input Terminals		Brightness (typical)	350 cd/m ²	
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Speakers 2.0 W + 2.0 W	USB	Upstream		
Audio Input Terminals Output Terminals Power Requirements AC 100 - 240 V, 50 / 60 Hz Typical Power Consumption Maximum Power Consumption Power Save Mode Physical Specifications Input Terminals USB Type-C, DisplayPort, HDMI x 2 Headphones (Stereo mini jack), Line out (Stereo mini jack) AC 100 - 240 V, 50 / 60 Hz Typical Power Consumption 18 W Output Terminals AC 100 - 240 V, 50 / 60 Hz Typical Power Consumption 196 W Power Save Mode 712.2 x 427.3 – 622.2 x 242.2 – 250.7 mm		Downstream	USB 5Gbps: Type-A x 3, Type-C (Type-C Curent,15 W max.)	
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Maximum Power Consumption 196 W Power Save Mode 0.35 W or less Physical Specifications (Landscape, W x H x D) 712.2 x 427.3 – 622.2 x 242.2 – 250.7 mm	ı	Typical Power Consumption	18 W	
Dimensions 712.2 x 427.3 – 622.2 x 242.2 – 250.7 mm Specifications Physical Clandscape, W x H x D Physical Physi	Power	Maximum Power Consumption	196 W	
Physical (Landscape, W x H x D) 712.2 x 427.3 – 622.2 x 242.2 – 250.7 mm		Power Save Mode	0.35 W or less	
Net Weight 9.4 kg			712.2 x 427.3 – 622.2 x 242.2 – 250.7 mm	
	Specifications	Net Weight	9.4 kg	





FlexScan EV3240X LCD Monitor

According to ISO 14025

Environmental	Operating Temperature	5 - 35 °C
Requirements	Operating Humidity (R.H., non-condensing)	20 - 80 %

Material Content

The below tables show the weight composition by compnent or material in a product and package. Less than 5% of cumulative mass of the product/packagge are excluded.

Table 2: Components/Materials in a Product

Component/Material	Weight (%)	Notes
UNIT-LCD	31.6%	Inclusion
ASSY-STAND	27.5%	Inclusion
ASSY-PCB-POWER	9.3%	Inclusion
MLD-REAR-COVER	8.9%	Inclusion
ASSY PCB-MAIN	7.0%	Inclusion
MLD-MID-COVER	4.2%	Inclusion
MTL-MT-COVER	2.7%	Inclusion
CORD-AC	2.3%	Inclusion
CABLE-CONNECTER	1.2%	Inclusion
CABLE	1.1%	Inclusion
MTL-VESA-PLATE	1.1%	Exclusion
Cable	0.7%	Exclusion
Speaker	0.4%	Exclusion
Manuals	0.4%	Exclusion
Sheets	0.3%	Exclusion
Harnesses	0.3%	Exclusion





According to ISO 14025

Component/Material	Weight (%)	Notes
Plastic Moldings	0.3%	Exclusion
Circuit board	0.2%	Exclusion
Metal Parts	0.2%	Exclusion
Others	0.1%	Exclusion

Table 3: Components/Materials in a Package

Component/Material	Weight (%)	Notes
CARTON-32W-6-CB	44.5%	Inclusion
CUSHION-32W-7-T-PM	22.1%	Inclusion
CUSHION-32W-7-B-PM	20.8%	Inclusion
FRONT-PAD-CB	10.4%	Inclusion
Others	2.3%	Exclusion





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Manufacturing Location

Table 4: Manufacturing Location

Factory	Address
EIZO Corporation	153 Shimokashiwano, Hakusan, Ishikawa 924-8566 Japan
EIZO MS Corporation (Unit board)	37-9-Re Jike, Hakui, Ishikawa 925-8566 Japan

Transportation

The below table show the transportation path from EIZO manufacturing locatin to their customer sites.

Table 5: Trasportation information from a factory to a customer site

Path	Geographical info	rmation	Volume	Distance
Paul	Departure	Arrival	(ton)	(km)
10t truck	Hakusan, Ishikawa	Tokyo	47.2	600
4t truck	Hakusan, Ishikawa	Tokyo	66.1	600
10t truck	Hakusan, Ishikawa	Osaka	10.3	450
4t truck	Hakusan, Ishikawa Osaka		19.4	450
10t truck	Hakusan, Ishikawa Nagoya		6.8	400
4t truck	Hakusan, Ishikawa	Nagoya	7.6	400
10t truck	Hakusan, Ishikawa Fukuoka		15.8	900
4t truck	Hakusan, Ishikawa	Fukuoka	0.9	900





FlexScan EV3240X LCD Monitor

According to ISO 14025

Use Phase

In Use phase, the total power consumption during the lifetime was calculated according to EPD 004: Monitor [2013/00/201309], Product Category Rules (PCR) for Monitor as below.

Table 6: Usage Condition

Usage time (hours/day)			Lifetime	Usage day
On mode	Standby mode	Off mode	(year)	(days/year)
9.6 (40%)	1.2 (5%)	13.2 (55%)	4	365

Power consumption (W)			Total Power Consumption
On mode	Standby mode	Off mode	(kWh)
18 W	0.5 W	0 W	252.9 kWh

Disposal Stage

The below table show the waste treatment by material according to the data from Japan Plastic Waste Management Instituten, Association for Electric Home Appliances, Paper Recycling Promotion Center.

Table 7: Disposal treatment

Material	Weight (%)	Recycle	Incineration	Landfill
Plastic	26.7%	86%	8%	6%
Iron	25.4%	86%	-	14%
Paper	23.1%	95%	5%	-
Glass	4.6%	-	-	100%
Aluminum	16.8%	86%	-	14%





FlexScan EV3240X LCD Monitor

According to ISO 14025

Copper	1.5%	86%	-	14%
Other material	1.6%	-	-	100%
Other metal	0.3%	-	-	100%

LCA Rules

Functional Unit

The functional unit is defined as one unit of 31.5-inch LCD monitor.

System Boundary

The system boundary includes all life cycle stages includes Collecting Raw Materials, Manufacturing, Distribution, Use and Disposal. This is a cradle-to-grave study and this LCA study is not comparative assertion.

Table 8: System Boundary

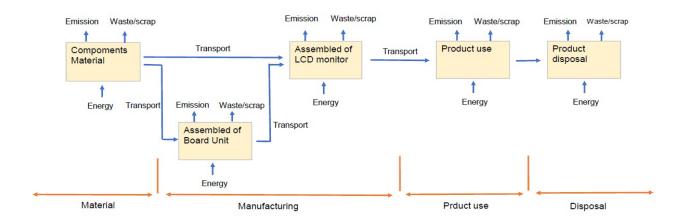
Stage Prior to Manufacturing	Collecting Raw Materials	A1	X
Stage of Manufacturing	Manufacturing	A2	Х
	Distribution	A3	Х
Stage of Use	Use	В	Х
Stage of Scrapping Disposal		С	Х





FlexScan EV3240X LCD Monitor

According to ISO 14025



Cut-off Rules

Material Inventory survey was conducted on 95 wt. % of material in each Product / Package.Disposal stage survey was conducted on 95 wt. % of material in each Product / Package.

LCA Data

For Life Cycle Assessment, SimaPro release 9 software system has been used. Ecoinvent 3 datasets have been taken from SimaPro release 9 software database.

EIZO collects

- Material data from the product specification
- Usage codition data from the product specification
- Transportation data from carrier's input
- Energy data from the utility invoice





FlexScan EV3240X LCD Monitor

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Data Quality

All foreground data were collected at Hakusan and Hakui Plant Between April 2021 and March 2022 (One year average data).

Background data were used from ECOINVENT 3 database (The data version is 2020).

Allocation

The electric power used in the factory for manufacturing an EV3240X was calculated by allocating EV3240X weight from the total weight of the monitor produced in one year (monitor mass x number of production) of this factory.

The electric power used in the PCB board factory for manufacturing an EV3240X PCB board was allocated from the production ratio of small, medium, and large monitors for one year and its representative mass of the PCB board.

Assumption and Limitation

Assumption

The on-mode power consumption when using this monitor was used the power consumption value of EIZO's Typical Power Consumption specifications.

For transportation, EIZO picked up four major cities, Tokyo, Osaka, Nagoya and Fukuoka.

Glass and other materials/metals were assumed to be 100% landfilled.

Limitation

The study results are limited to a specific use scenario and real-world use of the monitor which may significantly change the result. Materials are represented by industry average data, not primary supplier data. To the extent that material/components suppliers may not be average, the results might significantly change.





FlexScan EV3240X LCD Monitor

According to ISO 14025

Life Cycle Assessment Results

The LCA was calculated by using CML and developed by the Institute of Environmental Sciences Leiden University, the Netherlands. https://www.universiteitleiden.nl/en/science/environmental-sciences/tools-and-data#CML_IA

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

Table 9: Life Cycle Assessment Results

Environment Impact							
Impact Category	Units	A1-C	Model				
Global warming (GWP)	kg-CO2eq	4.63E+02	IPCC				
Ozone depletion (ODP)	kg-CFC-11eq	2.34E-05	WMO				
Eutrophication (EP)	kgPO ₄ ³-eq	1.70E+00	Heijungs et al.				
Acidification potential (AP)	kg-SO₂eq	4.21E+00	Hauschild and Wenzel				
Photo Chemical Ozone Creation (POCP)	kg-C₂H₄eq	1.79E-01	Jenkin and Hayman				
Abiotic Depletion Potential (ADP)	Kg-Sbeq	3.53E+00	Guinee et al.				

Impact Category	Units	Raw Material A-1	Manufacturing A-2	Transportation A-3	Use B	Disposal C
GWP	kg-CO₂eq	2.98E+02	3.34E+00	3.26E+00	1.56E+02	2.16E+00
ODP	kg-CFC-11eq	1.97E-05	5.82E-08	4.82E-07	3.03E-06	6.98E-08
EP	kgPO₄³-eq	1.54E+00	3.11E-03	1.87E-03	1.55E-01	1.30E-03
AP	kg-SO₂eq	3.46E+00	1.49E-02	8.46E-03	7.22E-01	2.05E-03
POCP	kg-C₂H₄eq	1.47E-01	6.15E-04	4.19E-04	2.99E-02	8.44E-05
ADP	Kg-Sbeq	2.36E+00	2.41E-02	2.32E-02	1.13E+00	3.54E-03





FlexScan EV3240X LCD Monitor

According to ISO 14025

Interpretation

Completeness

Since we have made a 5% cut-off, the raw material should be an additional 5%. In the GWP impact index, Row material accounts for 64.4 % of total emissions. Therefore, the total impact will increase by 3.2 %.

The 5% cut off materials are small parts, sheets and labels made of general plastics, and copper harnesses, paper prints, metal, screws, etc and the same raw materials are also included in another 95% materials.

The 5% materials do not include anything that has a major impact on the environment.

Sensitivity

When the brightness of On-mode, which may vary as data, is doubled, it will increase by 21 W in actual measurement.

When On-mode increases by 21 W, Total Power Consumption increases from 252.9 kWh to 557.1 kWh. This corresponds to an increase of 187.8 kg in CO2 emissions. In the GWP impact, Total Power Consumption (use phase) accounts for 33.7 % of the total, so the total GWP impact increases by 40.6 %.

Consistency

The impact index of the LCD panel accounts for 68.0 % of the raw material, and 43.8 % of the total life cycle impact index. If the impact index of the LCD panel increases by 10% due to errors, the total impact will increase by 4.4 %. This corresponds to an increase of 20.3 kg in CO2 emissions.

Representativeness

The materials and processes of this product are very common. So, most of selected data represents this model well. However, there are several kinds of cables/connectors in this product and we used only the below three data. These cables/connectors consist of 3.7 % total product weight. This might have some small variances.

- Cable, three-conductor cable
- Electric connector, wire clamp
- Electric connector, peripheral type buss

There is a stand-free version as another form of EV3240X. In the case of the version without stand, the impact index for the no stand is reduced.

From the GWP impact, CO2 emissions from the stand are 5.5 % of the raw material, which is 16.5 kg. The total impact without a stand is only decrease of 4.1 %, and it can be considered that the standard product with stand can be regarded as representative data.





FlexScan EV3240X LCD Monitor

According to ISO 14025

References

ISO 14025/DIN EN /ISO 14025:201110: Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14040: 2006 - Environmental management - Life cycle assessment - Principles and framework

ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines

EPD 004: Monitor [2013/00/201309], Product Category Rules (PCR) for Monitor

SimaPro 9.0 / Ecoinvent 3:

CML 2001 (all impact categories) V2.05 / the Netherlands, 1997

