Product Environmental Aspects Declaration



Interphone (PSC No.AX-03)

No. AX-08-023

Panasonic

http://panasonic.jp/door/

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N B

VL-SV30X

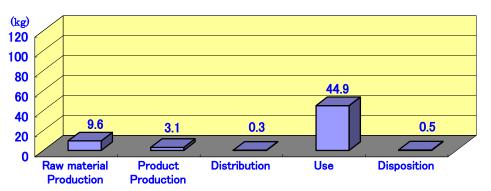
Product Specification

- · Personal use
- · Hand free mutual telephone call
- · With a camera function
- Main monitor station mass[catalogue] 0.375 kg
- Door station mass[catalogue] 0.20 kg
- · the intercom 1set, and the color monitor 1set

Life Cycle Impacts

	Total,all stage			
Global warming(CO ₂ equivalent)	58.3 kg			
Acidification(SO ₂ equivalent)	0.073 kg			
Energy Consumption	1,251 MJ			

Global warming Impact (CO₂ equivalent)



The interphone, manuals, accessories, packing material, and the set box are contained in the range of this declaration.

The environmental burden of use stage is calculated using assumption of seven years-usage and 30minutes/day-operation.

Notes:

- 1. Original LCA data is available on PEIDS: Product Environmental Information Declaration Sheet, and Product Data Sheet.
- Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PSC: Product Specification Criteria.
 Visit EcoLeaf website under JEMAI homepage at http://www.jemai.or.jp/ecoleaf_e/ for details.
- 3. Although this product is manufactured in Vietnam, Japanese data have been used as EcoLeaf generic data, instead of Vietnam data that have not been developed.

[Supplemental environmental information]

Main assembly production of this is manufactured at the factory certained by ISO 14001.

Specific brominated flame retardants, PBB and PBDE are not obtained in plastic console material.

Pb-free solder is used for the main circuit board.

A chrome free steel plate which avoided hexavalent chromium is used for thos product.

Product Environmental Information Data Sheet (PEIDS)



Document control no.	F-02As-02
Product vendor	Panasonic System Networks Co.,Ltd.
EcoLeaf registration no.	AX-08-023

Unit Function DB version Characterization Factor DB version

v2.1	
v2.1	

PSC name	Interphone	Product type	VL-SV30X				
PSC code	AX-03	Product weight (kg)	0.6	Package (kg)	0.4	Weight total (kg)	1.0

	_			Life Cycle Stage	11.2	Produ	uction	D: () (B: 22	T
In/O	ut iten	ns			Unit	Raw material	Product	Distribution	Use	Disposition	Total
		E,	oray C	Consumption	MJ	1.67E+02	6.71E+01	3.88E+00	1.01E+03	9.08E-01	1.25E+03
		LI	leigy C	Consumption	Mcal	4.00E+01	1.60E+01	9.26E-01	2.42E+02	2.17E-01	2.99E+02
			rces	Coal	kg	7.81E-01	3.92E-01	9.05E-06	5.76E+00	4.17E-03	6.93E+00
			nose	Crude oil (for fuel)	kg	1.99E+00	4.47E-01	8.47E-02	6.51E+00	1.21E-02	9.04E+00
			93 AG.	LNG	kg	3.64E-01	1.96E-01	1.31E-03	2.88E+00	2.21E-03	3.44E+00
			Energy	Uranium content of an ore	kg	4.54E-05	2.66E-05	6.14E-10	3.90E-04	2.82E-07	4.62E-04
	Ē			Crude oil (for material)	kg	3.42E-01	0	0	0	0	3.42E-01
	ğ	w		Iron content of an ore	kg	5.39E-02	0	0	0	0	5.39E-02
	Ę	ë		Cu content of an ore	kg	2.28E-02	0	0	0	0	2.28E-02
	ns	ž		Al content of an ore	kg	-	-	-	-	-	
	o	SSC	Ś	Ni content of an ore	kg	1.08E-02	0	0	0	0	1.08E-02
	O	9	8	C content of an ore	kg	1.47E-02	0	0	0	0	1.47E-02
	Se	əe	ă	Mn content of an ore	kg	2.03E-03	0	0	0	0	2.03E-03
	no	sti	resources	Pb content of an ore	kg	1.85E-03	0	0	0	0	1.85E-03
	esi	an		Sn content of an ore	kg	-	-	-	-	-	
	2	Exhaustible resources	e e	Zn content of an ore	kg	1.82E-02	0	0	0	0	1.82E-02
	Impact by Resource Consumption	Ш	Mineral	Au content of an ore	kg	-	-	-	-	-	
	g		Σ	Ag content of an ore	kg	-	1	-	-	-	
SS	ed			Silica Sand	kg	6.51E-02	0	0	0	0	6.51E-02
)S(≟			Halite	kg	1.35E-01	0	0	0	5.49E-04	1.36E-01
<u>'a</u>				Limestone	kg	6.97E-02	0	0	0	4.70E-03	7.44E-02
ਕ				Natural soda ash	kg	6.57E-03	0	0	0	0	6.57E-03
<u>></u>				Wood	kg	7.98E-01	0	0	0	0	7.98E-01
Inventory anaiyses			Aprenda	Water	kg	1.15E+03	2.97E+02	6.86E-03	4.36E+03	3.46E+00	5.81E+03
Š	ıı			CO2	kg	9.35E+00	3.06E+00	2.75E-01	4.47E+01	5.29E-01	5.80E+01
⊆	l e		(I)	Sox	kg	6.17E-03	2.33E-03	1.69E-04	3.42E-02	2.90E-04	4.31E-02
	uo.		ē	Nox	kg	1.19E-02	1.88E-03	1.34E-03	2.71E-02	8.10E-04	4.30E-02
	Ξ		d d	N2O	kg	7.81E-04	3.54E-05	4.57E-05	4.89E-04	1.39E-06	1.35E-03
	ē		to Atmosphere	CH4	kg	1.21E-04	7.10E-05	1.64E-09	1.04E-03	7.54E-07	1.23E-03
	‡		Ħ	CO	kg	1.18E-03	4.58E-04	3.62E-04	6.62E-03	2.00E-04	8.81E-03
	5		0	NMVOC	kg	2.37E-04	1.39E-04	3.21E-09	2.04E-03	1.48E-06	2.42E-03
	rge		-	СхНу	kg	3.61E-04	8.65E-06	4.02E-05	1.07E-04	6.96E-06	5.23E-04
	ha			Dust	kg	1.11E-03	1.04E-04	1.25E-04	1.46E-03	5.16E-05	2.85E-03
	Impact by Emission/Discharge to the environment	em	ain	BOD	kg	=	-	-	-	-	
	5	to Water system	to Water domain	COD	kg	-	-	-	-	-	
	Siol	iter:	ter	N total	kg	-	-	-	-	-	
	nisi	Wa	Wa	P total	kg	-	-	-	-	-	
	ᇤ	ţ.	\$	SS	kg	-	-	-	-	-	
	þ		system	Unspecified Solid Waste	kg	6.78E-02	2.01E-08	0	0	6.87E-01	7.55E-01
	act		Sys	Slag	kg	8.37E-02	0	0	0	0	8.37E-02
	ďμ		Soil	Sludge	kg	-	-	-	- 0.705.07	-	0.005.04
			\$	Low level radio-active waste	kg	3.18E-05	1.85E-05	4.29E-10	2.72E-04	1.97E-07	3.22E-04
assessment	by Res			Energy resources (crude oil equivalent)	kg	3.30E+00	1.15E+00	8.63E-02	1.69E+01	1.97E-02	2.14E+01
Sm	- &		1	Mineral resources (Iron ore equivalent)	kg	1.56E+01	0	0	0	0	1.56E+01
Ses	Morrae		here	Global Warming (CO2 equivalent)	kg	9.56E+00	3.07E+00	2.88E-01	4.49E+01	5.30E-01	5.83E+01
ass	ng of equ		dsou	Acidification (SO2 equivalent)	kg	1.45E-02	3.65E-03	1.10E-03	5.31E-02	8.57E-04	7.32E-02
Impact	i' Disch		to Atmosphe	Dhatashami 10 11	1.	0.005.04	4.055.04	0.745.05	4.505.00	0.475.05	0.405.00
ηρί	Drission		\$	Photochemical Oxidant	kg	6.98E-04	1.05E-04	6.74E-05	1.50E-03	2.47E-05	2.40E-03
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[Notes for readers: EcoLeaf common rules]

- I. Stage related
- A. "Production" stage is intended for two sub-stages listed below.
- (1) "Raw material" production: consists of mining, transportation and raw material production.
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
- B. "Distribution" stage is intended for transportation of produced product. Transportation of consumables and maintenance goods (e.g. replacement parts) for use of the product are included into "Use" stage.
- C. 'Use' stage is intended for use of the product (active mode, standby mode, etc.) and production, transportation to disposal of consumables/maintenance goods (e.g. replacement parts).
- D. "Disposition" stage is intended for environmental impacts by product disposition.

II. Inventory analyses

- A. Data of mineral ore on "Exhaustible resources" are presented in weight of pure ingredients (e.g. iron, aluminum) in the ore.
- B. Data on energy resources are presented based on origin in calorific value. e.g. Data on uranium ore presents weight of uranium concentrate, which is available for use as an atomic fuel.
- C. Data of discharge to water system are in actual figure (not calculated using unit function in inventory analyses).

Result of the "Impact analyses" is found in converting results of inventory analyses into total amount of a reference material (e.g. CO2 in case of "Global Warming").

- A. Impact "by resource consumption" represents magnitude of impacts to resource depletion.
- B. Impact "by emission/discharge to environment" represents magnitude of impacts to Atmosphere, Water and Soil system.

IV Data entry format

- A. Exponential notation, after the decimal point to two, should be used.
- B. Indicate "O" instead exponential notation, if the result of calculation or estimation is considered as "zero" or negligible in comparison to related results.
- C. Indicate " " if calculation nor estimation can not be done, in order to differentiate to indicate "zero".
- D. Row total of the data is automatically calculated, excluding a row includes " " item. Row total of such is presented as a blank (no data).

 (BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.)

[Notes for readers: Target product specific]
As a general rule, the generic data of materials are numerical data of material production from ores and do not include scraps.

Product data sheet

(Input data and parameters for LCA)

Document control no.	F-03s-02
Product vendor	Panasonic System Networks Co.,Ltd.
EcoLEaf registration no.	AX-08-023



PSC name	Interphone (PSC-ID: AX-03)	Product type	VL-SV30X				
LCA/LCIA in units of:	1 set	Product weight (kg)	0.6	Package (kg)	0.4	Weight total (kg)	1.0

1. Product information (per unit): parts etc. by material and by process/assembly method

	Bre	eakdown of p	rimary materials		Math breakdown of parts, which	h need to apply I	Processing / Assembly Base U	nits (Parts B, C)
	Material name	Weight (kg)	Material name	Weight (kg)	Process name	Weight (kg)	Process name	Weight (kg)
	Steel	2.91E-02	Assembled circuit board	1.46E-01	Press molding:Iron (kg)	2.73E-02		
	Electromagnetic steel plate	1.47E-03			Press molding: Nonferrous metal (kg)	3.09E-01		
duct	Stainless steel	6.84E-02			Injection molding (kg)	3.24E-01		
륁	Copper 8.50E-0							
Pro	Glass	3.50E-02						
	Thermoplastic resin	3.43E-01						
	Rubber	2.37E-03						
	Paper	3.69E-01						
	Subtotal	8.57E-01	Subtotal	1.46E-01				
		Total		1.00E+00	Subtotal	6.60E-01	Subtotal	0.00E+00

Note Intercom and color monitor are calculated in product weight.

Accessories, such as packing material and a handling description, are calculated for package weight.

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site.

SOx and NOx should be indicated in SO₂, NO₂ equivalent.

mption	Classification	Energy	Energy	Energy	Material	Material	Consumption	Consumption	
	Distribution	Electricity (kWh)	Gasoline (kg)	LPG (kg)	Industrial water (kg)	Clean water (kg)	Freight by ship (kg.km)	Diesel truck:4 ton (kg.km)	
_ =	Quantity	6.35E+00	8.62E-05	5.00E-06	3.68E-04	3.78E-04	1.95E+02	1.07E+01	
Cons	Note								
arge	Classification								
Disch	Distribution								
Emission/	Quantity								
	Note								

Note The manufacturing stage consists of assembly of a LCD unit, a speaker unit and final assembly of main unit.

3. Distribution stage information (per unit): means, distance, loading ratio, consumptions and emissions/discharges.

Distribution	Means of transportation	Consumption	Consumption	Consumption	Consumption		
	Conditions	Diesel oil as fuel	3	Diesel truck:	Diesel truck:		
		(kg)	(kg.km)	10 ton (kg.km)	4 ton (kg.km)		
	Quantity	3.10E-03	4.01E+03	2.66E+02	3.40E+02		
	Note						

Note The land transportation from overseas manufacturing site to Japan and marine transportation load are added up.

Moreover, domestic transportation distance is set to 500km.

4. Use stage (per unit): use condition (mode, term) including active mode, standby mode and maintenance.

4.1 Product and accessories subject to this analysis

	Classification	Consumption				
	Distribution	Electricity (kWh)				
	Quantity	1.07E+02				
	Note					

Note Based on the PSC, usable period is 7 years and operating time is 30 minute / day.

Excepting the operating time, the product is in standby mode all day.

4.2 Disposition/Recycle information on consumables and replacement parts

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Consumables	Classification											
	Distribution											
	Quantity											
	Note											

Note

5. Disposition/Recycle stage information (per product): process method and scenarios

Scenario	Classification	Consumption	Consumption	Discharge	Discharge		
	Distribution	Diesel truck:4 ton (kg.km)	Shredding (kg)	Incineration to landfill (as ash) (kg)	Landfill: General waste (kg)		
	Quantity	2.01E+02	1.00E+00	3.70E-01	6.30E-01		
	Note						

Note As wastes, combustibles are added up after crush and incineration and incombustibles are added up as reclamation.