Product Environmental Aspects Declaration

製品環境情報 http://www.jemal.or.jp

Interphone (PSC No.AX-03)

No. AX-08-024

Panasonic

http://panasonic.jp/door/

Panasonic System Networks Co.,Ltd.
Communication Products Division
TEL:092-477-1821 FAX:092-477-1487
MAIL ecoleaf@gg.jp.panasonic.com





VL-SV31KL

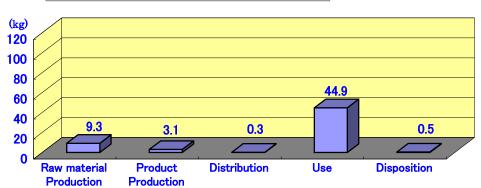
Product Specification

- · Personal use
- · Hand free mutual telephone call
- · With a camera function
- Main monitor station mass_[catalogue] 0.46 kg
- Door station mass[catalogue] 0.18 kg
- the intercom 1set, and the color monitor 1set

Life Cycle Impacts

	Total,all stage			
Global warming(CO ₂ equivalent)	58.1 kg			
Acidification(SO ₂ equivalent)	0.072 kg			
Energy Consumption	1,248 MJ			

Global warming Impact (CO₂ equivalent)



The 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:

- $1. \ Original\ LCA\ data\ is\ available\ on\ "PEIDS", Product\ Environmental\ Information\ Declaration\ Sheet,\ and\ "PDS", Product\ Data\ Sheet.$
- 2. 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-08-024

Unit Function DB version Characterization Factor DB version

v2.1	
v2.1	

PSC name	Interphone	Product type	VL-SV31KL				
PSC code	AX-03	Product weight (kg)	0.59	Package (kg)	0.48	Weight total (kg)	1.07

				Life Cycle Stage	11.2	Produ	uction	D:		D: '''	T
In/O	ut iten	ns			Unit	Raw material	Product	Distribution	Use	Disposition	Total
			ooray C	Consumption	MJ	1.64E+02	6.70E+01	4.07E+00	1.01E+03	9.44E-01	1.25E+03
		LI	leigy C	onsamption	Mcal	3.92E+01	1.60E+01	9.73E-01	2.42E+02	2.26E-01	2.98E+02
			rces	Coal	kg	7.59E-01	3.92E-01	9.51E-06	5.76E+00	4.27E-03	6.91E+00
			nose	Crude oil (for fuel)	kg	1.94E+00	4.47E-01	8.90E-02	6.51E+00	1.27E-02	9.00E+00
			ergy i	LNG	kg	3.55E-01	1.96E-01	1.37E-03	2.88E+00	2.27E-03	3.43E+00
			Eve	Uranium content of an ore	kg	4.41E-05	2.65E-05	6.45E-10	3.90E-04	2.89E-07	4.61E-04
	ou			Crude oil (for material)	kg	3.58E-01	0	0	0	0	3.58E-01
	pti	တ္သ		Iron content of an ore	kg	9.92E-02	0	0	0	0	9.92E-02
	Ш	S		Cu content of an ore	kg	3.20E-02	0	0	0	0	3.20E-02
	ารเ	Ino		Al content of an ore	kg	-	-	-	-	-	
	Ş	es	Se	Ni content of an ore	kg	7.15E-05	0	0	0	0	7.15E-05
	e (e	5	C content of an ore	kg	1.31E-04	0	0	0	0	1.31E-04
	ırc	lqi	no	Mn content of an ore	kg	5.54E-04	0	0	0	0	5.54E-04
	301	ust	resources	Pb content of an ore	kg	2.60E-03	0	0	0	0	2.60E-03
	Ses	Exhaustible resources		Sn content of an ore	kg	-	-	-	-	-	0.505.00
	Impact by Resource Consumption	X	Mineral	Zn content of an ore	kg	2.56E-02	0	0	0	0	2.56E-02
	t b		-ji	Au content of an ore	kg	-	-	-	-	-	
	ac		_	Ag content of an ore	kg	7.045.00	-	-	-	-	7.045.00
es	μ			Silica Sand	kg	7.31E-02	0	0	0	0	7.31E-02
anaiyses				Halite	kg	1.30E-01	0	0	0	6.06E-04	1.31E-01
na B				Limestone	kg	7.78E-02	0	0	0	4.70E-03	8.25E-02
<i>a</i>				Natural soda ash	kg	6.49E-03	0	0	0	0	6.49E-03
lo.				Wood	kg	7.99E-01	2.97E+02	·	•	3.54E+00	7.99E-01
Inventory			j.	Water	kg	1.12E+03		7.21E-03	4.36E+03		5.78E+03
Ž	ent			CO2	kg	9.09E+00	3.06E+00	2.89E-01	4.47E+01	5.32E-01	5.77E+01
_	пп		ē	Sox	kg	5.74E-03	2.33E-03	1.75E-04	3.42E-02	2.92E-04	4.27E-02
	iro		þe	Nox N2O	kg	1.14E-02 7.52E-04	1.88E-03 3.54E-05	1.37E-03 4.85E-05	2.71E-02	8.33E-04	4.26E-02
	- Su		Sp	CH4	kg		7.09E-05	4.85E-05 1.72E-09	4.89E-04	1.46E-06 7.73E-07	1.33E-03
	e e		o Atmosphere	CO CO	kg kg	1.18E-04 1.09E-03	4.58E-04	3.63E-04	1.04E-03 6.62E-03	2.09E-04	1.23E-03 8.74E-03
	o #		₹	NMVOC		2.30E-04	1.39E-04	3.38E-09	2.04E-03	1.51E-06	2.41E-03
	e t		9	CxHv	kg kg	3.49E-04	8.65E-06	4.17E-05	1.07E-04	7.42E-06	5.13E-04
	arg			Dust	kg kg	1.05E-03	1.04E-04	1.29E-04	1.07E-04 1.46E-03	5.33E-05	2.80E-03
	by Emission/Discharge to the environment	E .	c	BOD	kg	1.05E-05 -	1.04E-04	1.29E-04	1.46E-03	5.55E-05 -	2.00L-03
	Dis	ster	mai	COD	kg	-	-	-	-		
	/uo	to Water system	o Water domain	N total	kg	-	-	-	-		
	SSi	/ate	/atei	P total	kg	_	_	_	_	_	
	Ë	> 0	× 0	SS	kg	_	_	-	-	-	
	УE		F -	Unspecified Solid Waste	kg	7.07E-02	2.01E-08	0	0	7.58E-01	8.29E-01
	t b		syster	Slag	kg	1.14E-01	0	0	0	0	1.14E-01
	Impact I		Soil sy	Sludge	kg	-	-	-	-	-	1.112 07
	<u>E</u>		S S	Low level radio-active waste	kg	3.09E-05	1.85E-05	4.51E-10	2.72E-04	2.02E-07	3.21E-04
ŧ				Energy resources (crude oil equivalent)	ka	3.22E+00	1.15E+00	9.07E-02	1.69E+01	2.05E-02	2.13E+01
assessment	by Res			Mineral resources (Iron ore equivalent)	ka	9.91E+00	0	0	0	0	9.91E+00
SSI	men		9	Global Warming (CO2 equivalent)	kg	9.30E+00	3.07E+00	3.02E-01	4.49E+01	5.32E-01	5.81E+01
SSG	b entra		sphe	Acidification (SO2 equivalent)	kg	1.37E-02	3.65E-03	1.13E-03	5.31E-02	8.75E-04	7.25E-02
ğ	schirge		tmo	(9						
Impact a	alon/ D		to Atr	Photochemical Oxidant	kg	6.64E-04	1.05E-04	6.95E-05	1.50E-03	2.56E-05	2.37E-03
Ē	7 Dr. Brass										

[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)

	(iii)put data dira parametere iei 20, t/
Document control no.	F-03s-02
Product vendor	Panasonic System Networks Co.,Ltd.
EcoLEaf registration no.	AX-08-024



PSC name	Interphone (PSC-ID: AX-03)	Product type	VL-SV31KL				
LCA/LCIA in units of:	1 set	Product weight (kg)	0.59	Package (kg)	0.48	Weight total (kg)	1.07

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

	Bre	eakdown of pi	rimary materials		Math breakdown of parts, which	h need to apply f	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	1.43E-01	Press molding:Iron (kg)	9.68E-02		
	Electromagnetic steel plate	6.94E-02			Press molding: Nonferrous metal (kg)	3.15E-01		
nct	Stainless steel	4.40E-04			Injection molding (kg)	2.31E-01		
rodu	Copper	4.07E-02						
ڇَ	Glass	3.50E-02						
	Thermoplastic resin	3.78E-01						
	Rubber	5.14E-03						
	Paper	3.70E-01						
	Subtotal	9.27E-01	Subtotal	1.43E-01				
		Total		1.07E+00	Subtotal	6.43E-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.

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

	Means of transportation	Consumption	Consumption	Consumption	Consumption		
ibutio	Conditions	Diesel oil as fuel (kg)	Freight by ship (kg.km)	Diesel truck: 10 ton (kg.km)	Diesel truck: 4 ton (kg.km)		
Distri	Quantity	3.08E-03	4.28E+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

4.2 DIS	2 Disposition/Necycle information on consumables and replacement parts											
	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	2.14E+02	1.07E+00	3.70E-01	7.01E-01		
	Note						

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