

Intercom (PSC-ID: AX-03)

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Note: These standards have been prepared for the development of EcoLeaf™ environmental labels. Use for any other purpose without consent of the EcoLeaf™ program office is strictly prohibited.

No.	Major key	Minor key	Class	Requirements
1	Preconditions	Target product	Description	A device that uses voice and images to identify visitors for businesses and residences. Includes video doorphones, and surveillance cameras that can be connected to intercom systems.
2			Scope	Product and packaging included in smallest retail unit (wrapping and box) However, when product functions are not fulfilled in the above form, scope includes separate equipment needed to do so. Scope also includes cases and other intermediate packing materials used in distribution.
3		Stage	Scope	All stages covered.

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4	Product data sheet (PDS) Input data for the LCI: Lifecycle inventory analysis	Manufacturing stage information (product information)	Product materials or ingredient makeup	<p>1) Class A parts (parts whose processing and assembly impacts you determine yourself)</p> <ul style="list-style-type: none"> • Speaker • Video display <p>2) Material categories listed on product data sheet</p> <p>Normal steel, electromagnetic steel plate, stainless steel, aluminum, copper, other metals, thermoplastic resins, thermosetting resins, rubber, glass, paper, and assembled circuit boards. For other materials, list their intensities.</p> <p>3) Resource input amounts</p> <p>Calculated using material mass at the stage when materials become products.</p> <p>However, in special cases where the mass of some materials cannot be determined, get a breakdown of the masses of the materials making up at least 90% of the product's total mass, and prorate the rest to come out to 100%.</p> <p>4) When open recycling and reuse are included, each company can calculate these categories by creating scenarios considered appropriate, and while taking careful note of the following items. The soundness of scenario bases is subject to verification.</p> <p>(1) Processes regarded within the scope of "indirect effects"</p> <p>(2) Deductions and impacts within the scope of "indirect effects"</p> <p>Note</p> <p>PSC-AX-01: No distinction is made between direct and indirect effects with regard to recycling effectiveness.</p>

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5		Manufacturing stage information (production site information)	Material and energy inputs, consumption, and emissions	<p>1) Input and consumption items</p> <p>Electricity, fuel oil A, diesel fuel, kerosene, gasoline, LNG (town gas), LPG, city tap water, industrial water supply, groundwater</p> <p>2) Emissions</p> <p>Not specified. Each company should list those which it deems important.</p> <p>3) Transport impact</p> <p>The general rule is that the transport impact of material inputs (feedstock and energy) is not factored in. However, the inter-site transport impact for parts treated as class A is included. If class A parts are produced abroad, then, just as with the transport stage, calculate the domestic transport in the country of overseas production and the overseas transport to Japan, and add them to the domestic Japanese transport impact. Each company may set transport conditions according to its own situation, but the basis must be clearly shown.</p> <p>4) Byproducts and sub-materials.</p> <p>Not factored in.</p> <ul style="list-style-type: none"> • Byproducts are products which arise secondarily in the manufacturing process and are sold, as distinguished from products whose manufacture is the main purpose. • Sub-materials: Defined as materials input and discarded at manufacturing sites, and not shipped with products.
6		Distribution stage information	Product transport conditions	<p>1) Transport to user</p> <p>Means and loading ratio are based on the model created by each company.</p> <p>2) Domestic transport distance (transport to place of use)</p> <p>Set at 500 km.</p> <p>3) Impact of product transport from abroad to Japan</p> <p>Factor in the land and sea transport impact from manufacturing site.</p> <p>Note</p> <p>PSC-AX-01: Impact of transport abroad is not included.</p>

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7		Usage stage information	Product usage conditions	<p>1) Usage conditions</p> <ul style="list-style-type: none"> • Usage time: Seven years • Operating time: 30 min/day; standby time: 23 hours, 30 min/day • A year is 365 days with no leap year. <p>2) How to measure power consumption</p> <ul style="list-style-type: none"> • Measure operating power consumption and standby power consumption according to the criteria for measuring maximum power consumption and standby power consumption determined under the technical standards of the Electrical Appliance and Material Safety Law. • Appliance configuration: Perform measurements when power consumption is maximum under usage conditions given in product specifications (if additional equipment and options can be connected, evaluate the product at maximum values including said equipment and options). <p>3) Materials and energy consumed when making repairs</p> <p style="padding-left: 40px;">This does not occur in the standard scenario, and is therefore not covered in this PSC.</p> <p>4) Individual packaging and other packaging materials</p> <p style="padding-left: 40px;">For consumer intercoms only, apply recycling under the newest conditions set forth in the Container and Packaging Waste Recycling Law for individual packaging and other packaging materials.</p> <p style="padding-left: 40px;">In this case, waste management impact and deduction amount are both set to zero for the amount of waste that is to be recycled under the law.</p> <p style="padding-left: 40px;">(Amount recycled under the Container and Packaging Waste Recycling Law = anticipated amount of container and packaging waste generated × calculation coefficient)</p>

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8		Waste/ recycling stage information	Product waste/ recycling conditions	<p>Creating a standard scenario</p> <p>1) When main market is consumer market</p> <ul style="list-style-type: none"> • Unit proper, accessories, and other items are treated as noncombustible municipal solid waste (MSW). • Paper items are combustibles. <p>2) When main market is business market</p> <ul style="list-style-type: none"> • Each company develops a waste management scenario assuming that products are industrial waste. <p>3) When open recycling and reuse are included, each company can calculate these categories by creating scenarios considered appropriate, and while taking careful note of the following items. The soundness of scenario bases is subject to verification.</p> <p>(1) Processes regarded within the scope of “indirect effects”</p> <p>(2) Deductions and impacts within the scope of “indirect effects”</p> <p>Note</p> <p>PSC-AX-01: No distinction is made between direct and indirect effects with regard to recycling effectiveness.</p>
9	Product Environmental Information Declaration Sheet (PEIDS)	Inventory analyses	Lifecycle inventory calculation rules	<p>When open recycling and reuse are included, calculate direct and indirect effects separately and express the indirect portion as “recycling effectiveness.” On the PEIDS, put the indirect effect total in the “Recycling Effectiveness” space. Put the recycling effectiveness breakdown in the PEIDS explanation column.</p> <p>Note</p> <p>PSC-AX-01: No distinction is made between direct and indirect effects with regard to recycling effectiveness.</p>
10		Impact analysis	Additional impact category	<p>“Ozone layer depletion” and “eutrophication” are not included.</p>
11	Breakdown data sheet (PDS-related)	Data processing	Allocation rule	<p>Not unified; each company decides as it sees fit.</p>
12		Data collection	Coverage	<p>When data are unobtainable because products are new or for other reasons, it is permissible to substitute data (including intensities) that include the conditions used in designing or planning.</p>

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13			Cut-off rules	When cut-off rules apply for assembly impact and other impacts, specify so and clearly state the reason.
14	Breakdown data sheet (PEIDS-related)	Database	Common intensity selection	<p>Target item — EcoLeaf common intensities</p> <ol style="list-style-type: none"> 1) Assembly of parts whose purchase is decided by each company — “Parts assembly” 2) Flexible printed circuit boards, LCDs, and other populated circuit boards — “Assembled circuit boards” 3) AC adaptors — Electromagnetic steel plate 50%, copper 20%, applicable resin 30%. 4) Power cords — Conductor: copper 40%, covering material: applicable resin 60%. 5) Coil cord — Conductor: copper 20%, covering material: applicable resin 80%. 6) Signal line cord — Conductor: copper 10%, covering material: applicable resin 90% <p>Note: These do not restrict the use of individual intensities.</p>
15			Intensity database addition	No additions.
16			Addition of characterization factor	No additions.
17	Product Environmental Aspects Declaration (PEAD)	Product specification		<ol style="list-style-type: none"> 1) Consumer or business use 2) Communication type (simultaneous using handset, or alternating hands-free type) 3) Video or not 4) Product weight 5) Appliance configuration when used

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18		Data disclosure		<p>1) Required items</p> <p style="padding-left: 40px;">Global warming impact, acidification impact, energy consumption</p> <p>2) Optional items</p> <p style="padding-left: 40px;">Seven items in the guidelines</p> <p>3) Note at bottom of section E.</p> <p style="padding-left: 40px;">“Items subject to data disclosure include intercoms, manuals, accessories, packaging, and shipping cases (when used).”</p> <p>4) Section E, method of representation</p> <p style="padding-left: 40px;">Use bar graphs to show the global warming impact (CO₂ equivalent) for each stage and the total for all stages.</p> <p>5) When open recycling and reuse are included:</p> <ul style="list-style-type: none"> • “Recycling effectiveness” of each stage is expressed by a dotted line independent of and not integrated into actual impact. • Write the recycling effectiveness breakdown in the margin. <p style="padding-left: 40px;">Note</p> <p style="padding-left: 40px;">PSC-AX-01: No distinction is made between direct and indirect effects with regard to recycling effectiveness.</p>

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19		Other environment - related information (optional items)		<p>The following information may be provided when it is related to the product's environmental characteristics and when it can be confirmed by a third party.</p> <ol style="list-style-type: none"> 1) Type I and Type III environmental labels 2) Acquisition of ISO 14001 certification 3) Certificates, approvals, or awards from national or industry organizations 4) Information on hazardous substances <ul style="list-style-type: none"> Whether or not these 6 substances are used: lead, mercury, cadmium, hexavalent chrome, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs). Note clearly when there are limitations on items subject to entry here. 5) Information on use of eco-friendly materials <ul style="list-style-type: none"> Note the part and specify its materials.