


# THE ECO DECLARATION



ECMA/TC38-TG3/2015/026  
(Rev. 1 – 15 April 2015)

## Annex B2 - Product environmental attributes Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

<b>Brand *</b>	<i>Lenovo</i>	<b>Logo</b> 
<b>Company name *</b>	<i>Lenovo</i>	
<b>Contact information * e-mail address</b>	<i>Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com</i>	
<b>Internet site *</b>	<i>www.lenovo.com</i>	
<b>Additional information</b>		


<b>The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.</b>	
<b>Type of product *</b>	<i>Notebook</i>
<b>Commercial name *</b>	<i>Lenovo V730-13/ZhaoYang K32-80</i>
<b>Model number *</b>	<i>81AU, 81AV</i>
<b>Issue date *</b>	<i>2017/9/21</i>
<b>Intended market *</b>	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
<b>Additional information</b>	

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

### About Annex B2


Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

- P4.1 – P4.3 Consumable materials
- P9.1 TEC and Print speed
- P10.2 - P10.3 Chemical emissions from printing products
- P11.1 - P11.3 Consumable materials for printing products.

<b>Model number *</b>	81AU, 81AV	<b>Logo</b>			
<b>Issue date *</b>	2017/9/21				
<b>Product environmental attributes - Legal requirements</b>				<b>Requirement met</b>	
Item		Yes	No	n.a.	
<b>P1</b>	<b>Hazardous substances and preparations</b>				
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm <sup>2</sup> /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): <a href="http://www.lenovo.com/social_responsibility/us/en/materials.html">http://www.lenovo.com/social_responsibility/us/en/materials.html</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>P2</b>	<b>Batteries</b>				
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>P3</b>	<b>Conformity verification &amp; Eco design (ErP)</b>				
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference). Required information is; <input checked="" type="checkbox"/> given in item P15 or added to this document, <input type="checkbox"/> available at (add URL): <a href="http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks/">http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks/</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>P5</b>	<b>Product packaging</b>				
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>P6</b>	<b>Treatment information</b>				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.



Model number *	81AU, 81AV	Logo	
Issue date *	2017/9/21		

Product environmental attributes - Market requirements (continued)			Requirement met		
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Item		Yes	No	n.a.
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Material and substance requirements (continued)				
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P7.21*	Biobased plastic material content is used in the product (See NOTE B7): If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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P8 Batteries				
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P8.1*	Battery chemical composition: <i>Lithium Ion/Lithium Manganese Dioxide</i>	<input type="checkbox"/>		
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P9 Energy consumption (See NOTE B8)				
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P9.1 For the product the following power levels or energy consumptions are reported:

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *	<input checked="" type="checkbox"/>
<b>Peak (On-max)</b>	45 W	45 W	45 W	Full load	
<b>Category I1</b>					
Short Idle State - WOL Enabled	5.416 W	5.364 W	5.436 W	ENERGY STAR V6.1	
Long Idle State - WOL Enabled	2.208 W	2.268 W	2.46 W	ENERGY STAR V6.1	
Sleep (S3) - WOL Enabled	0.408 W	0.432 W	0.468 W	ENERGY STAR V6.1	
Sleep (S3) - WOL Disabled	0.384 W	0.421 W	0.452 W	ENERGY STAR V6.1	
Off (S5) - WOL Enabled	0.276 W	0.288 W	0.384 W	ENERGY STAR V6.1	
Off (S5) - WOL Disabled	0.27 W	0.28 W	0.38 W	Use for ErP Lot 3	
	W	W	W	Reference	
<b>Category I2</b>					
Short Idle State - WOL Enabled	5.652 W	5.676 W	5.76 W	ENERGY STAR V6.1	
Long Idle State - WOL Enabled	2.46 W	2.67 W	2.92 W	ENERGY STAR V6.1	
Sleep (S3) - WOL Enabled	0.444 W	0.456 W	0.48 W	ENERGY STAR V6.1	
Sleep (S3) - WOL Disabled	0.434 W	0.442 W	0.46 W	ENERGY STAR V6.1	
Off (S5) - WOL Enabled	0.276 W	0.288 W	0.336 W	ENERGY STAR V6.1	
Off (S5) - WOL Disabled	0.272 W	0.284 W	0.325 W	Use for ErP Lot 3	
	W	W	W	Reference	
<b>Category ---</b>					
Short Idle State - WOL Enabled	W	W	W	Reference	
Long Idle State - WOL Enabled	W	W	W	Reference	
Sleep (S3) - WOL Enabled	W	W	W	Reference	

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B9 A Guidance document on Acoustic Noise is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

<b>Sleep (S3) - WOL Disabled</b>	W	W	W	<b>Reference</b>
<b>Off (S5) - WOL Enabled</b>	W	W	W	<b>Reference</b>
<b>Off (S5) - WOL Disabled</b>	W	W	W	<b>Reference</b>
	W	W	W	<b>Reference</b>
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	W	W	W	
PTEC * Typical Energy Consumption	<b>2.17 W</b>	<b>2.20 W</b>	<b>2.27 W</b>	<b>I2</b> <input checked="" type="checkbox"/>
ETEC * Annual Energy Consumption	<b>19.02 kWh/year</b>	<b>19.29 kWh/year</b>	<b>19.90 kWh/year</b>	<b>I2</b> <input checked="" type="checkbox"/>
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : <b>VI</b>				<input checked="" type="checkbox"/>
Display resolution * : <b>2.07</b> megapixels				<input checked="" type="checkbox"/>
Default time to enter energy save mode:            minutes				<input type="checkbox"/>
P9.2*	Information about the energy save function is provided with the product.			<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P9.3	Energy efficiency class (monitors only):			<input checked="" type="checkbox"/>
<b>P10 Emissions</b>				
<b>Noise emission – Declared according to ISO 9296 (See NOTE B9)</b>				
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)	
	Idle	* <b>Idle mode</b>	* <b>2.7</b>	<input type="checkbox"/>
	Operation	* <b>Operating (CPU)</b>	* <b>2.8</b>	<input type="checkbox"/>
	Other mode	<b>Declared A-weighted sound pressure level (dB) <math>L_{pAm}</math></b>	<b>18 (operator position desktop – idle)</b>	
	Other mode	<b>Declared A-weighted sound pressure level (dB) <math>L_{pAm}</math></b>	<b>21 (operator position desktop – operating)</b>	
Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)				

Model number *	81AU, 81AV	Logo	
Issue date *	2017/9/21		

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
<b>Electromagnetic emissions</b>				
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s): <i>MPR-II(3 pin AC adapter only)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P12 Ergonomics for computing products</b>				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P13 Packaging and documentation</b>				
P13.1*	Product packaging material type(s): <i>Carton</i> weight (kg): <i>0.541</i> Product packaging material type(s): <i>Paper</i> weight (kg): <i>0.09</i> Product packaging material type(s): <i>Plastic</i> weight (kg): <i>0.087</i>			
P13.2*	Product plastic primary packaging is free from PVC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: <i>65 %</i>			<input type="checkbox"/>
P13.4*	Specify media for user and product documentation (tick box): <input checked="" type="checkbox"/> Electronic, <input checked="" type="checkbox"/> Paper, <input type="checkbox"/> Other			<input type="checkbox"/>
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify: Totally chlorine-free Elemental chlorine-free Processed chlorine-free	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>P14 Voluntary programs</b>				
P14.1	The product meets the requirements of the following voluntary program(s):  ENERGY STAR® Criteria version: <i>6.1</i> Date: <i>Aug/2017</i> Product category: <i>11/12</i> Eco-label: Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category:			
<b>P15 Additional information (See NOTE B10)</b>				
P9	<b>Energy consumption of specific configuration may vary; description of the tested product configuration:</b>			

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII)	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2.3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC ( Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

# Lenovo ErP Lot3 Information Sheet


## - PC / Notebook -

As required by COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers (ErP Lot3).

### Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	Lenovo V730-13/ZhaoYang K32-80	Logo 
Model number *	81AU, 81AV	
Issue date *	2017/9/21	
Additional information		

P7.1.1 Product environmental attributes					
(d) year of manufacture:		2016			
(e) <b>Etec value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are disabled</b> and if the system is tested with switchable graphics mode with UMA driving the display.					
(f) <b>Etec value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are enable</b>					
		Category A	Category B	Category C	Category D
		(according to ErP Lot 3)	(according to ErP Lot 3)	(according to ErP Lot 3)	(according to ErP Lot 3)
capability adjustments applied during testing	Memory over base [GB]	16			
	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
	Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)
	Category of discrete graphics Card(s)	N/A			
Test results	<b>Etec Value (kWh) - dGfx disabled</b> all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	10.48			
	<b>Etec Value (kWh) - dGfx enabled</b> all discrete graphics cards (dGfx) are enabled	N/A			
(g) Idle state power demand (Watts);		3.12			
(h) Sleep mode power demand (Watts);		0.42			
(i) Sleep mode with WOL enabled power demand (Watts) (where enabled);		0.44			
(j) Off mode power demand (Watts);		0.36			
(k) Off mode with WOL enabled power demand (Watts) (where enabled);		0.36			
(l) Internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable):					
10%		20%	50%	100%	Average
(m) external power supply efficiency (if applicable)*:					
Average active efficiency: 87.93% · 88.67% · 87.62% · 81.44%					
*internal note: show values for all available external power supplies					
(o) Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):		300 cycles			
(p-1) Measurement methodology used to determine information mentioned in points (l) – internal PSU efficiency:		NA			



(p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: <b>ENERGY STAR® Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power Supplies Eligibility Criteria (Version 2.0)</b>
(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: <b>≥70% of Cmin</b>
(p-4)	Measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration: <b>IEC 62623</b>
(q)	Sequence of steps for achieving a stable condition with respect to power demand:: <b>Power on -&gt; Wait 5 minutes -&gt;Stable condition</b>
(r)	Description of how sleep and/or off mode was selected or programmed: <b>Begin menu -&gt; Power -&gt; Select sleep or off mode</b>
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: <b>NA</b>
(t)	<b>Duration of idle state condition before the computer automatically reaches sleep mode</b> , or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes): <b>30min</b>
(u)	<b>Length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode</b> (in minutes): <b>NA</b>
(v)	<b>Length of time before the display sleep mode is set to activate</b> after user inactivity (in minutes): <b>10min</b>
(w)	Information on the energy-saving potential of power management functionality <b>Refer to User Guide</b>
(x)	User information on how to enable the power management functionality: <b>Refer to User Guide</b>
(z)	Test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing: <b>230V50HZ-2%-Edition 2.0, 2011-01, Section 4, IEC62301</b>

#### Addition Notebook Battery Information:

	Battery[ies] <b>not</b> user replaceable The battery[ies] in this product cannot be easily replaced by users themselves. <sup>1)</sup>	Battery[ies] user replaceable	n/a
Internal/built-in Battery	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
External/detachable Battery	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bios Backup Battery	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### Additional information


1)  
 The battery[ies] in this product cannot be easily replaced by users themselves.  
 Аккумуляторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители.  
 Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.  
 Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.  
 Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.  
 Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.  
 Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.  
 Η μπαταρία[ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες.  
 La/les batterie(s) présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.  
 Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.  
 La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente.  
 Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us).  
 Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti.  
 A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni.  
 Il-batterija/batteriji f'dan il-prodott ma tistax/jistghux tiġi/jiġu sostitwita/i mill-utenti stessi.  
 Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.  
 De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.  
 Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.  
 A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.  
 Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.  
 Batériu(-ie) v tomto výrobku nemôže vymeniť používateľ.  
 Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.  
 Tämä tuotteen akku [akut] ei[vät] ole helposti käytettävän vaihdettavissa.  
 Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.  
 Bu üründe ki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.