



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

Annex B2 - Product environmental attributes 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.

Brand *	Lenovo	Logo				
Company name *	Lenovo					
Contact information *	Lenovo Global Environmental Affairs		Lenovo			
e-mail address	Alvin L Carter		LCIIOVO			
	alcarter@lenovo.com					
Internet site *	http://www.lenovo.com/social responsibility/us/en/environment.html					
Additional information						

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.						
Type of product *	Monitor					
Commercial name *	ThinkVision L24e-20					
Model number *	65DF					
Issue date *	2018/5/14					
Intended market *	Global Europe Asia, Pacific & Japan Americas Other					
Additional information						

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.

Model number *	65DF	Logo	Lonovo
Issue date *	2018/5/14		Lei IOVO.

Product	Requirement me			
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\boxtimes		
P1.2*	Products do not contain Asbestos (see legal reference).	\boxtimes		
	Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\boxtimes		
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-			
	trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated		_	
P1.4	terphenyl (PCT) in preparations (see legal reference).	\boxtimes	Ш	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the	>	$\overline{}$	
1 1.5	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).		Ш	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week			
	(see legal reference).		ш	ш
	Comment: Max limit in legal reference when tested according to EN1811:2011-5.			
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	X		
	http://www.lenovo.com/social_responsibility/us/en/environment.html		_	
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal			\boxtimes
	symbol. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See lega			\boxtimes
	reference)			
P2.3*	Batteries and accumulators are readily removable. (See legal reference)		Ш	\boxtimes
P3	Conformity verification & Eco design (ErP)			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference).	\boxtimes		
	The Declaration of Conformity can be requested at (add link or e-mail address):			
P3.2*	The product complies with the Eco design requirements for energy-related products,	\boxtimes		
	(see legal reference).			
	Required information is; given in item P15 or added to this document,	\boxtimes		
	available at (add URL):			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium an	d 🔀		
	hexavalent chromium by weight of these together.			
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s	;) 🔀		
DC 0*	used (see legal reference).			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference).	al 🔀	Ш	Ш
	Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).			

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 *	65DF	Logo		Longvo
Issue date *	2018/5/14			LEI IOVO"

Product	t environmental attributes - Market requirements (See General NOTE GN below)				
		Requirement met			
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
P7	Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	\boxtimes			
P7.2*	Plastic materials in covers/housing have no surface coating.		\square		
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.				
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\boxtimes			
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes			
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes			
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			\boxtimes	
P7.8*	Upgrading can be done using commonly available tools			\boxtimes	
P7.9	Spare parts are available after end of production for: 5 years				
P7.10	Service is available after end of production for: 5 years				
	Material and substance requirements				
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):				
P7.12	Material type: PC Material type: PC Material type: Insulation materials of external electrical cables are PVC free.			_	
P7.12		- -		_	
P7.13	Insulation materials of internal electrical cables are PVC free.	/		<u> </u>	
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, an polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in part containing more than 25% post-consumer recycled content.	d	Ш		
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)	v			
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking:				
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: chemical name, CAS #:				
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:				
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations i concentrations above 0,1%: 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: "	1 			
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:				
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been				
	assigned the following Risk phrases; and Hazard statements:				
	The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)				
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):	\boxtimes			
	If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 41.09%. (EPEAT calculation) / 85% (TCO calculation) or b) The weight of recycled material is 535.5 g.				

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model nun	imber * 65DF				Logo	Lenovo.			
Issue date	ate * 2018/5/14					Len	OVC	J _{th}	
Product 6	environn	nental at	tributes - Market r	equirements (conti	nued)		Requi	remer	nt met
Item							Yes	No	n.a.
	Material	and subs	stance requirements	(continued)					
P7.21*	Biobaseo	l plastic m	naterial content is used	I in the product (See N	OTE B7):			\boxtimes	
				s below shall be answe					
	 a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is 0%. 								
	or total plastic by weight) is 0 %.								
	b) The weight of the biobased plastic material is <i>0</i> g.								
P7.22*			ree from mercury, i.e. specify: Number of lan	less than 0,1 mg/lamp.	um mercury content pe	er lamp: mg			
P8	Batteries		- ,		, , , , , , , , , , , , , , , , , , , ,	, <u>, , , , , , , , , , , , , , , , , , </u>			
P8.1*	Battery c	hemical c	omposition:						\boxtimes
P9			tion (See NOTE B8)						
P9.1		roduct the		s or energy consumption		_			
Energy mo	de *		Power level at	Power level at	Power level at	Reference/Standa		nergy	
ENERGY S	TAD@ Or	Modo*	100 V AC	115 V AC	230 V AC	modes and test m ENERGY STAR®			
(System Idl		woue	10.111	10.077	10.744	Requirements for	0		
(Oyotom idi	<u> </u>					Monitors: Ver. 7.0			
ENERGY S		w Power	0.1W	0.1W	0.2W	ENERGY STAR®			
Sleep Mode	e*					Requirements for Monitors: Ver. 7.0			
			0.09W	0.09W	0.13W	ENERGY STAR®			
ENERGY S Apparent C		1				Requirements for	Computer		
Аррагені С	ii wode					Monitors: Ver. 7.0			
PTEC *	_		W	W	W				
Typical Ene	ergy Consi	umption	44.45 kWh/year	44.97 kWh/year	44.74 kWh/year	$E_{TEC} = (8760/1000)$	1) v /D v /	061	
Annual Ene	erav Consi	ımption	44.45KVVII/yeai	44.97 KVVII/yeai	44.74 KVVII/yeai	$P_{\text{sleep}} \times 0.1 + P_{\text{idle}}$).U T	Ш
			cy Level (International	Efficiency Marking Pro	otocol) * :	- Group			
			<u> </u>			ENERGY STAR®	Program		
Display res	olution* :	1920*108	30 megapixels			Requirements for			
						Monitors: Ver. 7.0			
Default time	e to enter	enerav sa	ve mode: 15 seconds			ENERGY STAR® Requirements for			
Doladit till	o to oritor	onorgy ou	TO MODO. TO COCOMICO			Monitors: Ver. 7.0			
P9.2*	Informati	on about t	the energy save functi	on is provided with the	product.		\boxtimes		
P9.3*	P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: 7.0 Product category: Display .								
P10									
	Noise en	nission –	<u>_</u>	ISO 9296 (See NOTE					
P10.1	Mode		Mode description		Statistical upper lim	it A-weighted sound	power leve	I, LWA,c	(B)
	Idle		HDD: Idle		^				Щ.
	Operation * HDD: Operating *								
	Other mo			d pressure level (dB) $L_{p An}$					
	Other mo	ode D	eclared A-weighted soun	d pressure level (dB) L_{pAn}	(operator po	sition desktop – opera	ating)		
	Measure	d accordir	ng to: 🔀 ISO 7779 🗌	ECMA-74					
			Other	only if not covered by	ECMA-74)				

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

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

Model nu	mber *	nber * 65DF Logo									
Issue dat	e *	2018/5/14			L	eno	VO.	н			
Product	environr	nental attribute	s - Market requirer	nents (cor	ntinued)			R	equire	ment	met
Item			•	•	•				Yes	No	n.a.
	Electron	magnetic emissio	ns								
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):								\boxtimes		
P12	Ergono	mics for computin	ng products								
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.										
P12.2*	The phy	sical input device r	neets the requirement	s of ISO 999	95 and ISO 9241-	410.					
P13	Packagi	ing and documen	tation								
P13.1*	Product Product Product	packaging materia packaging materia packaging materia packaging materia	Il type(s): PE Bag Il type(s): Paper Il type(s): Carton	weight (ko weight (ko weight (ko weight (ko	g): 0.03 g): 0.02						
P13.2*	Product	plastic primary pac	ckaging is free from P	VC.					\boxtimes		
P13.3*											
P13.4*			product documentation Other	on (tick box)							
P13.5	Ùser and		item if paper documentation on paper media							\boxtimes	
	Totally c	hlorine-free									
	,	al chlorine-free							Ħ		
		ed chlorine-free									
P14	Volunta	ry programs									
P14.1			uirements of the follow	ving voluntar	y program(s):						
	Eco-labe	el:	Criteria version: 7. Criteria version: Criteria version:	1	Date: 4/25/18 Date: Date:	Product ca Product ca Product ca	ategory:	splays			
P15		nal information (S									
P9			specific configuration								
	informat knowled	ion contained in thi ge available at the I here is approxima	representations, guar- is document. All inforn time of completion, at ate and provided for in	nation provided and supplier s	led by supplier in hall have no oblic	this document gation to updat	is provide e such info	d based ormation	on supp . The inf	olier's formati	ion
P9	See Ene	ergy Star Qualified	Monitors & Displays for //products/office_equi								

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