



CABINET OF MINISTERS OF UKRAINE
RESOLUTION

No. 156 of 27 February 2019
Kyiv

**On Approval of the Technical Regulation on Ecodesign
Requirements for Simple Set-top Boxes**

In accordance with [Article 5](#) of the Law of Ukraine ‘On Technical Regulations and Conformity Assessment’, the Cabinet of Ministers of Ukraine hereby **resolves**:

1. To approve the [Technical Regulation on Ecodesign Requirements for Simple Set-top Boxes](#), as attached.
2. The State Agency on Energy Efficiency and Energy Saving shall ensure the implementation of the Technical Regulation approved by this Resolution.
3. To introduce to the [list of types of products subject to state market surveillance by state market surveillance bodies](#), approved by the Resolution of the Cabinet of Ministers of Ukraine No. 1069 of 28 December 2016 (Official Journal of Ukraine, 2017, No. 50, p. 1550), amendment, as attached.
4. This Resolution shall enter into force after six months following its publication.

Prime Minister of Ukraine

VOLODYMYR GROYSMAN

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APPROVED
by the Resolution of the Cabinet of Ministers of Ukraine
No. 156 of 27 February 2019

TECHNICAL REGULATION
on Ecodesign Requirements for Simple Set-top Boxes

General part

1. The Technical Regulation on Ecodesign Requirements for Simple Set-top Boxes (hereinafter referred to as 'Technical Regulation') establishes ecodesign requirements for simple set-top boxes.

This Technical Regulation is based on the Commission Regulation (EC) No 107/2009 of 4 February 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for simple set-top boxes.

2. For the purpose of this Technical Regulation the terms shall have the following meaning:

1) 'active mode(s)' means a condition in which the equipment is connected to the mains power source and at least one of the main functions providing the intended service of the equipment has been activated;

2) 'second tuner' means a part of the simple set-top box available for independent recording while allowing to watch a different programme;

3) 'conditional access' (CA) means a provider-controlled broadcasting service requiring a market subscription television service;

4) 'simple set-top box' means a stand-alone device which, irrespectively of the interfaces used:

has the primary function of converting standard-definition (SD) or high-definition (HD), free-to-air digital broadcast signals to analogue broadcast signals suitable for analogue television or radio;

has no 'conditional access' (CA) function;

offers no recording function based on removable media in a standard library format.

Simple set-top box can be equipped with the following additional functions and/or components which do not constitute a minimum specification of a simple set-top box:

time-shift and recording functions using an integrated hard disk;

conversion of high-definition (HD) broadcast signal reception to high-definition (HD) or standard-definition (SD) video output;

second tuner;

5) 'standby mode' means a condition where the simple set-top box is connected to the mains power source, depends on energy input from the mains power source to work as intended and provides only the following functions, which may persist for an indefinite time: reactivation function and/or information or status display;

6) 'automatic power down' means a function which switches the active mode of a simple set-top box into standby mode after a period in the active mode following the last user interaction and/or channel change;

7) 'information or status display' means a continuous function providing information or indicating the status of the equipment, including a clock in a display;

8) 'reactivation function' means a function enabling the activation of other modes of a simple set-top box, including active mode, by remote switch, including remote control, internal sensor, timer to a condition providing additional functions, including the main function.

Other terms used herein shall have meanings set out in the Laws of Ukraine 'On Technical Regulations and Conformity Assessment', 'On State Market Surveillance and Control of Non-Food Products', 'On Standardization', 'On General Safety of Non-Food Products' and in the Technical Regulation Establishing a Framework for the Setting of Ecodesign Requirements for Energy-Related Products, approved by the Resolution of the Cabinet of Ministers of Ukraine No. 804 of 3 October 2018 (Official Journal of Ukraine, 2018, No. 80, p. 2678).

Ecodesign Requirements

3. The ecodesign requirements for simple set-top box are laid down [Annex 1](#) to the Technical Regulation.

Conformity Assessment

4. Conformity of simple set-top boxes with the requirements of this Technical Regulation shall be assessed by applying the internal design control procedure or the management system conformity assessment procedure set out, respectively, in [Annexes 3](#) and [4](#) to the Technical Regulation Establishing a Framework for the Setting of Ecodesign Requirements for Energy-Related Products, approved by the Resolution of the Cabinet of Ministers of Ukraine No 804 of 3 October 2018 (Official Journal of Ukraine, 2018, No 80, p. 2678).

State Market Surveillance

5. Verification of conformity of simple set-top boxes with the requirements of this Technical Regulation in the course of state market surveillance shall be made in accordance with the requirements laid down in [Annex 2](#) to the Technical Regulation.

Indicative benchmarks

6. The indicative benchmarks for best-performing simple set-top boxes available on the market are laid down in [Annex 3](#) to the Technical Regulation.

Correlation table

7. The correlation table of the provisions of Commission Regulation (EC) No 107/2009 of 4 February 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for simple set-top boxes and of the Technical Regulation is set out in [Annex 4](#) to the Technical Regulation.

Annex 1
to the Technical Regulation

**ECODESIGN REQUIREMENTS
for Simple Set-top Boxes**

1. One year after the [Technical Regulation on Ecodesign Requirements for Simple Set-top Boxes](#) (hereinafter referred to as the ‘Technical Regulation’) has come into force, simple set-top boxes placed on the market shall not exceed the following power consumption limits:

	Standby mode	Active mode
Simple set-top box	1 W	5 W
Allowance for display function in standby	+ 1 W	
Allowance for decoding HD signals		+ 3 W

Simple set-top boxes with an integrated hard disk and/or second tuner are exempt from the requirements stipulated in this Annex.

2. Three years after the [Technical Regulation](#) has come into force, simple set-top boxes placed on the market shall not exceed the following power consumption limits:

	Standby mode	Active mode
Simple set-top box	0,5 W	5 W
Allowance for display function in standby	+ 0,5 W	
Allowance for hard disk		+ 6 W
Allowance for second tuner		+ 1 W
Allowance for decoding HD signals		+ 1 W

3. One year after this [Technical Regulation](#) has come into force, simple set-top boxes shall provide standby mode.

4. One year after this [Technical Regulation](#) has come into force, simple set-top boxes shall be equipped with an ‘automatic power-down’ or similar function with the following characteristics:

the simple set-top box shall be automatically switched from active mode into standby after less than three hours in active mode following the last user interaction and/or a channel change with an alert message two minutes before going into standby mode;

the ‘automatic power-down’ function shall be set as default.

5. The power consumption referred to in [points 1](#) and [2](#) of this Annex shall be established by an accurate and reproducible measurement procedure, which takes into account the generally recognised

state of the art.

6. For the purposes of conformity assessment, the technical documentation shall contain the following information:

1) for standby and active modes:

the power consumption data in W rounded to the second decimal place including consumption data for the different additional functions and/or components;

the measurement method used;

period of measurement;

description of how the appliance mode was selected or programmed;

sequence of events to reach the mode where the equipment automatically changes modes;

any notes regarding the operation of the equipment;

2) test parameters for measurements:

ambient temperature;

test voltage in V and frequency in Hz;

total harmonic distortion of the electricity supply system;

the fluctuation of the power supply voltage during the tests;

information and documentation on the instrumentation, set-up and circuits used for electrical testing;

input signals in RF (for digital terrestrial broadcasts) or IF (for satellite broadcasts);

audio and video test signals as described in the MPEG-2 transport stream;

adjustment of controls.

The power requirements of peripheral devices powered by the simple set-top box for broadcast reception, such as active terrestrial antenna, satellite low-noise block (LNB) or any cable or telecom modem are not required to be included in the technical documentation.

7. Manufacturers shall ensure that consumers using simple set-top boxes are provided with information on the power consumption in Watts rounded to the first decimal place of standby and active modes of the simple set-top box.

REQUIREMENTS
for verifying conformity of simple set-top box with the requirements of the
Technical Regulation on Ecodesign Requirements for Simple Set-top Boxes
during state market surveillance

1. The verification tolerances referred to in this Annex are to be applied by state market surveillance authorities in verification of the measured parameters and shall not be used by the manufacturer or importer to establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.

2. The verification of conformity of simple set-top boxes with the requirements of the **Technical Regulation on Ecodesign Requirements for Simple Set-top Boxes** (hereinafter referred to as ‘Technical Regulation’) shall be carried out by state market surveillance authorities taking into account the following requirements:

1) one simple set-top box per model shall be tested;

2) a simple set-top box model shall be considered to comply with the requirements of the Technical Regulation if:

performance indicators given in the technical documentation and the values used to calculate these indicators are not more favourable for the manufacturer or importer than the results of the corresponding measurements;

the declared values meet the requirements laid down in the Technical Regulation, and the necessary product information provided by the manufacturer or importer does not contain indicators that are more favourable for the manufacturer or importer;

when the state market surveillance authorities test the simple set-top box, the determined parameters and the values comply with the respective verification tolerances as given in **Table 1** of this Annex;

3) if the results referred to in the **second** or **third indent** of subpoint 2 of this point are not achieved, the model shall be considered not to comply with the requirements of the Technical Regulation;

4) if the result referred to in the **fourth indent** of subpoint 2 of this point is not achieved, the state market surveillance authorities shall select three additional simple set-top boxes of the same model for testing. The model shall be considered to comply with the requirements of the Technical Regulation if, for those simple set-top boxes, the arithmetical mean of the determined values complies with the respective verification tolerances given in **Table 1** of this Annex;

5) if the result referred to in **subpoint 4** of this point is not achieved, the model shall be considered not to comply with the requirements of the Technical Regulation.

3. The state market surveillance authorities shall use the measurement and calculation methods set out in **Annex 1** to the Technical Regulation.

The state market surveillance authorities shall only apply the verification tolerances that are set out in **Table 1** of this Annex, taking into account the requirements set out in **subpoints 1 to 5** of point 2 of this Annex. No other tolerances, such as those set out in the national standards that are identical to the European harmonised standards or in any other measurement method, shall be applied.

Verification tolerances

Parameters	Verification tolerance
For power consumption above 1 W	shall not exceed the declared value by more than 10 %
For power consumption less than or equal to 1 W	shall not exceed the declared value by more than 0,1 W

**INDICATIVE
benchmarks for simple set-top boxes**

The indicative benchmarks for simple set-top boxes available on the market at the date, when the **Technical Regulation** on Ecodesign Requirements for Simple Set-top Boxes enters into force, are the following:

for simple set-top boxes without any additional features:

active mode: 4 W;

standby mode excluding the display function: 0,25 W;

off-mode: 0 W;

for simple set-top boxes with an integrated hard disk:

active mode: 10 W;

standby mode excluding the display function: 0,25 W;

off-mode: 0 W.

The above indicative benchmarks are established on the basis of a simple set-top box with a basic configuration, an 'automatic power down' function and a hard-off switch.

CORRELATION TABLE
**of the provisions of Commission Regulation (EC) No 107/2009 of
4 February 2009 implementing Directive 2005/32/EC of the European
Parliament and of the Council with regard to ecodesign requirements for
simple set-top boxes and of the **Technical Regulation on Ecodesign
Requirements for Simple Set-top Boxes****

Provisions of the Commission Regulation (EC)	Provisions of the Technical Regulation
Article 1	point 1
First indent of Article 2	first indent of point 2
Article 2(1)	seventh indent of point 2
Article 2(2)	fifteenth indent of point 2
Article 2(3)	sixteenth indent of point 2
Article 2(4)	fourth indent of point 2
Article 2(5)	third indent of point 2
Article 2(6)	second indent of point 2
Article 2(7)	fifth indent of point 2
Article 2(8)	sixth indent of point 2
Article 3	point 3
Article 4	point 4
Article 5	point 5
Article 6	point 6
Article 7	point 7
Article 8	
Article 9	
Annex I	Annex 1

Annex II

Annex III

Annex 2

Annex 3

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No. 156 of 27 February 2019

AMENDMENT
to be introduced to the list of types of products subject to state
market surveillance by state market surveillance authorities

The [list](#) shall be supplemented with point 46 to read as follows:

‘46. Simple set-top boxes	Resolution by the Cabinet of Ministers of Ukraine No. 156 of 27 February 2019 ‘On Approval of the Technical Regulation on Ecodesign Requirements for Simple Set-top Boxes’	State Service of Ukraine on Food Safety and Consumer Protection’.
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