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Ref.-No.: 14/09-0016



ECO - TEST

Model : DTIW77 HD Boxer ref. 253587085-A01	TESTED MODEL
Client : SAGEMCOM	
Product : Set Top Box	
Sample : 01 of 01	
Serial-No. : 614340050447	

TPP	Reference: 14/05-0042
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Remarks: + Adaptor TenPao S024ACV1200150 P/N: 191217541-xx

Following tests are done		pass	fail
N 4	Power consumption	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Applied standard(s) and validity	2010	2011	2012	2013	2014	2015
2009/125/EC:2009 (EC Regulation 1275/2008 + 801/2013)				●	—————→	
2009/125/EC:2009 (EC Regulation 278/2009)					—————→	

Start date of standard: ●————— End date of standard: —————> End of standard unknown: —————>

	Date	Name		ECO	<input checked="" type="checkbox"/> released
Effected / Counter checked	21.11.2017	Ho	/		<input type="checkbox"/> not released

N4 – Power consumption

based on EN 50564:2011 / acc. 2009/125/EC

Commission Regulation (EC) No 1275/2008 and 801/2013 - applicable for household appliances, information technology & consumer equipment and toys

Reference No.:	14/09-0016		Test conditions and equipment: - The measured power consumption in Watts is rounded to the second decimal place. - The measurement circuit and supply source (harmonic distortion) is according EN 61000-3-2. - The measurement is done with a true RMS power analyser Voltech PM3000A. - Electric supply source: California Instruments 4500L. - Testing room: Free from air draught; - Illumination level: -/- lx. - Ambient temperature: 23 +/- 5 °C
Product:	Set Top Box		
Sample:	01		
Date:	21.11.2017		
Operator:	Be/Si		
Remarks:	No information about network function provided.		
Test location:	<input checked="" type="checkbox"/> Messh. 2	<input type="checkbox"/> Lab. 6	

Rated Supply Voltage: 100-240V (adaptor)	Test Voltage: 230,0V (THC < 2%): / 50Hz (+/- 1%)
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Requirements:

Mode :	Limits :		
OFF	1,00W (from Jan/2010)	0,50W (from Jan/2013)	
STANDBY MODE (without status information)	1,00W (from Jan/2010)	0,50W (from Jan/2013)	
STANDBY MODE (with status information)	2,00W (from Jan/2010)	1,00W (from Jan/2013)	
POWER MANAGEMENT	-/-	0,50W/1,00W (from Jan/2013)	
NETWORKED STANDBY MODE (with HiNA functionality) (*)	12,00W (from Jan/2015)	8,00W (from Jan/2017)	
NETWORKED STANDBY MODE (without HiNA functionality) (*)	6,00W (from Jan/2015)	3,00W (from Jan/2017)	2,00W (from Jan/2019)

(*) "NETWORKED STANDBY" means a condition in which the equipment is able to resume a function by way of remotely initiated trigger from a network connection.

"NETWORKED EQUIPMENT" with High Network Availability functionality (HiNA Equipment) means equipment with one or more of the following functionalities, but no other, as the main function(s): router, network switch, wireless network access point, hub, modem, VoIP telephone, video phone.

The limits for networked standby not applicable for large format printing equipment, desktop thin clients, workstations, mobile workstations, small-scale servers, computer servers.

No limits required for tele-presence systems and printers with rated power supply > 750 W till Jan/2017.

Remark: From Jan/2015, the information for networked equipment shall be made publicly available on freely accessible websites.

For each standby and/or off mode the power consumption and the period of time after which the power management function automatically switches shall be given.

In addition power consumption of the product in networked standby if all wired network ports are connected and all wireless network ports are activated and a guidance on how to activate and deactivate network ports shall also be included in the user manual.

Final Test Result
(see page 2 for details)

fail

pass

N4 – Power consumption

based on EN 50564:2011 / acc. 2009/125/EC

Commission Regulation (EC) No 1275/2008 and 801/2013 - applicable for household appliances, information technology & consumer equipment and toys

Reference No.:	14/09-0016
Product:	Set Top Box

Measurement results:

Mode	Description how the appliance mode was selected or programmed	Measured (average)	Limit	Result
OFF	-/-	---	0,50 W (2)	---
STANDBY (without status information)	switched to STANDBY - (red LED active)	0,42W	0,50 W (2)	o.k.
STANDBY (with status information)	-/-	---	1,00 W (2)	---
NETWORKED STANDBY (with HiNA functionality)	-/-	---	8,00 W (4)	---
NETWORKED STANDBY (without HiNA functionality)	-/-	---	3,00 W (4)	---
POWER MANAGEMENT (#)	Rec. CH 25 DVB-T signal after 4:30 h without user interaction - apparatus switched automatically to STANDBY - (red LED active)	0,42W	0,50W (2)	o.k.

(#) When equipment is not providing the main function, or when other energy-using product(s) are not dependent on its functions, the power management function, shall switch equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into standby mode, or off mode, or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source.

The power management function shall be activated.

The default period of time after which the power management function, or a similar function, switches the equipment automatically into a condition providing standby, shall not exceed following limits.

Maximal delay time for automatically power down function :	Limit	Result
Networked standby mode (3)	20 minutes	---
Domestic drip filter coffee machines with insulated jug after last brewing cycle (3)	5 minutes	---
Domestic drip filter coffee machines with non-insulated jug after last brewing cycle (3)	40 minutes	---
Other domestic coffee machines after last brewing cycle (3)	30 minutes	---
Other domestic coffee machines after activating of heating element (3)	30 minutes	---
Other domestic coffee machines after activating of cup preheating function (3)	60 minutes	---
All coffee machines after a descaling or self-cleaning process (3)	30 minutes	---

Possibility of deactivating wireless network : (3)	Result
Remark: wired network selected in menu	o.k.

Note: (1) = Limit from Jan/2010
(2) = Limit from Jan/2013
(3) = Limit from Jan/2015

(4) = Limit from Jan/2017
(5) = Limit from Jan/2019

N4 – Power consumption

acc. 2009/125/EC

Commission Regulation (EC) No 278/2009
applicable for external power supplies

Reference No.:	14/09-0016
Product:	Set Top Box
Sample:	01
Date:	08.09.2014
Operator:	Be
Remarks:	

Test location:	<input type="checkbox"/> Lab. 2	<input type="checkbox"/> Lab. 6	<input checked="" type="checkbox"/> Messh. 2
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Test Voltage:	230,0V / 50Hz	Ambient temperature:	21 °C
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Type of supply:	AC-DC external power supply		
Rated supply Voltage:	100-240 V		
Rated output Power P _o :	-/- W		
Rated output Voltage:	12.0 V	Rated output current I _o :	1500 mA

Requirements and Measurement results:

Ecodesign Requirement	Limit (from Apr/2010)	Limit (from Apr/2011)	Measured	Result
No-load condition	0,50 W	0,30 W	0,13 W	o.k.
Average active efficiency	0,76	0,80	0,85	o.k.

Remarks:

Test conditions, equipment and definitions:

- The measured power consumption in Watts is rounded to the second decimal place.
- The measurement circuit and supply source (harmonic distortion) is according EN 61000-3-2.
- The measurement is done with a true RMS power analyser Voltech PM3000A.
- Electric supply source: California Instruments 4500L.
- Low voltage external power supply: $U_{out} < 6V / I_{out} \geq 550mA$.
- Output power P_o = output power rating according nameplate.
- Active mode efficiency = ratio of input to output power of the external power supply.
- Average active efficiency = average of the active mode efficiencies at 25%, 50%, 75% und 100% of I_o.
- NA = Not Applicable / No-load condition.

Final Test Result

fail

pass

N4 – Power consumption

acc. 2009/125/EC

Commission Regulation (EC) No 278/2009
applicable for external power supplies

Attachment to Reference No.:	14/09-0016
Product:	Set Top Box

RMS input voltage:	230,0V / 50Hz				
Load condition:	1	2	3	4	5
RMS output current in mA:	1500	1125	750	375	NA
RMS output voltage in V:	12,35	12,37	12,40	12,43	NA
Active output power in W:	18,53	13,92	9,30	4,66	NA
RMS input power in W:	21,64	16,26	10,96	5,59	0,13
THD in %:	0,91	0,83	0,80	0,72	0,40
True power factor:	0,43	0,40	0,37	0,32	0,04
Efficiency:	0,86	0,86	0,85	0,84	NA
Average efficiency:	0,85				NA

Remarks: Load condition according (EC) No 278/2009



**TESTED
IN GERMANY**

Attachment to Test-Report-No.: 14/09-0016

Product: Set Top Box

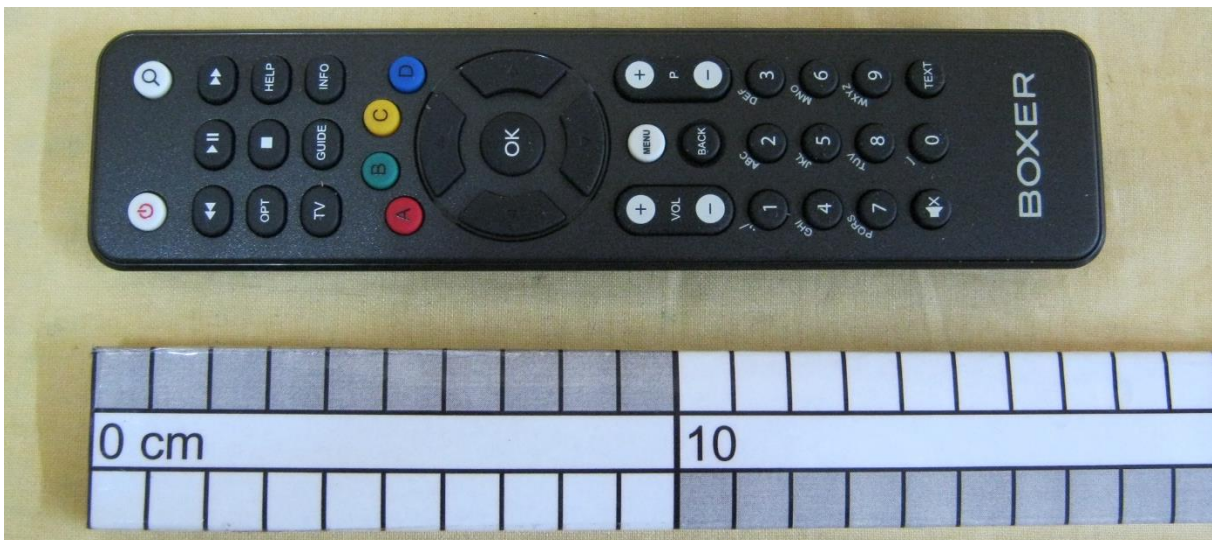




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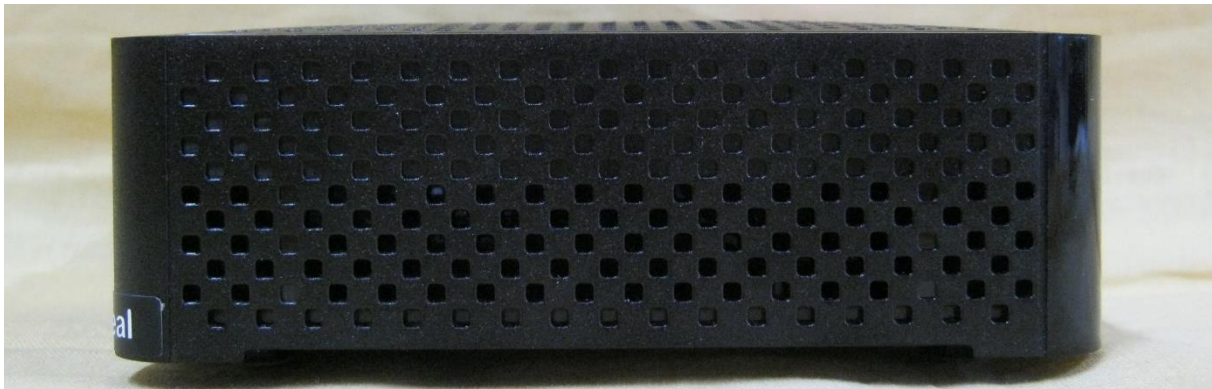
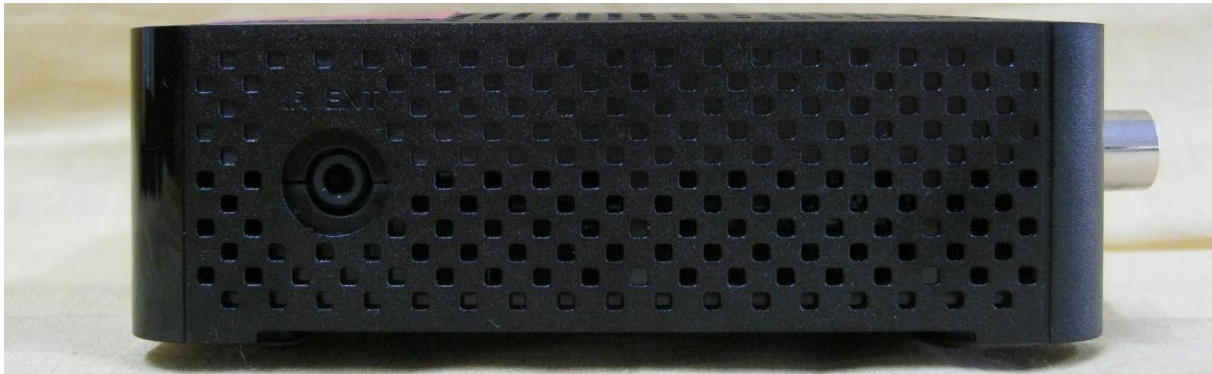




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