



**EuP Lot 3  
Third Stakeholder Meeting**

**Task 7 Video player and recorders**

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# Definition

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**Based on the definition risk assessment, a video player/recorder is a stand alone device whose primary function:**

- **Decodes video to a to an output audio/video signal**
- **from recorded or recordable media via a powered or integrated media interface such as an optical drive, USB or HDD interface**
- **Has no tuner unless it records on a removable media in a standard library format**
- **Is primarily mains powered**
- **Does not have a display for viewing video**
- **A tuner decodes broadcast signals to audio/video signal.**
- **An industry agreed format defining file structure, media encoding and physical format which is provides media compatibility across products.**

# Example products, exclusions

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## In

- Blu-ray, DVD
- Hard disc (no tuner)

## Out

- VCR
- Professional
- Streaming/thin client
- Set top boxes merging with video recorders
- High end?

# Power modes

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## Not doing anything useful – Idle

- Standby
- Fast start

## Doing something useful – active

- Includes background, secondary functions
- Playback, recording
- Live pause TV

# Minimum requirements

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- **Not creating adders for every possible mode**
- **Not restricting innovation, features, functionality**
- **Focus on largest energy risk for particular use – function of time and power consumption**
- **Good power management of functions when unused**

# Power and energy

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- **Idle – TEC**
  - Risk of 8+W for 18hr/day of 1W under standby reg
  - Restrict to 19Wh/day including declaration of time in fast start
- **Play mode (local media)**
  - 10 W for SD (inc upscale)
  - 20W for HD or 15W average for SD and HD
- **Live pause tv – 13W**

**No adders for network or anything else since no reason to be active**

# Auto power down

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**½ hr for player only**

**3 hr for recorder**

**APD must be active by default and has secondary warning if deactivated in initial set up menu**

# Other ecodesign

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- **PVCs, BFRs etc**
  - Not confined to VRs and no reasons specific to VRs.
- **Light weighting**
  - How to specify
  - Trade off between substances
  - Form factor
- **Continue with horizontal measures**

# EU Energy/EU eco label/procurement

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- **Labels and procurement to recognise most efficient products**
- **But narrowed range in power with MEP**
- **Instead require high energy consuming modes to be permanently disabled?**
- **Or LCA label - EPEAT**

# Energy Savings and assumptions

Year	Savings (TWh)
2015	8.6
2020	10.6

## Base case

	on-record (hr)	on-play (hr)	live-pause (hr)	fast start (hr)	standby (hr)
DVD player		0.75		0.5	18
DVD recorders	0.25	0.75		2.3	18
DVD recorder with hard disk drives	0.25	0.75	9	2.3	10
Blu-ray player		0.75		14.25	5
Blu-ray recorders	0.25	0.75		14	5
Blu ray recorders with hard disk drives	0.25	0.75	9	5	5
Other future video recorders	0.25	0.75		14	5

## Policy IM

on-record (hr)	on-play (hr)	live-pause (hr)	idle TEC
	0.75		1
0.25	0.75		1
0.25	0.75	4	1
	0.75		1
0.25	0.75		1
0.25	0.75	4	1
0.25	0.75		1

# Info requirements

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- **On power for standard definition and high definition playback where available (W)**
- **Live pause power consumption where available (W)**
- **Idle mode TEC (kWh/year)**
- **APD time (hr)**
- **Product weight (kg)**
- **Use of BFRs etc**

# Testing

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**Standby should be measured in line with IEC62301 and Commission Regulation No 1275/2008.**

**Fast start can be measured in a similar procedure to standby**

**Live pause should be measured in line with the on-mode power measured for Commission Regulation No 107/2009 (which standard?).**

**On-play can be measured in line with U.S. ENERGY STAR on audio/video 2.0. This should be performed using the IEC62087 video content in standard/high definition.**

**To fully address all testing requirements, the Commission should mandate the European Standards Organisation to agree on-play and fast start power management.**

# Impact assessment

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**Allows sufficient time for integration in design cycle**

**No additional R&D but reallocation of budget**

**No additional cost or proprietary tech but might not fall as quickly  
– mitigate race to the bottom**

**Exclusion for high end products – allows innovation and reduces forward risk. Expectation of efficient implementation when mainstreamed.**

**Fast start limit may still be challenging, power vs transition time for consumer**