

TV Test Conditions - Peripherals

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What do we mean

- **Devices that are inbuilt as part of the TV**
 - **Video Recorders/Players**
 - DVD
 - Hard Disks
 - **Conditional Access Cards**
 - **Alternative Tuners i.e. Cable Satellite**
 - **Memory Slots i.e. SD, Memory Sticks etc.**

Possible Definition

- **Addition features that involve the reception of TV signals are not peripheral**
 - Additional Tuners
 - Conditional Access
 - Various digital and Analog inputs
- **Features that extend the function of the TV into other product categories such as recorders are Peripheral devices**
 - DVD and Hard Drive Recorders
 - Memory Cards
 - Networking

To measure or not to measure

To measure

- More accurate
- Better consumer Guidance
- Encourages Power Management

Not to measure

- What Duty Cycle?
- Determining Power Modes
- What is the Impact
- Predicting the Future

Measurement Advantages

- **Becomes part of the energy use profile and therefore encourages power management to achieve better ratings**
- **May provide Consumers with better power consumption information**
- **Maybe more accurate**

Duty Cycle and Power Modes

- **How is the duty cycle determined?**
- **Is there a common or average duty cycle?**
- **What power modes are used and how to detect them?**
 - **Passive Standby**
 - **Active Standby**
 - **ON**

TV and Peripheral Power Use

- **TV Power is rapidly heading to >200W**
- **DVD and Hard Disk drives <20W**
- **Limit Peripheral Device Standby**
 - TVs ON for 4-6 hours
 - Recording device used <4-6 hours
 - Encourages Power Management
- **Future Use**
 - Time Shift Recording
- **How much product are we talking about?**

Conclusion

Let's Discuss