



Scope

All types of monitors: cathode ray tube (CRT), flat panel display (e.g. a liquid crystal display) or other display devices and its associated electronics, including monitors with universal serial bus (USB) for connection of external devices to the PC through the monitor. The models concerned must be available through the trade in Europe in the same configuration as indicated in the registration. The product as sold to the customer should be able to operate on mains voltage (230 V AC). This includes portable equipment that is sold with an external power supply.

Criteria

Monitors comply with GEEA criteria if the following criteria are met:

Category	Criteria	Basis for criteria
All monitors	The power consumption in the off mode is 1 W or less	ENERGY STAR
	The power consumption in the sleep mode is 2 W or less.	ENERGY STAR
	The power consumption in the on mode is less than or equal to: <ul style="list-style-type: none"> • Resolution less than 1 mega-pixel: 23 W • Resolution larger than or equal to 1 mega-pixel: 28 W • resolution in mega-pixels* 	ENERGY STAR

* The 28 W is to be multiplied by the resolution in mega-pixels. E.g. if the resolution is 1280 by 1024 pixels, the resolution in mega-pixels is 1.31072 and the maximum power consumption is 36.7 W (1.31072 * 28 W).

Definition

Term	Definition
Off	The lowest power consumption mode which cannot be switched off (influenced) by the user and that may persist for an indefinite time when a computer monitor is connected to the main electricity supply and used in accordance with the manufacturer's instructions. For purposes of this specification, off mode is defined as the power state when the product is connected to a power source, produces no images, and is waiting to be switched to on mode by a direct signal from a user/computer (e.g., user pushes power switch).
Sleep mode	The reduced power state that the computer monitor enters after receiving instructions from a computer or via other functions. A blank screen and reduction in power consumption characterize this mode. The computer monitor returns to on mode with full operational capability upon sensing a request from a user/computer (e.g., user moves the mouse or presses a key on the keyboard).
On mode	The product is connected to a power source and produces an image. The power requirement in this mode is typically greater than the power requirement in sleep and off modes.

Monitors with USB should have the USB ports enabled i.e. connected to the PC, but no external devices connected.

Test method

Test procedures for measuring operation modes (off, sleep and power) must comply with the test protocol described in ENERGY STAR Program Requirements for Computer Monitors Eligibility Criteria (Version 4.1), Test Methodology

Basis for criteria

ENERGY STAR: ENERGY STAR Program Requirements for Computer Monitors Eligibility Criteria (Version 4.1)