



## Frequently Asked Questions

### Energy Efficiency of Scan2Net Scanners

#### Abstract

All Scan2Net-scanners manufactured by Image Access, whether they are from the Bookeye or the WideTEK family, are highly energy efficient. They all have one feature in common which is the built-in computer. Basically, they are a scanner and a computer in one device and therefore, they do not fall into the device classes specified by ENERGY STAR. This FAQ lists all the power consumptions of the various Bookeye and WideTEK scanner families. Assuming our scanners are only a simple scanner rather than a scanner/PC combination, the off-mode and sleep-mode power consumption is compared to the specifications derived from the current [ENERGY STAR guidelines](#). As can be seen, most Scan2Net-scanners consume between 30% and 75% of the maximum power allowed by the agency for simple USB-scanners. If a customer compares these against a competitive product with the need of an external PC, the power consumption for the PC must be added for a fair comparison. If done so, the customer will see that there is almost no other professional scanner/PC combination on the planet that is more energy efficient than any Scan2Net scanner.

#### 1. Confidentiality

Status	Interested Party	Source	PDF
Public Information	Image Access Support	Yes	Yes
	Authorized Service Providers	No	Yes
	Image Access Customers	No	Yes

#### 2. Revision History

Date	Rev.	Name	Description of Change	Reason of Change
06.09.2022	1.0	TI	Initial Version	

**ENERGY STAR Version 3.2 Conformance Evaluation**

Effective Date of Evaluation 09/2022

Scanner	A product whose primary function is to convert documents into electronic images that can be stored, edited, converted, or transmitted. This definition is intended to cover products that are marketed as scanners.	WideTEK® 48 WideTEK® 44	WideTEK® 36 WT36-ART	WideTEK® 60CL WideTEK® 48CL	WideTEK® 36CL	WideTEK® 25	WideTEK® 12 Spectrum	WideTEK® 24F	Bookeye® 5 V1A	Bookeye® 5 V2(A), V3(A)
$P_{(off)}$	The power state that the scanner enters when it has been manually switched off but is still plugged in and connected to mains. This mode is exited when stimulated by an input such as the manual power switch on all Scan2Net scanners.	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
$P_{(sleep)}$	A reduced power state that scanner enters either automatically after a period of inactivity configurable in the software or in response to a user action like pressing a button or invoking a software action.	4,7	4,7	6,5	2,8	5,9	4,1	4,5	5,4	4,6
$P_{(ready)}$	The normal power state in which the scanner has reached operating conditions and is ready to scan immediately responding to any potential inputs like a software command, a button or foot pedal or any other user action.	60	60	30	25	35	28	35	120	40
$P_{(active)}$	The power state in which the scanner has reached operating conditions and actually scans, performs image functions, transfers data or any other operation. This is the maximum power the scanner can consume from the primary side.	120	120	50	45	72	55	70	200	110
$V_{(in)}$	Input voltage of External Power Supply CEC LEVEL VI	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC	100-240 V AC
$P_{(in)}$	Input power of External Power Supply CEC LEVEL VI	180 VA	180 VA	60 VA	60 VA	180 VA	180 VA	180 VA	180 VA	180 VA

Rule	Equation 15: Calculation of maximums sleep mode power Consumption requirement for OM products.									
$P_{(max\_base)}$	Table 9: Sleep mode power allowance for scanner [W]	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
$P_{(add\_USB2)}$	Table 10: Functional adder allowance USB 2.0 (0,4W/n) [W]	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4	0,4
$P_{(add\_USB3)}$	Table 10: Functional adder allowance USB 3.0 (0,5W/n) [W]	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
$P_{(add\_1GB)}$	Table 10: Functional adder allowance 1GB/s TCPIP (0,5W/n) [W]	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5
$P_{(add\_TCH)}$	Table 10: Functional adder allowance touch Screen (0,2W) [W]	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2	0,2
$P_{(add\_MEM)}$	Table 10: Functional adder allowance memory (0,5W/GB) [W]	8	8	8	4	4	4	4	4	4
$P_{(max\_sleep)}$	Maximum allowed sleep mode power [W]	12,1	12,1	12,1	8,1	8,1	8,1	8,1	8,1	8,1

$P_{(max\_OFF)}$	ENERGY STAR REQUIREMENT measured off mode power [W]	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3
$P_{(sleep)}$	ENERGY STAR REQUIREMENT measured sleep mode power [W]	4,5	4,7	6,5	2,8	5,9	4,1	4,5	5,4	4,6
$P_{(max\_sleep)}$	Individual maximum allowed sleep mode power [W]	12,1	12,1	12,1	12,1	8,1	8,1	8,1	8,1	8,1
	Safety margin [%]	63%	61%	46%	65%	27%	49%	44%	33%	43%
	ENERGY STAR Evaluation Result	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant	EnergyStar compliant

[Excel sheet source](#)