TOUGHBOOK 40 Certifications

Ingress Protection

The products are tested and certified[1] by an independent test lab facility located in the United States according to the IP code defined in the international standard IEC 60529. Rather than vaguely describing equipment as "waterproof" or "dustproof", the IP Code uniformly quantifies various levels of resistance to liquids, particulates and solid objects. The numbers following the letters "IP" represent the specific degree of protection provided by electrical enclosures. The first digit indicates the ingress of dust at a level that will not have a harmful effect on the operation of the unit. The second digit indicates that water sprayed from all directions will not compromise the computer's functioning. Higher numbers indicate a higher tolerance to dust and water. For example, a unit with an IP65 rating will withstand both elements better than a unit with an IP54 rating. **DOWNLOAD REPORT**

MIL-STD-810H

Certified for a wide range of extreme conditions including drops[1], shocks, vibration, humidity, altitude, temperature extremes, thermal shock and much more. Each test conducted has been certified by independent lab testing. **DOWNLOAD REPORT**

MIL-STD-461G

Tested for electromagnetic interference (EMI) and electromagnetic compatibility (EMC) in Panasonic's R&D facility in Japan and certified by a third party. The certification ensures electromagnetically compatible with other nearby electronic equipment. This computer does not generate unwanted electromagnetic energy that could interfere with the operation of other equipment, nor are susceptible to the effects of unwanted electromagnetic energy from equipment in the same vicinity. **DOWNLOAD REPORT**

ENERGY STAR Qualification

ENERGY STAR, a joint program between the U.S. Environmental Protection Agency and U.S. Department of Energy, offers voluntary qualification for products that are energy efficient. The ENERGY STAR program sets high standards designed to save energy, save money and help protect the environment for future generations. Panasonic is one of nearly 20,000 organizations that have become ENERGY STAR partners, all working to promote, sell, or improve products, homes, and buildings that use less energy and qualify for the ENERGY STAR.

ENERGY STAR for computers raises the efficiency bar dramatically. If all computers sold in the US meet ENERGY STAR requirements, the savings in energy costs will grow to more than $1.5 billion each year, reducing greenhouse gas emissions equivalent to those from 2 million vehicles. ENERGY STAR establishes efficiency requirements for all modes of a product's operation, which ensures energy savings when a product is active and running basic applications, as well as in low power modes. Qualifying products must also include an internal power supply that is at least 80 percent efficient. Select TOUGHBOOK sku's have qualified for the latest specification, ensuring the highest level of environmental performance. **READ MORE**

EPEAT Certification

EPEAT is an easy-to-use, online tool to help purchasers in the public and private sectors evaluate, compare and select products based on their environmental attributes. EPEAT also provides a clear and consistent set of performance criteria for the design of products and provides an opportunity for manufacturers to secure market recognition for their efforts to reduce the environmental impact of its products. Select TOUGHBOOK sku's and models comply to EPEAT, ensuring the highest level of environmental performance. **READ MORE**

ISO Certification

Since 1996, all Panasonic manufacturing plants worldwide—including the factory in Kobe, Japan—have achieved ISO 14001 registration and implemented the ISO 14001 Environmental Management System. The Kobe factory has also been certified for ISO 9001, an international standard for quality management systems that enhance product quality assurance and customer satisfaction.

International Organization for Standardization (ISO) is an international federation promoting the development of international manufacturing, trade, and communication standards. ISO 14000, a series of standards, provides the framework for managing the environmental impacts of an organization.

The ISO 14001 international standard established a systematic approach that organizations can use to minimize or prevent environmental impacts and risks. This approach, known as an Environmental Management System or EMS, requires the organization to establish an environmental control policy, educate employees about procedures and continually monitor environmental performance.

RoHS Compliance

For manufacturers of electronic equipment, the main impact of RoHS is that only lead-free products can be sold in Europe. Panasonic has therefore shifted to lead-free solder. By selling RoHS-compliant products in all countries, not just Europe, Panasonic helps eliminate hazardous electronic waste materials from landfills and waste dumps around the world. **READ MORE**

VPAT & Section 508 Standards

Section 508 was enacted to eliminate barriers in information technology, to make available new opportunities for people with disabilities, and to encourage development of technologies that will help achieve these goals. Electronic and information technology procured by Federal agencies must meet Section 508's requirements for accessibility.

TOUGHBOOK® mobile computers have long been designed and manufactured with access-friendly features, such as touchscreens and the ability to be mounted on wheelchairs. In addition, Panasonic works closely with Microsoft to ensure that TOUGHBOOK computers can take full advantage of the accessibility features built into Windows®. Panasonic continually endeavors to make all its products more accessible to, and usable by, individuals with disabilities. In fact, Panasonic worked with ITIC (Information Technology Industry Council) in developing the Section 508 "Buy Accessible" template, and also actively participates in the GSA (General Services Administration) sponsored Accessibility Forum. **DOWNLOAD VPAT 508 REPORT**

[1] Tested by national independent third party lab following MIL-STD-810H Method 516.8 Procedure IV for transit drop test and IEC 60529 Sections 13.4, 13.6.2, 14.2.5 and 14.3 for IP53.