



PRODUCT: Display P190S
 REGULATORY MODEL: P190Sb
 EFFECTIVE DATE: January 26, 2011

Dell Inc.
 www.dell.com

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I. PRODUCT SAFETY¹

The product has been certified and bears the Mark, as applicable, of the Product Safety authorities as indicated below.

| Country/Region | Authority or Mark |
|----------------|----------------------------|
| Argentina | TUV-IRAM |
| Belarus | BELLIS |
| Canada | SCC |
| China | CNCA or CCC |
| Croatia | KONCAR |
| European Union | CE |
| Germany | TUV |
| IECEE | IECEE CB |
| Israel | SII |
| Kazakhstan | OTAN – CKT |
| Kenya | KEBS |
| Kuwait | KUCAS |
| Mexico | NYCE or NOM |
| Moldova | INSM |
| Nigeria | SONCAP |
| Norway | NEMKO |
| Russia | GOST |
| Saudi Arabia | KSA ICCP |
| Serbia | KVALITET |
| Singapore | Safety Registration Scheme |
| South Africa | NRCS |
| South Korea | KC |
| Taiwan | BSMI |
| Ukraine | UKRTEST or UKRSERTCOMPUTER |
| United States | NRTL |
| Uzbekistan | STZ |

¹ The above-listed Product Safety certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.



II. ELECTROMAGNETIC COMPATIBILITY²

The product has been certified and bears the Mark, as applicable, of the EMC authorities as indicated below.

| Country/Region | Authority or Mark | Class |
|--|----------------------------|---------|
| Australia / New Zealand | ACMA or C-Tick | Class B |
| Belarus | BELLIS | Class B |
| Bosnia & Herzegovina, Montenegro, Serbia | KVALITET | Class B |
| Canada | ICES | Class B |
| China | CNCA or CCC | Class B |
| Croatia | KONCAR | Class B |
| European Union | CE | Class B |
| Israel | SII | Class B |
| Japan | VCCI | Class B |
| Kazakhstan | OTAN – CKT | Class B |
| Moldova | INSM | Class B |
| Russia | GOST | Class B |
| South Africa | SABS | Class B |
| South Korea | KCC | Class B |
| Taiwan | BSMI | Class B |
| Ukraine | UKRTEST or UKRSERTCOMPUTER | Class B |
| United States | FCC | Class B |
| Uzbekistan | STZ | Class B |

III. ERGONOMICS, ACOUSTICS AND HYGIENICS³

The product has been certified and bears the Mark, as applicable, of the Ergonomics, Acoustics and Hygienics authorities as indicated below.

| Country/Region | Authority or Mark |
|----------------|-------------------|
| Germany | GS |
| Russia | GOST |

IV. POWER CORDS AND USER DOCUMENTATION

Dell products are provided with the power cord and user documentation suitable for the intended country of delivery. Products that are relocated to other countries should use nationally certified power cords and plugs to ensure safe operation of the product. Contact Dell to determine if alternate power cords or user documentation in other languages is available for your market.

V. DATASHEET RESPONSIBLE PARTY NAME AND ADDRESS

Dell Inc.
Department: Global Regulations and Standards
MS: PS4-30
Round Rock, Texas 78682, USA
512-338-4400
Regulatory_Compliance@Dell.com

² The above-listed EMC certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.

³ The above-listed Ergonomics, Acoustics and Hygienics certifications may vary depending upon the location of the Dell factory and specific product configuration. Certification marks may not be applied on products for countries outside the purchaser's country.



VI. SYSTEM DIMENSION AND WEIGHT

| Depth, cm | Width, cm | Height, cm | Weight, kg |
|-----------|-----------|------------|--|
| 18.2 | 41.01 | 49.26 | 6.4 (May vary with additional options installed) |

VII. DECLARATIONS AND CERTIFICATIONS

This system received the following approvals and may be labeled with one or more of these marks depending on point of purchase:

| Approvals | Certificate # | Yes / No / N/A |
|--|------------------------------------|-------------------|
| USA: Energy Star Capable | N/A | Yes |
| USA: * EPEAT | Link below for registration status | Varies by Country |
| Nordic: TCO 03 (monitors only) | 03:0907:1464 | Yes |
| China: China Energy Certification Program (CECP) | CQC09701033905 | Yes |

* EPEAT registered where applicable/supported see product links for respective registration status by country: [Desktops](#), [Monitors](#), [Notebooks](#), [Workstation-Desktops](#), and [Workstation-Notebooks](#).

Information on Dell’s participation in various Eco-labels and Green Standards can be found [here](#).

Dell is a member of the Electronic Industry Citizenship Coalition (<http://www.eicc.info/>)

Through internal design controls and supply chain declarations, this system has been verified to comply with the EU RoHS Directive. For more details, see www.dell.com/rohsinfo.

All Dell products shipping directly into China which are manufactured on or after March 1st, 2007, will be China RoHS compliant. For more details, see www.dell.com/chinarohs.

All Dell products shipping to South Korea are compliant with South Korea RoHS requirements, declarations [here](#).

Information on Japan RoHS (J-MOSS) chemical disclosures is available [here](#).

REACH (Registration, Evaluation, Authorization and Restriction of Chemicals, EC 1907/2006) is the European Union’s (EU) chemical substances regulatory framework. Dell complies with the REACH directive. For more details, see www.dell.com/REACH

Dell’s Energy Star qualified products are listed on the EPA website [here](#)



VIII. PERFORMANCE DATA

Energy Consumption⁴

| Service Level | Energy Consumption (Wattage) | BTU Calculation | Description of Service Level |
|---------------|------------------------------|-----------------|--|
| Maximum | 21.28 | 72.7776 | The system is running programs to maximize the power consumption |
| On mode | 16.62 | 56.8404 | The product is connected to a power source and produces an image |
| Sleep Mode | 0.537 | 1.83654 | The reduced power state the display enters after receiving instructions from a content source (e.g. computer, game console, or set-top box), or via other functions (e.g. timers or sensors). A blank screen and reduction in power consumption characterize this mode. The display returns to On Mode with full operational capability upon sensing a signal from a source or function that can initiate that can initiate the reduced power state. |
| Off | 0.462 | 1.58004 | The system is turned off but is still connected to its AC power source |

Energy consumption is tested at 230 Volts / 50 Hz. Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour. Off data is not meant to show compliance to US Executive Order 13221. When applicable, Dell product information related to US Executive Order 13221 may be obtained at: <http://oahu.lbl.gov/index.html>.

⁴ This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.



IX. PRODUCT MATERIALS INFORMATION⁵

Restricted Substances

This Dell product does **NOT** contain any of the following substances (in concentrations exceeding legal threshold limits):

- Asbestos
- Azo dyes/colorants in components that come into direct contact with human skin
- Cadmium and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Class I and Class II CFCs (chlorofluorocarbons) and HCFCs (hydrofluorocarbons)
- Chloroparaffins, short chained (10-13 carbon chain)
- Chromium VI and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Halogenated dioxins or furans (i.e. polychlorinated dibenzodioxines, polychlorinated dibenzofurans)
- Lead and its compounds (except for use in applications exempted by the EU RoHS Directive)
- Mercury (except for use in applications exempted by the EU RoHS Directive)
- Nickel and its compounds in components that are likely to result in prolonged skin exposure
- PCBs (polychlorobiphenyls) or PCTs (polychloroterphenyls)
- PBBs (polybromobiphenyls) or PBDEs (polybrominated diphenylethers)
- PVC (polyvinyl chloride) in plastic parts greater than 25 grams
- Polychlorinated naphthalenes (PCNs)
- Tributyl tin (TBT) and triphenyl tin (TPT) compounds

For information on Japan RoHS (J-MOSS) chemical disclosures: www.dell.com/japan_rohs.

Additional Materials Information

- The cables may use PVC as an insulating material to ensure product safety
- The case material is ABS
- Product may contain post-industrial recycled content (plastics, metal, glass)

Mercury Information

| Number of bulbs | Average per bulb |
|-----------------|------------------|
| 2 | < 3 mg |

Flame Retardants Used in Mechanical Plastic Parts > 25 grams and Motherboards

| Part | Flame Retardant | ISO 1043-4 |
|-------------|-----------------|------------|
| Motherboard | N/A | N/A |

⁵ **Waste Handling.** Local regulations should be observed when disposing of this product due to the presence of the materials and substances as listed above.



X. PACKAGING

No CFCs (chlorofluorocarbons), HCFCs (hydrofluorocarbons) or other ozone depleting substances are used in packaging material. Chromium, lead, mercury, or cadmium are not intentionally added to packaging materials and are not present in a cumulative concentration greater than 100 ppm as incidental impurities. No halogenated plastics or polymers are used for packaging material. Dell complies with the EU Directive 94/62/EEC.

| Packaging Materials | Weight, kg |
|----------------------------|------------|
| Carton | 0.83 |
| Expanded Polystyrene (EPS) | 0.317 |
| LDPE | 0.01 |

Printed user documentation is bleached in a chlorine-free process. (Europe Only)

XI. DESIGN FOR ENVIRONMENT

Longevity and Upgrading

Dell systems are, when applicable, designed for easy assembly, disassembly, and servicing. To extend the life of your system, you can install or upgrade certain system components (e.g., microprocessor, memory, expansion cards, and storage devices). Spare parts are available after the end of production for up to five years, or otherwise through the warranty period.

Recyclability

For recyclability, this system incorporates the following design guidelines:

- EU WEEE mark is applied to products sold in Europe, EU recycling information can be found at www.euro.dell.com/recycling
- Minimal use of non-separable connections, such as gluing and welding between different materials.
- Minimal use of composite structure materials.
- Mechanical plastic parts greater than 100 grams consist of one material or of easily separable materials.

XII. RECYCLING/ END-OF-LIFE SERVICE INFORMATION

Take back and recycling services are offered for this product in certain countries. If you want to dispose of system components, contact Dell for instructions by emailing recycling_emea@dell.com or visit www.dell.com/recyclingworldwide and select the relevant country.

XIII. DELL CORPORATE ENVIRONMENTAL INFORMATION

Information on Dell's Environmental initiatives, policies, programs and goals can be found at www.dell.com/environment.

Product Safety, EMC and Environmental Datasheets for Dell products are located at:

www.dell.com/regulatory_compliance_datasheets