



# CHAPTER 1

## Important Safety and Compliance Information

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Revised April 2, 2009

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**Warning**

Cisco sold this LCD Professional Series display to you with the expectation that you will attach it to a Cisco Digital Media Player (DMP) for use in your digital signage network or enterprise TV network. In this way, your LCD display is an accessory for the DMP to which it is attached. The regulatory compliance information for that DMP extends to all its accessories, including this LCD display. See the printed regulatory compliance document that you received with your DMP. Alternatively, see the most recent revision of that document on Cisco.com, at [http://www.cisco.com/en/US/products/ps7220/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/ps7220/prod_installation_guides_list.html).

This chapter contains warnings, cautionary messages, and statements of compliance with international regulations that supplement the compliance statements for your DMP. Read this chapter carefully in combination with the *Regulatory Compliance and Safety Information* document on Cisco.com that pertains to your DMP, and always use this product correctly.

Failure to heed all recommendations can lead to bodily harm, equipment failure, property damage, signal interference, and other consequences.

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## About Electrical and Fire Dangers

Read all of the Cisco user documentation and product literature concerning proper operation and maintenance of your LCD display.

Mishandling this product and its accessories might cause fire, personal injury, electric shocks, or product damage that is preventable otherwise. Be sure to follow these guidelines:

Always...	Never...
<ul style="list-style-type: none"> <li>• Always keep candles and other open flames away from your LCD display.</li> <li>• Always use only the provided power cord and connect its polarized plug to a properly grounded power outlet.</li> <li>• Always ensure that the power cord is plugged into the power outlet firmly and correctly.</li> <li>• To disconnect your LCD display from the mains, the polarized plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.</li> <li>• Always grip the polarized plug tightly when you unplug it from a outlet.</li> <li>• Always unplug the power cord from its outlet before cleaning.</li> <li>• Always unplug your LCD display from the power outlet and disconnect the antenna or cable system during electrical storms and whenever your display is left unattended or unused for long periods of time (especially when children, older adults, people with severely impaired judgment, or people with severely impaired physical coordination will be left alone with it).</li> <li>• Always lay power cords where they are not likely to be walked on or pinched by items placed upon or against them, and pay particular attention to plugs, adaptors, and the point where the power cord attaches to your LCD display.</li> <li>• Always ensure before connecting the AC power cord to the DC adaptor outlet that the voltage designation of the DC adaptor corresponds to the local electrical supply.</li> <li>• Always disconnect your LCD display immediately if it emits any unusual sounds or odors or otherwise does not operate normally, and then contact a qualified and licensed technician immediately.</li> </ul>	<ul style="list-style-type: none"> <li>• Never use the power cord from any other product.</li> <li>• Never touch the power plug with wet hands when removing or plugging the plug into the outlet.</li> <li>• Never expose your LCD display to dripping or splashing.</li> <li>• Never expose your LCD display to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, near a swimming pool, or in any similar setting). If your LCD display is wet, unplug it and contact a licensed technician immediately.</li> <li>• Never use a damaged power cord or plug.</li> <li>• Never use a damaged or loose power outlet.</li> <li>• Never forcefully bend or pull the power plug.</li> <li>• Never place any heavy objects on the power plug.</li> <li>• Never connect multiple appliances to the same power outlet, and never overload power outlets, extension cords or adaptors beyond their capacity.</li> <li>• Never disconnect the power cord while using your LCD display.</li> <li>• Never insert anything metallic into the open parts of your LCD display.</li> <li>• Never open your LCD display and never remove its cover or its back. High voltage is present inside. It is dangerous to make any kind of contact with anything inside this product. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.</li> <li>• Never touch the inside of your LCD display. Only qualified personnel should open it.</li> <li>• Never allow dust to accumulate on your LCD display or its power cord.</li> <li>• Never drop your LCD display or impart any shock to it. If it is damaged, disconnect the power cord and contact a qualified and licensed technician.</li> <li>• Never place your LCD display near or over a radiator or heat resistor, or where it is exposed to direct sunlight.</li> <li>• Never place any vessel that holds water (such as a vase) on your LCD display.</li> </ul>


# About Choosing the Proper Installation Site

The ideal installation site for your LCD display is a high-visibility location with physical stability that:

- Allows for adequate ventilation and clearance.
- Is protected from heat sources.
- Is not readily accessible to children or others who might lack the personal judgment or physical coordination to recognize, avoid, and prevent danger to themselves and others.

To learn more about choosing the proper site for installations and about our recommended best practices that promote your safety and success, see [Table 1-1](#).

**Table 1-1**      **Attributes of a Proper Installation Site**

Consideration	Details
Environmental factors	<p>If the installation site for your display is one where it will operate 24 hours a day, such as an airport or train station, or where its will be exposed to:</p> <ul style="list-style-type: none"> <li>• Heavy dust</li> <li>• High or low temperatures</li> <li>• High humidity</li> <li>• Chemical substances</li> </ul> <p>Be sure that only a qualified technician performs the installation. Personnel who are not qualified might not understand how to prevent serious damage to your LCD display that can occur in such settings.</p>
Ventilation and clearance	<p>To ensure reliable operation of your display and to protect it from overheating, which might result in fire:</p> <ul style="list-style-type: none"> <li>• Install your display in a well ventilated location with more than 10 cm clearance from the wall.</li> <li>• Never block or cover the slots and openings in the display cabinet, including those on the back and bottom. They provide necessary ventilation.</li> <li>• Never cover the slots and openings with a cloth or other materials.</li> <li>• Never block the slots and openings by placing your display on a bed, sofa, rug or other similar surface.</li> <li>• Never place your display in a confined space, such as a rack, bookcase, closet, or built-in cabinet, unless it provides sufficient ventilation.</li> </ul>
Heat sources	<p>Protect your display from combustible materials and from sources of additional heat.</p> <ul style="list-style-type: none"> <li>• Never operate this product near lit candles, mosquito repellent, cigarettes, or any heating appliances.</li> <li>• Keep heating appliances as far away from the power cord and the display as possible.</li> </ul>
Physical stability	<p>Do not install your LCD display in an unstable location such as a poorly anchored shelf, a slanted floor, or a location exposed to vibration.</p>
Child safety	<div>  <p><b>Warning</b>    <b>Keep all accessories and product package materials out of reach of young children.</b></p> </div> <p>Do not allow children to dangle or hang from the display at any time.</p>

# About Installing Your Display Safely

Cisco LCD Professional Series displays are not designed to stand freely on the floor. They must be installed correctly in an appropriate mount, bracket, stand, rack, or cabinet.

**Warning**

**Dropping this equipment, handling it roughly, or allowing it to fall might damage it or cause personal injury.**

- Ensure that at least two persons lift and move the display.
- When putting the display down, be sure to put it down softly.
- Never place the display face-down on the floor.
- When installing the display in a cabinet or rack, make sure that the front end of the bottom of the product does not project out. Use a cabinet or rack of a size appropriate to the product.
- If the display will be mounted to a wall, ensure that a qualified contractor installs the wall mount, and make sure that the wall mount is designed specifically for a display like yours.
- Some installation sites have attributes that can cause serious damage to your display. Contact Cisco or a Cisco-authorized Digital Media Systems partner before installing your display in any physical location where it will be exposed to heavy dust, high or low temperatures, high humidity, or chemical substances, or anywhere that it will operate continuously for more than 20 hours at a time, such as an airport, a train station, or a similar setting.

# About Cleaning Your Display Safely

- [Cleaning the LCD Display Surface, Case, and Housing Safely, page 1-4](#)
- [Cleaning the Power Plug and the Electrical Outlet Safely, page 1-5](#)

## Cleaning the LCD Display Surface, Case, and Housing Safely

Disconnect the power cord and use the soft cotton flannel cleaning cloth that shipped with your LCD display. Moisten the cloth slightly with LCD panel cleanser or use water. If you must use a cleanser that is not formulated specifically for use with LCD display panels, dilute it with water at a ratio of 1:10.

- Wipe the display case.
- Wipe the surface of the TFT-LCD screen.
- To prevent product discoloration, structural distortion, erasure of printing, and peeling of the screen surface, never spray any cleanser directly onto any surface of your display. In particular, avoid using any cleanser formulation that contains wax, acetone, benzene, alcohol, paint thinner, or any other flammable or corrosive substance.
- Because the display housing is easily scratched, use the specified cloth only. As your LCD display may be scratched if there is any foreign material on the cloth, shake the cloth thoroughly before using it.

## Cleaning the Power Plug and the Electrical Outlet Safely

Disconnect the power cord and use the soft fabric cleaning cloth that shipped with your LCD display.

- To prevent electric shock, fire, and malfunctions that might occur as a result of improper cleaning:
  - Never moisten the cloth when you clean the power plug pins or dust the power outlet. Always use the cloth dry.
  - Never spray water directly onto the main body of your LCD display. Ensure that water does not enter your LCD display and that it is not wet.
- To prevent changes in the appearance of the product surface and peeling of stickers from its surface from cleaning, never use any formulation that contains wax, acetone, benzene, alcohol, paint thinner, or any other flammable or corrosive substance.

## About Batteries



### Note

Product kits that shipped before **April 2, 2009** include AAA batteries for your remote control. After this date, **the product kit no longer includes these batteries, which are sold separately.**

The remote control for your LCD display uses batteries. In your community there might be environmental and safety regulations that require you to dispose of these batteries properly. To learn how these requirements affect you, contact your local authorities.

Store batteries and all other accessories in a location where they are safely out of the reach of children.

Do not dispose of batteries in a fire.

Do not short circuit, disassemble or overheat batteries.

There is a danger of explosion if you use the wrong type of batteries. Replace batteries only with the same type (or its equivalent) that you received from Cisco.

## Regulatory Compliance Notes and Notices

Your LCD display is marked to indicate its compliance with standards set forth by the prevailing regulatory agencies in multiple regions, including but not limited to these:

- **USA**—Federal Communications Commission (FCC) and other agencies
- **Canada**—Industry Canada Equipment Standard for Digital Equipment (ICES-003)
- **Japan**—Voluntary Control Council for Interference (VCCI)
- **Taiwan**—Bureau of Standards Metrology and Inspection (BSMI)
- **Europe**—Conformité Européenne (CE)
- **Republic of Korea**—Ministry of Information and Communication (MIC)
- **Italy**—Italian Post Ministry (Homologation)
- **Sweden**—Swedish Board for Technical Accreditation (SWEDAC)
- **Norway**—Norges Elektriske Materiellekontroll (NEMKO)
- **Russia**—Gosstandart; Gosudarstvennyy Standart (GOST)

## United States

- [FCC Class A Notice, page 1-6](#)
- [FCC Class B Notice, page 1-6](#)
- [User Information, page 1-7](#)
- [Important Safety Instructions \(UL Only\), page 1-7](#)
- [EPA, page 1-8](#)
- [Mercury Statement, page 1-8](#)

### FCC Class A Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### FCC Class B Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## User Information

This LCD display shows television closed captioning in accordance with Section 15.119 of FCC rules.

To maintain FCC compliance for your LCD display, you must use shielded signal cables.

A detachable power supply cord with IEC320-style terminations is provided with your LCD display.

- For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap.
- For 240 Volt applications use only UL Listed detachable power supply cord with NEMA configuration 6-15P type (tandem blades) plug cap.

Changes or modifications not expressly approved by the original equipment manufacturer can void your authority to operate this LCD display. If necessary, consult with your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called *How to Identify and Resolve Radio/TV Interference Problems* helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4.

## Important Safety Instructions (UL Only)

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with manufacturer instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.

12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

**Warning**

**To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.**

## EPA

This product meets the ENERGY STAR guidelines for energy efficiency.

## Mercury Statement

Contains mercury. Dispose according to local, state or federal laws.

## Canada

- [ICES-003 Class A Notice \(Avis NMB-003, Classe A\), page 1-8](#)
- [ICES-003 Class B Notice \(Avis NMB-003, Classe B\), page 1-8](#)

### ICES-003 Class A Notice (Avis NMB-003, Classe A)

This Class A digital apparatus complies with Canadian ICES-003. *Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.*

### ICES-003 Class B Notice (Avis NMB-003, Classe B)

This Class B digital apparatus complies with Canadian ICES-003. *Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.*

## Japan

- [VCCI Class A Notice, page 1-9](#)
- [VCCI Class B Notice, page 1-9](#)



## VCCI Class A Notice

この装置は、情報処理装置等電波障害自主規制協議 (VCCI) の基準に基づくクラスA情報技術装置です。  
この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。  
この場合には使用者が適切な対策を講ずるよう要求されることがあります。

## VCCI Class B Notice

この装置は、情報処理装置等電波障害自主規制協議 (VCCI) の基準に基づくクラスB情報技術装置です。  
この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。  
取扱説明書に従って正しい取り扱いをして下さい。

## Taiwan—BSMI Class A Notice

The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

警告使用者：

這是甲類資訊類產品，在居住環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

## Republic of Korea

### MIC Class A Notice

업무용 방송통신기기 A급기기



이 기기는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

### MIC Class B Notice

가정용 방송통신기기 B급기기

이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

## Europe and its Member Nations

- [European Notice, page 1-10](#)
- [European Class A Warning, page 1-10](#)
- [UK—Wiring the Mains: Power Supply Plug, page 1-10](#)
- [Italy—Homologation Notice, page 1-11](#)
- [Sweden—Swedish Confederation of Professional Employees \(TCO\), page 1-11](#)
- [Norway—Norges Elektriske Materiellekontroll \(NEMKO\), page 1-11](#)

## European Notice

Products with the CE marking comply with the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European norms:

- EN55022: Radio Frequency Interference
- EN55024: Electromagnetic Immunity of Information Technology Equipment
- EN61000-3-2: Power Line Harmonics
- EN61000-3-3: Voltage Fluctuations
- EN55013: Radio disturbance characteristics of broadcast receivers and associated equipment
- EN55020: Electromagnetic immunity of broadcast receivers and associated equipment

## European Class A Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case you may be required to take adequate measures.

## UK—Wiring the Mains: Power Supply Plug

Before disconnecting the power supply plug from the mains, contact Cisco or a Cisco-authorized Digital Media Systems partner.

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used. Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative but to cut off the plug, remove the fuse and then safely dispose of the plug. Do not connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

The wires in the mains lead are coloured in accordance with the following code:

- Blue is neutral.
- Brown is live.

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

- The wire coloured blue must be connected to the terminal marked with the letter N or coloured blue or black.
- The wire coloured brown must be connected to the terminal marked with the letter L or coloured brown or red.



**Warning**

**Do not connect either wire to the earth terminal, which is marked with the letter E, or by the Earth symbol, or is coloured green, or is coloured green and yellow.**

## Italy—Homologation Notice

*Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548 ed in particolare a quanto specificato nell Art.2, comma 1. Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548 Art.2, comma 1 ed al D.M.26.03.92 Art.1.*

- **For products produced in countries except European Community** — *Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548 ed in particolare a quanto specificato nell Art.2, comma 1.*
- **For products produced in European Community** — *Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548 Art.2, comma 1 ed al D.M.26.03.92 Art.1.*

## Sweden—Swedish Confederation of Professional Employees (TCO)

- [MPR II Compliance Notice, page 1-11](#)
- [TCO 95 and TCO 99 Certificates, page 1-11](#)

### MPR II Compliance Notice

This LCD display complies with SWEDAC (MPR II) recommendations for reduced electric and magnetic fields.

### TCO 95 and TCO 99 Certificates

For information about recycling TCO-certified Cisco LCD displays, contact Cisco or a Cisco-authorized Digital Media Systems partner.

## Norway—Norges Elektriske Materiellkontroll (NEMKO)

- [Risk of Hazard Connecting Class I Equipment to Cable Distribution Networks, page 1-11](#)
- [N-mark for Medical Electrical Equipment, page 1-12](#)

### Risk of Hazard Connecting Class I Equipment to Cable Distribution Networks

For Class I equipment in Norway, intended to be connected to cable distribution systems, the screen of a coaxial cable is required to be galvanic isolated from the protective earth.

- Connection to a Cable Distribution System is to be provided through a galvanic isolator.
- *Må kun tilkoples kabel-TV nett via galvanisk isolator.*

## N-mark for Medical Electrical Equipment



### Classifications

In accordance with UL 2601-1/IEC 60601-1, the product is classified as continuous duty Class I equipment, which is not protected against ingress of liquids. The product is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

- Type of protection against electrical shock: Class I.
- Degree of protection against electrical shock (Patient connection): Not applicable.
- Degree of protection against harmful ingress of water: Ordinary equipment.
- Methods of sterilization or disinfection: Not applicable.
- Degree of safety of application in the presence of a flammable anesthetic material with air or with oxygen or nitrous oxide: Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or with oxygen or nitrous oxide.
- Mode of operation: Continuous.

### EMC

This equipment has been tested and found to comply with the limits for medical devices to the IEC 60601-1-2:2001. These limits are designed to provide reasonable protection against harmful interference in a typical medical installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device (s) are connected.
- Consult the manufacturer or field service technician for help.

### Video In / RS 232 / Video Out

Accessories equipment connected to the analog and digital interfaces must be certified to the respective IEC standards (i.e. IEC 60950-1 for data processing equipment and IEC 60601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 60601-1-1. Anyone who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 60601-1-1. If in doubt, consult the technical services department or your local representative.

**Transport and Storage Limitations:**

- Temperature Range of -40°C to +70°C.
- Relative Humidity of 10 -95%, non-condensing.
- Barometric pressure: 700hPa to 1060 hPa.

**Symbols**

This key helps you to recognize and understand important symbols located on labels.



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.



Manufacturer declaration of product compliance with applicable EEC directive(s).



Protective Earth Ground.



AC (alternating current) voltage source.



DC (direct current) voltage source.

Lead, cadmium and mercury are heavy metals which are bio-accumulative. Bio-accumulative substances are those that accumulate within living organisms.

**Russia—GOST-R Quality Certificate (Знак Ростеста - PCT)**

