

Safety Manual

Selenio X85™/X75™

Product Safety Instructions and Regulatory Compliance

Edition D

175-000320-00

Publication Information

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X85/X75

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Important Safety Instructions

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it. Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.

Servicing

Only qualified personnel should perform service procedures. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, including the following:

- Spillage of liquids into the apparatus
- Damage to the power-supply cord or plug
- Exposure of the apparatus to rain or moisture
- Abnormal operation
- Physical damage from dropping

Installing Rack-Mountable Equipment

When installing rack-mountable equipment, it is important that you follow these safety guidelines to avoid personal injury and prevent equipment damage:

Operating Ambient Temperature

Ensure that the operating ambient temperature of the rack environment (air temperature immediately around the rack while equipment is operating) does not exceed the maximum ambient temperature (TMA) specified by the product specifications. See the “Specifications” section of the *Installation and Operation Manual* for information about product operating temperatures.

Proper Air Flow

Ensure that equipment is installed in a manner that allows adequate ventilation for safe operation. Failure to do so may cause your equipment to overheat and become damaged.

Mechanical Loading

Ensure that equipment is mounted in the rack so that the mechanical loading (weight) on the rack is distributed evenly. Uneven or excessive mechanical loading may cause the rack to be unstable, and therefore hazardous.

Circuit Overloading

Ensure that equipment connections to power supply outlets do not overload the power supply circuits. Overloading power supply circuits might cause the overcurrent protection to fail and result in damage to power supply wiring. For information about equipment power consumption, see the equipment nameplate ratings or the “Specifications” section of the *Installation and Operation Manual*.

Reliable Earthing

Ensure that rack-mounted equipment is directly connected to a reliable earthing source, such as a power supply outlet. Overuse of power strips, power surge protectors, and extension cords may not provide reliable earthing (grounding).

Product Damage Precautions



Install Near Socket Outlet

The equipment shall be installed near the socket outlet, and a disconnect device shall be easily accessible.



Fuse Replacement

CAUTION: For continued protection against the risk of fire, replace only with the same type of fuse.

French:

ATTENTION: Remplacer uniquement par un fusible de même type et calibre.

Injury Precautions

French:

AVIS: Risque de choc électrique. Ne pas ouvrir.



Warning!

Potentially lethal voltages are present within this product's frame during normal operation. The AC power cord must be disconnected from the frame before the top panel is removed. (In frames with multiple power supplies, remove ALL power cords.) Power should not be applied to the frame while the top is open, unless properly trained personnel are servicing the unit.

Poland:

Przed zdjęciem pokrywy wyciągnąć wtyczkę z gniazda sieciowego.



Use Proper Power Cord

To avoid fire hazard, use only the power cord specified for this product.



Ground the Product

Do not defeat the safety purpose of the polarized and grounding-type plugs. 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. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



Connect to an Earthed Mains Socket-Outlet

The apparatus must be connected to an earthed socket-outlet.

United Kingdom:

WARNING: This appliance must be earthed.

Norway:

Apparaten må tilkoples jordat stikkontakt.

Finland:

Laite on liitettävä suojamaadoitus-koskettimilla varustettuun pistorasiaan.

Sweden:

Apparaten skall anslutas till jordat uttag.



Do Not Operate Without Covers

To avoid electrical shock or fire hazard, do not operate this product with covers or panels removed.

For Products with Laser Transmitters



Laser Radiation When Open

CAUTION: To avoid damage from laser radiation, do not remove or displace any connections or protective panels. Do not attempt to modify or adjust the laser circuitry. Contact Harris to return the laser sub-module if it is not working satisfactorily.

CLASS 1 LASER PRODUCT
[Finland] LUOKAN 1
LASERLAITE.
[Sweden] KLASS 1 LASER
APPARAT.

CLASS 1
LASER
PRODUCT

Class 1 Laser Product
complies with 21 CFR
1040.10 and 1040.11,
except for deviations
pursuant to Laser Notice
No. 50, dated June 24,
2007.

Transmitter Specifications

Emitted Wavelength: 1310 nm

Maximum Output: 15.6 mW maximum

Pulse Duration: Continuous wave

Standard Information: IEC60825-1:2007

For Products Supplied by IT Power Systems



CAUTION: IT power system shall be isolated from earth, except that one point may be connected to earth through an impedance or a voltage limiter. The parts of the equipment required to be earthed shall be connected to earth electrodes at the user's premises. Protective earthing shall be provided either directly to the equipment or into the mains supply building installation.

For Building Installation Protection



CAUTION: Pluggable equipment type B relies on protective devices in the building installation for protection. The building installation circuit breakers or fuses shall have a rating of AT LEAST 10A or greater for short-circuit or overcurrent protection or, where necessary, for both. The equipment mains fuse is slow blow type fuse rated 3.15A for 250V and marked T 3.15 H 250V.

For Products with Multiple Power Cords



WARNING: To reduce the risk of electric shock, plug each power cord into separate branch circuits employing separate service grounds.



CAUTION: This unit can have more than one power supply cord. To de-energize the internal circuitry, disconnect all power cords before servicing.

Norway:

ADVARSEL: Utstyret kan ha mere enn en tilførselsledning. For å gjøre interne deler spenningsløse må alle tilførselsledningene trekkes ut.

Sweden:

VARNING: Denna apparat har mer än en nätanslutning. Samtliga nätkablar måste bortkopplas för att göra de interna kretsarna spänningsfria.

For Products with Batteries



CAUTION:

DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY PLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

Finland:

VAROITUS: Paristo voi rajahtaa, jos se on virheellisesti asennettu. Vaihda paristo ainoastaan valmistajan suosittelemaan tyyppun. Havita käytetty paristo valmistajan ohjeiden mukaisesti.

Sweden:

VARNING: Explosionsfara vid felaktigt batteribyte. Använd samma batterityp eller en eller en ekvivalent typ som rekommenderas av tillverkaren. Kassera anvant batteri enligt fabrikantens instruktion.

Denmark:

Advarsel Lithiumbatteri. Eksplosionsfare ved fejlagtig handling. Udskiftning må kun ske med batteri af samme fabrikat og type. Lever det brugte batteri tilbage til leverandøren.

Korea:

경고

만약 틀린 전지로 교환했을 경우, 폭발 위험이 가능합니다.
똑같거나, 동등한 종류와 교체하는 것을 제조업자로서 권장합니다.
제조업자의 지시에 따라, 사용된 전지는 버려 주십시오.

Certifications and Compliances

This product has been tested and found to comply with the following IEC, FCC, UL, ICES and CSA standards:

EMC Standards

EMC Standard	Description
EN55103-1	Electromagnetic compatibility—Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use, Part 1: Immunity, Environment E4.
EN55103-2	Electromagnetic compatibility—Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use, Part 2: Emission, Environment E4.

Electromagnetic Compatibility Directive 2004/108/EC.

Additional EMC Information

This device is for professional use in a controlled EMC environment, such as purpose-built broadcast studios. EMC regulations require that the radiation emitted from this unit does not exceed certain limits. These limits are only met when the front panel is closed and secured. Compliance to the EMC regulations is also dependent upon the use of suitably shielded (screened) cables. Coax cables should be of the double-shielded (screened) variety. Unused BNCs should be fitted with 75Ω terminations. All audio cables should be screened with the shield (screen) making good contact with the metallic parts of the cable connectors. D-type connectors used with this unit should always have metallic shells with the shield (screen) of the cable mechanically bonded to the metal shell. It is further recommended that the D-type cable connectors be of the “dimple” variety. These connectors make a better contact and consequently improve EMC performance. Refer to markings on the product for other EMC compliance information.

EU Standards

Restriction on Hazardous Substances (RoHS) Directive

Directive 2002/95/EC—commonly known as the European Union (EU) Restriction on Hazardous Substances (RoHS)—sets limits on the use of certain substances found in electrical and electronic equipment. The intent of this legislation is to reduce the amount of hazardous chemicals that may leach out of landfill sites or otherwise contaminate the environment during end-of-life recycling. The Directive took effect on July 1, 2006, and it refers to the following hazardous substances:

- Lead (Pb)
- Mercury (Hg)
- Cadmium (Cd)
- Hexavalent Chromium (Cr-VI)
- Polybrominated Biphenyls (PBB)
- Polybrominated Diphenyl Ethers (PBDE)

According to this EU Directive, all products sold in the European Union are fully RoHS-compliant and “lead-free.” (See our website for more information.) Spare parts supplied for the repair and upgrade of equipment sold before July 1, 2006 are exempt from the legislation. Equipment that complies with the EU directive are marked with a RoHS-compliant emblem, as shown in [Figure 1](#).



Figure 1. RoHS Compliance Symbol

Waste from Electrical and Electronic Equipment (WEEE) Directive

The European Union (EU) Directive 2002/96/EC on Waste from Electrical and Electronic Equipment (WEEE) deals with the collection, treatment, recovery, and recycling of electrical and electronic waste products. The objective of the WEEE Directive is to assign the responsibility for the disposal of associated hazardous waste to either the producers or users of these products. Effective August 13, 2005, producers or users are required to recycle electrical and electronic equipment at end of its useful life, and may not dispose of the equipment in landfills or by using other unapproved methods. (Some EU member states may have different deadlines.)

In accordance with this EU Directive, companies selling electric or electronic devices in the EU will affix labels indicating that such products must be properly recycled. (See our website for more information.) Contact your local sales representative for information on returning these products for recycling. Equipment that complies with the EU directive is marked with a WEEE-compliant emblem, as shown in [Figure 2](#).



Figure 2. WEEE Compliance Symbol

Safety Standards

Region	Standard	Description
Canada/USA	Bi-national standard CAN/CSA-C22.2 No.60950-1-03/UL 60950-1	First Edition, Information Technology Equipment - Safety - Part 1: General Requirements.
European Union	European standard EN60950-1:2002	First Edition, Information Technology Equipment - Safety - Part 1: General Requirements.
International	International Electrotechnical Commission standard IEC60950-1	First Edition (2001), Information Technology Equipment - Safety - Part 1: General Requirements.

Customer Service Support

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