

A decorative background consisting of overlapping, semi-transparent blue triangles of various shades, creating a complex, crystalline geometric pattern. The pattern is denser in the upper left and fades towards the bottom right.

Product Safety Guide
020-103846-01

Crimson WU32

CHRISTIE®

Important Safety Information

Read this document carefully before installing or operating Crimson WU32. Store the document in a location close to the product for future reference.

Product documentation

For installation, setup, and user information, see the product documentation available on the Christie Digital Systems USA Inc. website. Read all instructions before using or servicing this product.

1. Access the documentation from the Christie website:
 - Go to this URL: bit.ly/3powZic.
 - Scan the QR code using a QR code reader app on a smartphone or tablet.



2. On the product page, select the model and switch to the **Downloads** tab.

Related documentation

Additional information on the projector is available in the following documents.

- *Crimson WU32 Installation and Setup Guide (P/N: 020-103847-XX)*

Model name

- Crimson WU32

Notation

Learn the hazard and information symbols used in the product documentation.



Danger messages indicate a hazardous situation which, if not avoided, results in death or serious injury.



Warning messages indicate a hazardous situation which, if not avoided, could result in death or serious injury.



Caution messages indicate a hazardous situation which, if not avoided, could result in minor or moderate injury.



Notice messages indicate a hazardous situation which, if not avoided, may result in equipment or property damage.





Information messages provide additional information, emphasize or provide a useful tip.


Product labels

Learn about the labels that may be used on the product. Labels on your product may be yellow or black and white.

General hazards

Hazard warnings also apply to accessories once they are installed in a Christie product that is connected to power.

Fire and Shock Hazard	
	To prevent fire or shock hazards, do not expose this product to rain or moisture.
	Do not alter the power plug, overload the power outlet, or use it with extension cords.
	Do not remove the product enclosure.
	Only Christie qualified technicians are authorized to service the product.

Electrical Hazard	
	Risk of electric shock.
	Do not remove the product enclosure.
	Only Christie qualified technicians are authorized to service the product.



General hazard.



Electric shock hazard. To avoid personal injury, disconnect all power sources before performing maintenance or service.



Electrocution hazard. To avoid personal injury, always disconnect all power sources before performing maintenance or service procedures.



Hot surface hazard. To avoid personal injury, allow the product to cool for the recommended cool down time before performing maintenance or service.



Burn hazard. To avoid personal injury, allow the product to cool for the recommended cool down time before performing maintenance or service.



Moving parts hazard. To avoid personal injury, keep hands clear and loose clothing tied back.



Fan hazard. To avoid personal injury, keep hands clear and loose clothing tied back. Always disconnect all power sources before performing maintenance or service procedures.



Voltage hazard. To avoid personal injury, always disconnect all power sources before performing maintenance or service procedures.



Not for household use.

Mandatory action



Consult the service manual.



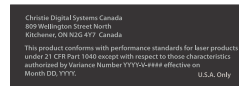
Disconnect all power sources before performing maintenance or service procedures.

Electrical labels



Indicates the presence of a protective earth ground.

Laser labels



FDA laser variance (US projectors only)

This product conforms with performance standards for laser products under 21 CFR Part 1040 except with respect to those characteristics authorized by Variance Number 2016-V-1838 effective on June 20, 2017.



Indicates a light hazard. Do not look directly into the lens. The extreme high brightness can cause permanent eye damage. Class 1 Laser Product - Risk Group 3 according to IEC 60825-1: 2014 and IEC 62471-5:2015

Additional safety hazards



Do not look directly into the lens. The extremely high brightness can cause permanent eye damage.

Important safeguards

To prevent personal injury and to protect the device from damage, read and follow these safety precautions. This projector is intended for use in a non-cinema environment.

General safety precautions

Read all safety and warning guidelines before installing or operating the projector.



Warning! If not avoided, the following could result in death or serious injury.

- TRIP OR FIRE HAZARD! Position all cables where they cannot contact hot surfaces, be pulled, be tripped over, or damaged by persons walking on or objects rolling over the cables.
- This product must be installed within a restricted access location not accessible by the general public.
- Only personnel who are trained on the precautions for the restricted access location can be granted entry to the area.
- Install the product so users and the audience cannot enter the restricted area at eye level.
- ELECTRICAL and BURN HAZARD! Use caution when accessing internal components.
- High leakage current present when connected to IT power systems.
- FIRE AND SHOCK HAZARD! Use only the attachments, accessories, tools, and replacement parts specified by Christie.
- A minimum of four people or appropriately rated lift equipment is required to safely lift, install, or move the product.
- Always install safety straps when the frame and projector are installed overhead.
- Do not operate the product without a lens installed.
- Always use a lens plug when installing or moving the product. This prevents contaminants from entering the product.

AC power precautions



Warning! If not avoided, the following could result in death or serious injury.

- SHOCK HAZARD! Only use the AC power cord provided with the product or recommended by Christie.
- FIRE AND SHOCK HAZARD! Do not attempt operation unless the power cord, power socket, and power plug meet the appropriate local rating standards.

- SHOCK HAZARD! Do not attempt operation if the AC supply is not within the specified voltage and current, as specified on the license label.
- SHOCK HAZARD! The AC power cord must be inserted into an outlet with grounding.
- SHOCK HAZARD! Disconnect the product from AC before installing, moving, servicing, cleaning, removing components, or opening any enclosure.
- Install the product near an easily accessible AC receptacle.
- The appliance coupler and main power supply plug must be easily accessible for disconnecting the product from the power source.



Caution! If not avoided, the following could result in minor or moderate injury.

- FIRE HAZARD! Do not use a power cord, harness, or cable that appears damaged.
- FIRE OR SHOCK HAZARD! Do not overload power outlets and extension cords.
- SHOCK HAZARD! Power supply uses double pole/neutral fusing.

Laser safety precautions



Warning! If not avoided, the following could result in death or serious injury.

- PERMANENT/TEMPORARY BLINDNESS HAZARD! No direct exposure to the beam must be permitted. Class 1 Laser Product - Risk Group 3 according to IEC 60825-1:2014 and IEC 62471-5:2015.
- LASER RADIATION HAZARD! This projector has a built-in Class 4 laser module. Never attempt to disassemble or modify the laser module.
- Possible hazardous optical radiation emitted from this product. (Risk group 3)
- Only Christie qualified technicians who are knowledgeable about the hazards associated with laser use, high-voltage, and high temperatures generated by the product are authorized to assemble, install, and service the Christie Laser Projection System.
- Do not look directly into the lens when the light source is on. The extremely high brightness can cause permanent eye damage.
- Do not operate the product without all of its covers in place.

Light intensity hazard distance

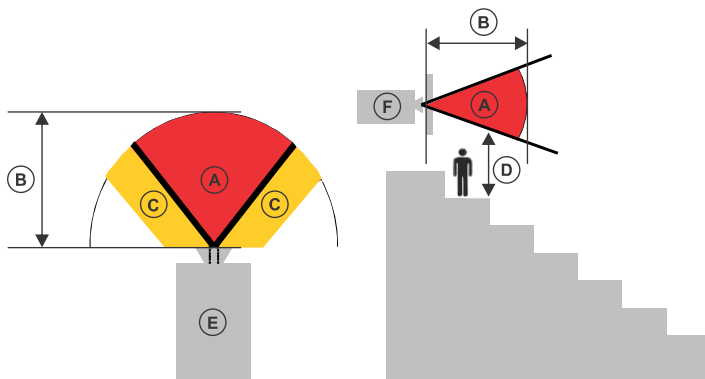
This projector has been classified as Risk Group 3 as per the IEC 62471-5:2015 standard due to possible hazardous optical and thermal radiation being emitted.



Warning! If not avoided, the following could result in serious injury.

- PERMANENT/TEMPORARY BLINDNESS HAZARD! No direct exposure to the beam must be permitted. Class 1 Laser Product - Risk Group 3 according to IEC 60825-1:2014 and IEC 62471-5:2015.
- PERMANENT/TEMPORARY BLINDNESS HAZARD! Operators must control access to the beam within the hazard distance or install the product at the height that prevents exposure of spectators' eyes within the hazard distance. The hazard zone must be no lower than 3.0 meters above the floor and the horizontal clearance to the hazard zone must be a minimum 2.5 meters.
- EXTREME BRIGHTNESS! Do not place reflective objects in the product light path.

The following diagram shows the zones for ocular and skin hazard distances:



- A—Hazard zone. The region of space where the projection light from the laser-illuminated projector is above emission limits for Risk Group 2. The light intensity may cause eye damage after a momentary or brief exposure (before a person can avert his or her eyes away from the light source). The light may cause skin burns to occur.
- B—Hazard distance. Operators must control access to the beam within the hazard distance or install the product preventing potential exposure of the spectators' eyes from being in the hazard distance.
- C—No access zone. Horizontal clearance of the no access zone must be a minimum of 2.5 meters.
- D—Vertical distance to hazard zone. The hazard zone must be no lower than 3.0 meters above the floor.
- E—Represents the top view of the projector.
- F—Represents the side view of the projector.

For information detailing the hazard distance for each lens, refer to the *Crimson WU32 Installation and Setup Guide (P/N:*

020-103847-XX).

For Installations in the United States

The following must be in place for laser-illuminated projector installations in the United States:

- Any human access to the hazard zone, if applicable, must be restricted by barriers to enforce the no access zone.
- Permanent show installations containing Risk Group 3 laser-illuminated projectors must meet the following conditions:
 - Installed by Christie or by Christie-authorized and trained installers. Refer to the Laser Illuminated Projector - Class 1 Risk Group 3 Installation training (Course code: CS-ELSA-01) on the <http://www.christieuniversity.com> site.
 - Performed according to instructions provided by Christie.
 - Ensure the projection system is securely mounted or immobilized to prevent unintended movement or misalignment of the projections.
- A copy of the FDA variance approval letter must be with the operator or other responsible individual. FDA variances can be found in the online training course—Laser Illuminated Projection - Class 1 Risk Group 3 Installation.
- Temporary show installations containing Risk Group 3 laser-illuminated projectors may be installed by Christie or sold or leased only to valid laser light show variance holders (laser light show manufacturers) for image projection applications. Such manufacturers may currently hold a valid variance for production of Class IIIb and IV laser light shows and/or for incorporation of the Risk Group 3 laser-illuminated projectors into their shows. This requirement applies also to dealers and distributors of these laser-illuminated projectors.
- For temporary installations, the FDA variance holder must maintain complete records of all show itineraries with dates, locations, operator name, and contact information clearly and completely identified.
- The Christie Laser Projection System Installation Checklist must be fully completed after the installation and sent to lasercompliance@christiedigital.com. A copy can remain on-site. This checklist can be found as a separate document in the accessory box with the manual.
- Certain US states have additional laser regulatory requirements. Go to www.christiedigital.com for additional regulatory requirements.

Power requirements

Learn the power requirements for Crimson WU32.

Parameter	Requirement
Rated voltage	

Parameter	Requirement
Input 1	200 - 240 VAC
Input 2	100 - 240 VAC
Rated current	
Input 1	16 A maximum
Input 2	10 A maximum
Line frequency	50/60 Hz
AC input coupler	
Input 1	IEC 320 - C20
Input 2	IEC 320 - C14

Technical support

Technical support for Christie Enterprise products is available at:

- North and South America: +1-800-221-8025 or Support.Americas@christiedigital.com
- Europe, Middle East, and Africa: +44 (0) 1189 778111 or Support.EMEA@christiedigital.com
- Asia Pacific (support.apac@christiedigital.com):
 - Australia: +61 (0)7 3624 4888 or tech-Australia@christiedigital.com
 - China: +86 10 6561 0240 or tech-supportChina@christiedigital.com
 - India: +91 (80) 6708 9999 or tech-India@christiedigital.com
 - Japan: 81-3-3599-7481
 - Singapore: +65 6877-8737 or tech-Singapore@christiedigital.com
 - South Korea: +82 2 702 1601 or tech-Korea@christiedigital.com
- Christie Professional Services: +1-800-550-3061 or NOC@christiedigital.com

重要安全信息

在安装或操作 **Crimson WU32** 之前，请仔细阅读此文档。请将此文档存放在产品附近的位置以便用作将来参考。

产品文档

有关安装、设置和用户信息，请参见 **Christie Digital Systems USA Inc.** 网站中提供的产品文档。请在使用或维修本产品前阅读全部说明。

1. 从 **Christie** 网站访问文档：

- 转至 URL: bit.ly/3powZic。
- 使用智能手机或平板电脑上的二维码读取应用程序扫描二维码。



2. 在产品页面上，选择型号并切换至 **Downloads (下载)** 选项卡。

相关文档

有关投影机的详细信息，请参阅以下文档。

- *Crimson WU32 安装和设置指南* (P/N: 020-103847-XX)

型号名称

- **Crimson WU32**

符号

了解产品文档中所使用的危险和信息符号。



危险消息指出如不可避免一旦发生将会导致死亡或造成重伤的危险情况。



警告消息指出如不可避免一旦发生可能会导致死亡或造成重伤的危险情况。



警示消息指出如不可避免一旦发生将会导致轻伤或造成中度伤害的危险情况。



通知消息指出如不可避免一旦发生将会导致设备损坏或财产损失的危险情况。



信息消息提供附加信息，以强调或提供有用的提示。

产品标签

了解产品中所使用的标签。您的产品标签可能为黄色或黑色与白色。

常规危险

危险警告也同样适用于安装在已接通电源的 **Christie** 产品中的配件。

火灾与电击危险



为防止火灾或电击危险，请勿使本产品接触雨水或湿气。

请勿改动电源插头、使电源插座过载或将其与延长线一起使用。



请勿拆下产品外壳。

仅合格的 **Christie** 技师有权对本产品进行维修。

电气危险



本品有电击风险。

请勿拆下产品外壳。

仅合格的 **Christie** 技师有权对本产品进行维修。



常规危险。



电击危险。为避免受到人身伤害，在进行维护或维修前，请断开所有电源连接。



触电危险。为避免受到人身伤害，在进行维护或维修前，请始终断开所有电源连接。



高温表面危险。为避免受到人身伤害，在进行维护或维修前，请按建议的冷却时间对投影机进行冷却。



灼伤危险。为避免受到人身伤害，在进行维护或维修前，请按建议的冷却时间对投影机进行冷却。



运动部件危险。为避免受到人身伤害，请勿用手触摸，并将衣物解开扎在身后。



风扇危险。为避免受到人身伤害，请勿用手触摸，并将宽松衣物扎在身后。在进行维护或维修前，请始终断开所有电源连接。



电压危险。为避免受到人身伤害，在进行维护或维修前，请始终断开所有电源连接。



不适合家庭使用。

必要操作



请参考维修手册。



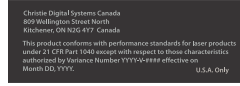
在执行维护或维修操作前，请断开所有电源连接。

电气标签



表示存在防护性接地连接。

激光标签



FDA 激光差异（仅美国投影机）

本产品符合 21 CFR Part 1040 中激光产品的性能标准，但不符合差异编号为 2016-V-1838 授权的那些特性，其生效日期为 2017 年 6 月 20 日。

表示强光危险。切勿直视镜头。极高的亮度可能会导致永久性的眼睛损伤。1 类激光产品 - 根据 IEC 60825-1:2014 和 IEC 62471-5:2015, 危险等级为 3 级



其他安全危险



切勿直视镜头。极高的亮度可能会导致永久性的眼睛损伤。

重要的安全防护措施

为防止人身伤害和设备受损，请阅读并遵循以下安全安全警示信息。此投影机专用于非影院环境。

一般安全警示信息

请在安装和操作投影机之前阅读所有安全和警告指南。



警告！ 如果未能避免下列情况，则可能会导致死亡或严重伤害。

- 绊倒或火灾危险！请将所有电缆置于不接触热表面、不被拖拉、羁绊、不被人踩踏或物体滚压的位置。
- 此产品必须安装在公众无法接近的受限区域。
- 仅接受过受限区警示信息相关培训的人员有权进入该区域。
- 安装此产品以避免用户和观众进入与视线齐平的限制区。
- 触电和灼伤危险！靠近内部组件时，请小心谨慎。
- 连接至 IT 电力系统时会产生高泄漏电流。
- 火灾与电击危险！仅限使用 Christie 规定的附件、配件、工具和替换部件。
- 想要安全提升、安装或移动产品，至少需要四个人或额定值适当的起重设备。

- 架空安装框架和投影仪时，请始终安装安全带。
- 在没有安装镜头的情况下，请不要操作产品。
- 安装或移动产品时，请使用镜头塞。这能防止污染物进入产品。

交流电源警示信息



警告！ 如果未能避免下列情况，则可能会导致死亡或严重伤害。

- 电击危险！仅限使用随产品提供的或由 Christie 推荐的交流电源线。
- 火灾与电击危险！除非电源线、电源插座和电源插头都满足相应的当地额定值标准，否则请勿尝试运行本系统。
- 电击危险！如果交流电源不在许可标签上指定的额定电压和电流范围内，请勿尝试操作。
- 电击危险！交流电源线必须插入到接地保护的电源插座中。
- 电击危险！在安装、移动、维修、清洁、取下组件或打开任何外壳之前，请断开产品上的交流电源。
- 将产品安装在便于接触的交流电源插座附近。
- 电器耦合器和主电源插头必须易于触及，以便断开产品的电源。



当心！ 如果未能避免下列情况，则可能会导致轻度伤害或中度伤害。

- 火灾危险！请勿使用出现损坏的电源线。
- 火灾或电击危险！请勿使电源插座和延长电缆过载。
- 电击危险！电源使用双极性/中性保险丝。

激光安全预防措施



警告！ 如果未能避免下列情况，则可能会导致死亡或严重伤害。

- 永久性/暂时性致盲危险！不允许直接暴露在光束中。1 类激光产品 - 根据 IEC 60825-1:2014 和 IEC 62471-5:2015，危险等级为 3 级。
- 激光辐射危险！本投影机具有内置的 4 类激光模块。不要试图拆卸或修改激光模块。
- 本产品可能会散发出危险的光辐射。（危险等级 3）
- 仅 Christie 合格技师有权对 Christie 激光投影系统进行组装、安装和维修，因为他们了解使用激光以及本产品产生的高电压和高温可能带来的危险。
- 在光源开启的情况下，请勿直视镜头。极高的亮度可能会导致永久性的眼睛损伤。
- 操作本产品之前必须保证所有机盖均已就位。

亮度危险距离

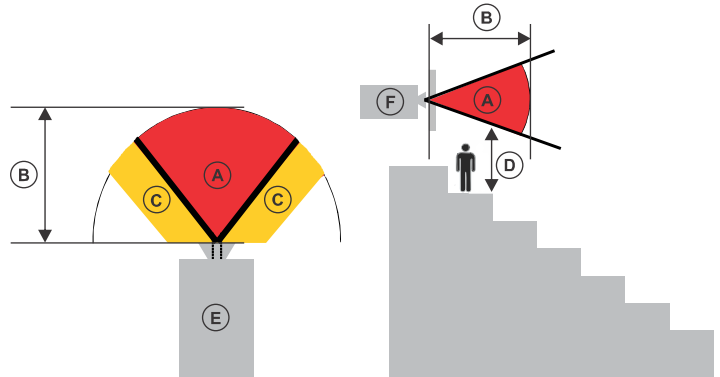
此投影机可能会发出危险的光辐射和热辐射，根据 IEC 62471-5:2015 标准分类为“危害等级 3”。



警告！ 如果未能避免下列情况，则可能会导致严重伤害。

- 永久性/暂时性致盲危险！不允许直接暴露在光束中。1 类激光产品 - 根据 IEC 60825-1:2014 和 IEC 62471-5:2015，危险等级为 3 级。
- 永久性/暂时性致盲危险！操作员必须将对光束的接触控制在危险距离内并将产品安装在可防止观察者眼睛在危险距离内接触光束的高度。危险区域在地板以上的距离不得低于 3.0 米，到危险区域的水平间隙不得小于 2.5 米。
- 强光！请勿将反射体放置在产品光路下。

下图显示了眼睛和皮肤危险距离的区域：



- A - 危险区域。激光照明投影机的投影光超过危险等级 2 的辐射极限的空间区域。在短暂或短促的接触后，亮度可能会造成眼睛损伤（在人眼躲避光源之前）。光可能会造成皮肤灼伤。
- B - 危险距离。操作员必须将对光束的接触控制在危险距离内，或将产品安装在可防止观察者眼睛在危险距离内接触光束的位置。
- C - 无接触区域。无接触区域的水平间隙必须至少为 2.5 米。
- D - 到危险区域的垂直距离。危险区域在地板以上的距离不得低于 3.0 米。
- E - 表示投影机的俯视图。
- F - 表示投影机的侧视图。

关于每个镜头危险距离的详细信息，请参阅《Crimson WU32 安装和设置指南》(P/N: 020-103847-XX)。

对于在美国的安装

激光照明投影机在美国的安装必须满足以下条件：

- 通往危险区域的任何人员通道（如适用）必须受到阻隔物的限制以强化无接触区域。
- 包含危险等级 3 的激光照明投影机的永久显示装置必须满足以下条件：
 - 由经过 Christie 或 Christie 授权和培训的安装人员进行安装。请参阅激光照明投影机 - 1 类危险等级 3 安装培训（课程代码：CS-ELSA-01），网址为 <http://www.christieuniversity.com>。
 - 根据 Christie 提供的说明进行。
 - 确保投影系统安全安装和固定，防止投影的意外移动或偏差。
- 操作员和其他相关负责人必须持有 FDA 差异批准函的副本。可以在 - 激光照明投影 - 1 类危险等级 3 安装的在线培训课程中找到 FDA 差异。

- 包含危险等级 3 的激光照明投影机的临时显示装置可能由 Christie 安装，或仅出售或租赁给有效的激光显示差异持有者（激光显示制造商），用于影像投影应用程序。这样的制造商当前可能持有 IIIb 和 IV 类激光显示产品和/或在他们的显示中包含危险等级 3 的激光照明投影机的有效差异。这项要求也适用于这些激光照明投影机的经销商和分销商。
- 对于临时安装，FDA 差异持有者必须维护所有显示线路的完整记录，在其中需清晰、完整地标明日期、位置、操作员姓名和联系信息。
- Christie 激光投影系统安装清单必须在安装后全部完成并发送至 lasercompliance@christiedigital.com。可在现场保留一份副本。此清单作为单独文档与手册一同置于配件箱中。
- 美国的某些州具有其他激光法规要求。请转至 www.christiedigital.com 以获得其他法规要求。

电源要求

了解 Crimson WU32 的电源要求。

参数	要求
额定电压	
输入端 1	200 - 240 VAC
输入端 2	100 - 240 VAC
额定电流	
输入端 1	最大 16 A
输入端 2	最大 10 A
线路频率	50/60 Hz
交流输入耦合器	
输入端 1	IEC 320 - C20
输入端 2	IEC 320 - C14

技术支持

Christie Enterprise 产品的技术支持可以通过以下方式获取：

- 北美洲和南美洲：+1-800-221-8025 或 Support.Americas@christiedigital.com
- 欧洲、中东和非洲：+44 (0) 1189 778111 或 Support.EMEA@christiedigital.com
- 亚太地区 (support.apac@christiedigital.com):
 - 澳大利亚：+61 (0)7 3624 4888 或 tech-Australia@christiedigital.com
 - 中国：+86 10 6561 0240 或 tech-supportChina@christiedigital.com
 - 印度：+91 (80) 6708 9999 或 tech-India@christiedigital.com
 - 日本：81-3-3599-7481
 - 新加坡：+65 6877-8737 或 tech-Singapore@christiedigital.com
 - 韩国：+82 2 702 1601 或 tech-Korea@christiedigital.com
- Christie 专业服务：+1-800-550-3061 或 NOC@christiedigital.com

