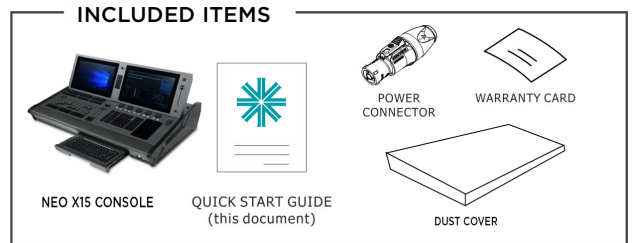


# NEO X15

## OVERVIEW

This document provides basic setup instructions and safety warnings for the following product(s):

Neo X15      **54101-004**      Lighting Console



## INSTALLATION AND SETUP

### CONNECTING POWER

This console requires standard AC power distribution from 100-240VAC. Current required depends on the AC supply voltage and product model.

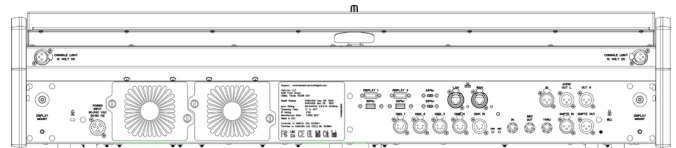
**NOTE:** The mating compatible connector is supplied; however, you will need to purchase or construct a cable appropriate for your application.

Depending on the application, the Console's AC input cable may require a different connector. If required, install a new connector meeting your requirements using the following wire color code reference:

AC VOLTAGE AT 60HZ	NEO X15 CURRENT
120V	5.9A
208V	3.1A
230V	2.8A
240V	2.7A

WIRE*	CONNECTION
Green/yellow	AC ground
Blue	AC neutral
Brown	AC line

\* International (Harmonized) Standard



**WARNING: DO NOT** connect to three-phase service in countries with 240V power.

Single-phase power from 100-240V RMS:



CONNECTION	PIN
AC neutral	X
AC line	Y
Ground (earth)	G

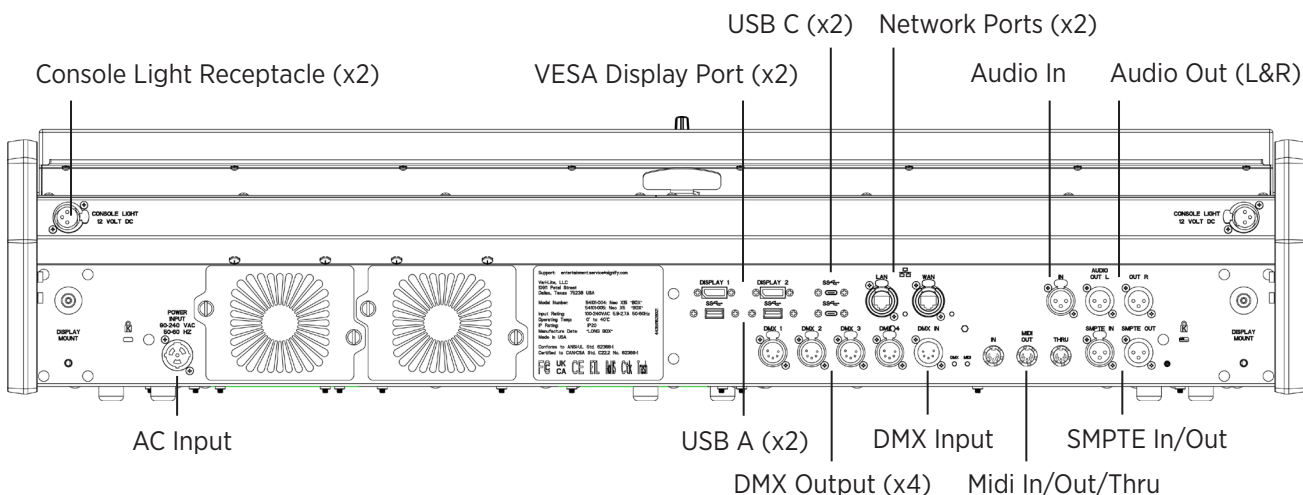
Two-phase power at 208V RMS:

CONNECTION	PIN
Phase 1	X
Phase 2	Y
Ground (earth)	G

# NEO X15

## CONNECTIONS

**Figure 1** shows the features and controls of the NEO X15 Lighting Control Console. Refer to the on-line manual for additional information and operation.



### Rear of Unit

**Figure 1: Neo X15 Lighting Control Connections**

Use only the supplied AC input cables with unit. If the supplied AC input cable is ever damaged, you must replace it with an approved replacement. For assistance, please contact an Authorized Vari-Lite Lighting Dealer or Service Center. Authorized Dealers and Service Centers are found on the Vari-Lite web site at [www.vari-lite.com](http://www.vari-lite.com).

# NEO X15

## GETTING STARTED

### 1. UNPACK CONSOLE

Unpack your Neo X15 Lighting Control Console from its shipping box and insure you have all included items. A list of included items is found in “Included Items” on page 1 of this guide. If you are missing any components, please contact your local Authorized Vari-Lite Dealer. Authorized Dealers are found on the VariLite web site at [www.vari-lite.com](http://www.vari-lite.com).

### 2. SITE REQUIREMENT

The Neo X15 Lighting Control Console requires a sturdy, flat surface for installation. The surface should be able to support the weight of the console and should provide suitable ventilation. Also, the site should be clean (i.e. absent of any construction dust or debris) and dry. Before setting up, ensure that the installation site meets these requirements. For operational and space requirements, refer to “Neo X15 Lighting Control Console Connections” on page 2 and “Console Dimensions” on page 4 for more information.

The console must be installed and operate in an environment that is not exposed to moisture, high humidity or direct sunlight.

### 3. CONNECTING POWER

If applicable, connect monitor(s) before connecting power.

#### To connect the power supply:

Step 1. Make sure unit’s power switch is set to “Off”

Step 2. Connect AC input cable to AC Input connection on console (refer to Figure 1 on page 2).

Step 3. Connect AC input cable to AC supply source.

Step 4. Turn on console at Console On / Off Switch.

**Note:** You must connect the console to the lighting system before it is capable of providing control. Refer to “Connections” on page 2 for connection information.

### 4. READY TO USE

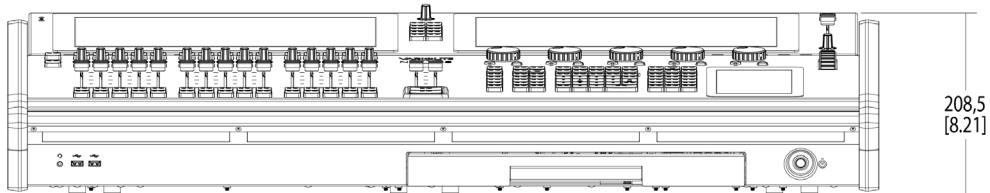
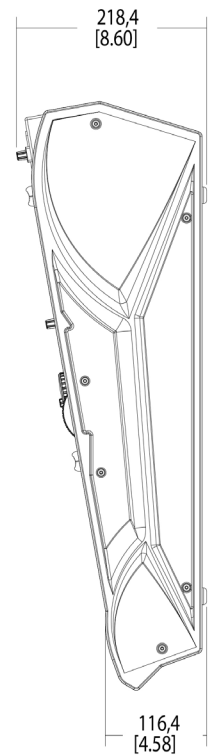
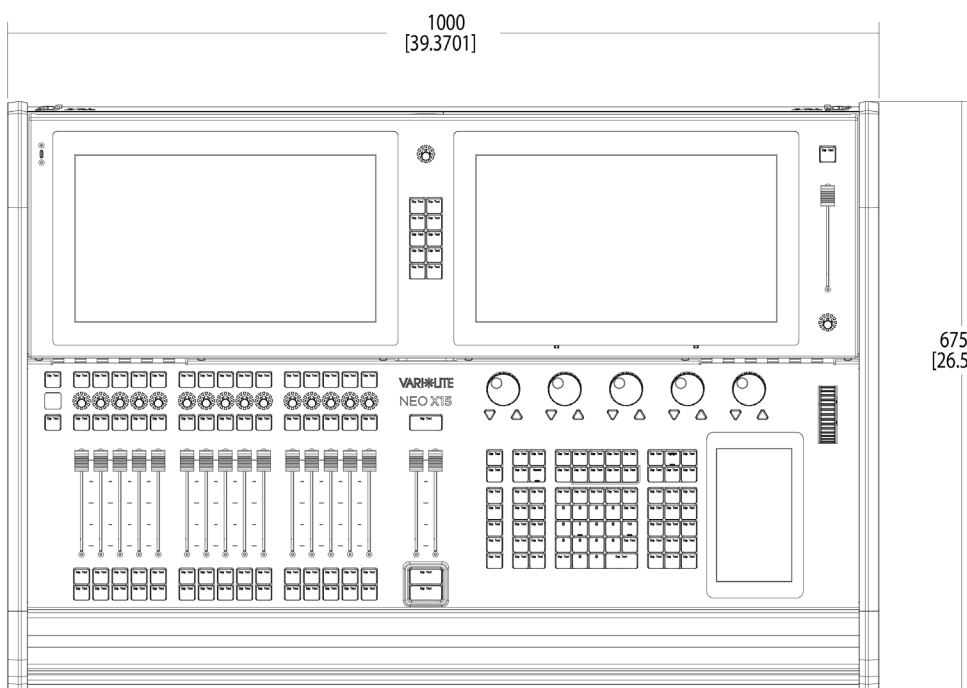
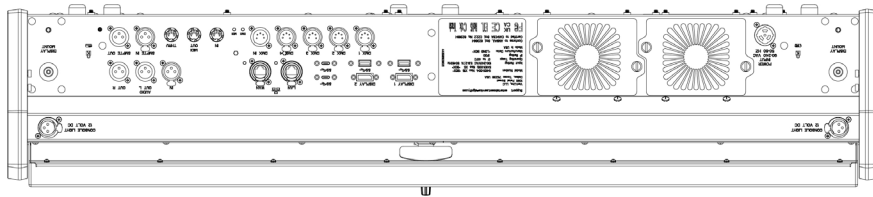
Once console is connected to power and lighting control system, it is ready for use.

- Power on the console.
- Once the software boots, you are ready to program.
- Channels can be adjusted by selecting the channels and applying a value. [1 THRU 10 FULL].
- A Cue can be recorded for timed playback. [RECORD CUE 1 ENTER] or a Submaster can be recorded for fader playback. [RECORD SUB 1 ENTER].

For more information, refer to the on-line manual for console operation, operational features, and programming.

# NEO X15

## CONSOLE LAYOUT



**Figure 2: Neo X15 Dimensioned drawings**

# NEO X15

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**WARNING:** It is the responsibility of the user to adequately protect supply source with a correct size and type circuit breaker and not overload circuits.

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**WARNING:** This unit has a battery. Replace only with the correct type of battery. Failure to use the correct battery could cause serious damage to the fixture. Dispose of used batteries appropriately.

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# NEO X15

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**WINDOWS IOT ENTERPRISE & MOBILE (ALL EDITIONS)**

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- b. **Additional terms.** Depending on your device's capabilities, how it is configured, and how you use it, additional Microsoft and third-party terms may apply to your use of certain features, services and apps.
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  - (ii) The manufacturer or installer may also preinstall apps, which will be subject to separate license terms.
  - (iii) The software may include third-party programs that are licensed to you under this agreement, or under their own terms. License terms, notices and acknowledgements, if any, for the third-party program can be viewed at <https://aka.ms/thirdpartynotices>.

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- b. **Device.** In this agreement, "device" means a physical hardware system with an internal storage device capable of running the software. A hardware partition or blade is considered to be a device.
- c. **Restrictions.** The manufacturer or installer and Microsoft reserve all rights (such as rights under intellectual property laws) not expressly granted in this agreement, and no other rights are licensed to you. For the avoidance of doubt, this license does not give you any right to, and you may not (and you may not permit any other person or entity to):

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- (iii) transfer the software;
- (iv) work around any technical restrictions or limitations in the software;
- (v) use the software as server software or to operate the device as a server, except as permitted under Section 2(d)(iii) below; use the software to offer commercial hosting services; make the software available for simultaneous use by more than one user over a network, except as permitted under Section 2(d)(v) below; install the software on a server for remote access or use over a network; or install the software on a device for use only by remote users; a single device may be locally and simultaneously interacted with by up-to two end user operators;
- (vi) reverse engineer, decompile, or disassemble the software, or attempt to do so, except and only to the extent that the foregoing restriction is (a) permitted by applicable law; (b) permitted by licensing terms governing the use of open-source components that may be included with the software; or (c) required to debug changes to any libraries licensed under the GNU Lesser General Public License that are included with and linked to by the software; and
- (vii) when using Internet-based features you may not use those features in any way that could interfere with anyone else's use of them, or to try to gain access to or use any service, data, account, or network, in an unauthorized manner.

**d. Multi-Use scenarios.**

- (i) **Multiple versions.** If when acquiring the software, you were provided with multiple versions (such as 32-bit and 64-bit versions), you may install and activate only one of those versions at a time.
- (ii) **Multiple or pooled connections.** Hardware or software you use to multiplex or pool connections, or reduce the number of devices or users that access or use the software, does not reduce the number of licenses you need. You may only use such hardware or software if you have a license for each instance of the software you are using.
- (iii) **Device connections.** You may allow up to 20 other devices to access the software installed on the licensed device solely to use the following software features for personal or internal purposes: file services, print services, Internet information services, and Internet connection sharing and telephony services on the licensed device. The 20 connection limit applies to devices that access the software indirectly through "multiplexing" or other software or hardware that pools connections. You may allow any number of devices to access the software on the licensed device to synchronize data between devices. This subsection does not mean, however, that you have the right to install the software, or use the primary function of the software (other than the features listed in this subsection), on any of these other devices.
- (iv) **Remote access.** Users may access the licensed device from another device using remote access technologies, but only on devices separately licensed to run the same or higher edition of this software.
- (v) **Remote assistance.** You may use remote assistance technologies to share an active session without obtaining any additional licenses for the software. Remote assistance allows one user to connect directly to another user's computer, usually to correct problems.
- (vi) **POS application.** If the software is installed on a retail point of service device, you may use the software with a point of service application ("POS Application"). A POS Application is a software application which provides only the following functions: (i) process sales and service transactions, scan and track inventory, record and/or transmit customer information, and perform related management functions, and/or (ii) provide information directly and indirectly to customers about available products and services. You may use other programs with the software as long as the other programs: (i) directly support the manufacturer's specific use for the device, or (ii) provide system utilities, resource management, or anti-virus or similar protection. For clarification purposes, an automated teller machine ("ATM") is not a retail point of service device.
- (vii) **Cloud Computing Devices.** If your device uses Internet browsing functionality to connect to and access cloud hosted applications: (i) no desktop functions may run locally on the device, and (ii) any files that result from the use of the desktop functions may not be permanently stored on the system. "Desktop functions," as used in this agreement, means a consumer or business task or process performed by a computer or computing device. This includes but is not limited to email, word processing, spreadsheets, database, scheduling, network or internet browsing and personal finance.

# NEO X15

(viii) **Desktop Functions.** If your system performs desktop functions, then you must ensure that they: (i) are only used to support the application, and (ii) operate only when used with the application.

**e. Windows IoT Enterprise Features for Development and Testing Only.**

**(1) Device Health Attestation.** You may only implement Device Health Attestation in a commercial use if you execute a Microsoft Windows IoT Core Services Agreement at: <https://azure.microsoft.com/en-us/services/windows-10-iot-core/>.

**f. Specific Use.** The manufacturer designed the licensed device for a specific use. You may only use the software for that use.

**3. Privacy; Consent to Use of Data.** Your privacy is important to us. Some of the software features send or receive information when using those features. Many of these features can be switched off in the user interface, or you can choose not to use them. By accepting this agreement and using the software you agree that Microsoft may collect, use, and disclose the information as described in the Microsoft Privacy Statement available at <https://aka.ms/privacy>, and as may be described in the user interface associated with the software features.

**4. Authorized Software and Activation.** You are authorized to use this software only if you are properly licensed and the software has been properly activated with a genuine product key or by other authorized method. When you connect to the Internet while using the software, the software will automatically contact Microsoft or its affiliate to confirm the software is genuine and the license is associated with the licensed device. You can also activate the software manually by Internet or telephone. In either case, transmission of certain information will occur, and Internet, telephone and SMS service charges may apply. During activation (or reactivation that may be triggered by changes to your device's components), the software may determine that the installed instance of the software is counterfeit, improperly licensed or includes unauthorized changes. If activation fails the software will attempt to repair itself by replacing any tampered Microsoft software with genuine Microsoft software. You may also receive reminders to obtain a proper license for the software. Successful activation does not confirm that the software is genuine or properly licensed. You may not bypass or circumvent activation. To help determine if your software is genuine and whether you are properly licensed, see <https://aka.ms/genuine>. Certain updates, support, and other services might be offered only to users of genuine Microsoft software.

**5. Updates.** You may obtain updates only from Microsoft or authorized sources, and Microsoft may need to update your system to provide you with those updates. The software periodically checks for system and app updates, and may download and install them for you. To the extent automatic updates are enabled on your device, by accepting this agreement, or using the software, you agree to receive these types of automatic updates without any additional notice.

**6. Geographic and Export Restrictions.** If your software is restricted for use in a particular geographic region, then you may activate the software only in that region. You must also comply with all domestic and international export laws and regulations that apply to the software, which include restrictions on destinations, end users, and end use. For further information on geographic and export restrictions, visit <https://aka.ms/exporting>.

**7. Support and Refund Procedures.** For the software generally, contact the device manufacturer or installer for support options. Refer to the support number provided with the software. For updates and supplements obtained directly from Microsoft, Microsoft may provide limited support services for properly licensed software as described at <https://aka.ms/mssupport>. If you are seeking a refund, contact the manufacturer or installer to determine its refund policies. You must comply with those policies, which might require you to return the software with the entire device on which the software is installed for a refund.

**8. Binding Arbitration and Class Action Waiver if You Live in (or, if a Business, Your Principal Place of Business is in) the United States.**

We hope we never have a dispute, but if we do, you and we agree to try for 60 days to resolve it informally. If we can't, you and we agree to **binding individual arbitration before the American Arbitration Association ("AAA") under the Federal Arbitration Act ("FAA"), and not to sue in court in front of a judge or jury.** Instead, a neutral arbitrator will decide and the arbitrator's decision will be final except for a limited right of appeal under the FAA. **Class action lawsuits, class-wide arbitrations, private attorney-general actions, and any other proceeding where someone acts in a representative capacity aren't allowed. Nor is combining individual proceedings without the consent of all parties.** "We," "our," and "us" includes Microsoft, the device manufacturer, and software installer.

**a. Disputes covered—everything except IP.** The term "dispute" is as broad as it can be. It includes any claim or controversy between you and the manufacturer or installer, or you and Microsoft, concerning the software, its price, or this agreement, under any legal theory including contract, warranty, tort, statute, or regulation, **except disputes relating to the enforcement or validity of your, your licensors', our, or our licensors' intellectual property rights.**

**b. Mail a Notice of Dispute first.** If you have a dispute and our customer service representatives can't resolve it, send a Notice of Dispute by U.S. Mail to the manufacturer or installer, ATTN: LEGAL DEPARTMENT. If your dispute is with Microsoft, mail it to Microsoft Corporation, ATTN: CELA ARBITRATION, One Microsoft Way, Redmond, WA 98052-6399. Tell us your name, address, how to contact you, what the problem is, and what you want. A form is available at <https://go.microsoft.com/fwlink/?LinkId=245499>. We'll do the same if we have a dispute with you. After 60 days, you or we may start an arbitration if the dispute is unresolved.

**c. Small claims court option.** Instead of mailing a Notice of Dispute, and if you meet the court's requirements, you may sue us in small claims court in your county of residence (or if a business your principal place of business) or our principal place of business—King County, Washington USA if your dispute is with Microsoft. We hope you'll mail a Notice of Dispute and give us 60 days to try to work it out, but you don't have to before going to small claims court.

**d. Arbitration procedure.** The AAA will conduct any arbitration under its Commercial Arbitration Rules (or if you are an individual and use the software for personal or household use, or if the value of the dispute is \$75,000 USD or less whether or not you are an individual or how you use the software, its Consumer Arbitration Rules). For more information, see <https://aka.ms/adr> or call 1-800-778-7879. To start an arbitration, submit the form available at <https://aka.ms/arbitration> to the AAA; mail a copy to the manufacturer or installer (or to Microsoft if your dispute is with Microsoft). In a dispute involving \$25,000 USD or less, any hearing will be telephonic unless the arbitrator finds good cause to hold an in-person hearing instead. Any in-person hearing will take place in your county of residence (or if a business, your principal place of business) or our principal place of business—King County, Washington if your dispute is with Microsoft. You choose. The arbitrator may award the same damages to you individually as a court could. The arbitrator may award declaratory or injunctive relief only to you individually to satisfy your individual claim.

**e. Arbitration fees and payments.**

**(i) Disputes involving \$75,000 USD or less.** The manufacturer or installer (or Microsoft if your dispute is with Microsoft) will promptly reimburse your filing fees and pay the AAA's and arbitrator's fees and expenses. If you reject our last written settlement offer made before the arbitrator was appointed, your dispute goes all the way to an arbitrator's decision (called an "award"), and the arbitrator awards you more than this last written offer, the manufacturer or installer (or Microsoft if your dispute is with Microsoft) will: (1) pay the greater of the award or \$1,000 USD; (2) pay your reasonable attorney's fees, if any; and (3) reimburse any expenses (including expert witness fees and costs) that your attorney reasonably accrues for investigating, preparing, and pursuing your claim in arbitration. The arbitrator will determine the amounts unless you and we agree on them.

**(ii) Disputes involving more than \$75,000 USD.** The AAA rules will govern payment of filing fees and the AAA's and arbitrator's fees and expenses.

**(iii) Disputes involving any amount.** If you start an arbitration, we won't seek our AAA or arbitrator's fees and expenses, or your filing fees we reimbursed, unless the arbitrator finds the arbitration frivolous or brought for an improper purpose. If we start an arbitration we will pay all filing, AAA, and arbitrator's fees and expenses. We won't seek our attorney's fees or expenses from you in any arbitration. Fees and expenses are not counted in determining how much a dispute involves.

**f. Must file within one year.** You and we must file in small claims court or arbitration any claim or dispute (except intellectual property disputes — see Section 8.a.) within one year from when it first could be filed. Otherwise, it's permanently barred.

**g. Severability.** If the class action waiver is found to be illegal or unenforceable as to all or some parts of a dispute, those parts won't be arbitrated but will proceed in court, with the rest proceeding in arbitration. If any other provision of Section 8 is found to be illegal or unenforceable, that provision will be severed but the rest of Section 8 still applies.

**h. Conflict with AAA rules.** This agreement governs if it conflicts with the AAA's Commercial Arbitration Rules or Consumer Arbitration Rules.

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**9. Governing Law.** The laws of the state or country where you live (or, if a business, where your principal place of business is located) govern all claims and disputes concerning the software, its price, or this agreement, including breach of contract claims and claims under state consumer protection laws, unfair competition laws, implied warranty laws, for unjust enrichment, and in tort, regardless of conflict of law principles. In the United States, the FAA governs all provisions relating to arbitration.

**10. Consumer Rights, Regional Variations.** This agreement describes certain legal rights. You may have other rights, including consumer rights, under the laws of your state or country. You may also have rights with respect to the party from which you acquired the software. This agreement does not change those other rights if the laws of your state or country do not permit it to do so. For example, if you acquired the software in one of the below regions, or mandatory country law applies, then the following provisions apply to you:

**a. Australia.** References to "Limited Warranty" are references to the express warranty provided by Microsoft or the manufacturer or installer. This warranty is given in addition to other rights and remedies you may have under law, including your rights and remedies in accordance with the statutory guarantees under the Australian Consumer Law.

In this subsection, "goods" refers to the software for which Microsoft or the manufac-

# NEO X15

turer or installer provides the express warranty. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

- b. **Canada.** You may stop receiving updates on your device by turning off Internet access. If and when you re-connect to the Internet, the software will resume checking for and installing updates.
- c. **Germany and Austria.**
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- d. **Other regions.** See <https://go.microsoft.com/fwlink/?LinkId=534978> for a current list of regional variations

**11. Additional Notices.**

- a. **Networks, data and Internet usage.** Some features of the software and services accessed through the software may require your device to access the Internet. Your access and usage (including charges) may be subject to the terms of your cellular or internet provider agreement. Certain features of the software may help you access the Internet more efficiently, but the software's usage calculations may be different from your service provider's measurements. You are always responsible for (i) understanding and complying with the terms of your own plans and agreements, and (ii) any issues arising from using or accessing networks, including public/open networks. You may use the software to connect to networks, and to share access information about those networks, only if you have permission to do so.
- b. **H.264/AVC and MPEG-4 visual standards and VC-1 video standards.** The software may include H.264/MPEG-4 AVC and/or VC-1 decoding technology. MPEG LA, L.L.C. requires this notice:  
  
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- Windows Privacy Statement <https://aka.ms/privacy>
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Check with your device manufacturer to determine if your device is covered by a warranty.

# NEO X15

## SAFETY WARNINGS AND NOTICES

Read this user manual in full before attempting to install, operate or maintain the Console to which it relates. This user manual is intended to provide general guidance to such suitably qualified personnel. Installation and operation of the Console are to be performed by qualified personnel only.

When using electrical equipment, basic safety precautions should always be followed including the following:

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- Not for residential use. Do not use this equipment for other than intended use.
- This equipment is not suitable for use in locations where children are likely to be present.
- Note distance requirement(s) from combustible materials or illuminated objects. Do not mount near gas or electric heaters.
- Install only in locations with adequate ventilation. Ensure sure that ventilation slots are not blocked.
- Ensure that the voltage and frequency of the power supply match the power requirements of the Console.
- The Console must be earthed/grounded to the appropriate conductor.
- Do not operate Console outside the specified ambient temperature range.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
- Refer service to qualified personnel. This Console contains no user serviceable parts.
- Prior to first use, carefully inspect Console to ensure no damage has occurred during shipping.
- Materials used in the manufacturing process can cause strong odors when the product is new. These odors dissipate over time.
- Prior to each use, carefully inspect power cables and replace any damaged cables.
- Continuous use of the Console may shorten the lifespan. Power down the Console when not in use.
- Do not cycle power on and off repeatedly. Disconnect mains power if the Console is not used for an extended period.
- Clean Consoles regularly, particularly when working in a dusty environment.
- Never touch power cables or wires while the Console is powered on.
- Avoid entangling power wires with other cables.
- In the event of a serious operating problem, immediately discontinue using the Console.
- This is a Class A product. In a domestic environment this product may cause radio interference, in which case, the user may be required to take adequate measures.

### SAVE THESE INSTRUCTIONS.

**WARNING:** Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

## COMPLIANCE NOTICE



### FCC DECLARATION OF CONFORMITY

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when this 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 Vari-Lite system, service, and safety guidelines, may cause harmful interference to radio communications.

As tested under this standard:

#### FCC 47CFR Part 15 Subpart B ICES-003

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/her own expense.



### EU DECLARATION OF CONFORMITY

We, Vari-Lite LLC., 10911 Petal Street, Dallas, Texas 75238, declare under our responsibility for the products contained herein are in conformity with the essential requirements of the following European Directives and harmonized standards:

#### Low Voltage Director (LVD), 2014/35/EU EN 62368-1

#### Electromagnetic Compatibility Directive (EMC), 2014/30/EU EN 55032, EN 55035

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### CUSTOMER SERVICE

If you have any questions regarding this product, please contact Customer Service by phone at +1 214-647-7880 or by email at [entertainment.service@signify.com](mailto:entertainment.service@signify.com).

NEO X15 QUICK START GUIDE  
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