

EN

JudgeQC



Operation Manual

Register your product and get access to important product updates, exclusive content, service support, and other tools to help you get the most of your product. www.xrite.com/registration

Consult this documentation in all cases where the Attention symbol  appears. This symbol is used to inform you of any potential HAZARD or actions that may require your attention.

CE Declaration

Hereby, X-Rite declares that this Judge QC is in compliance with the essential requirements and other relevant provisions of Directive(s) EMC 2014/30/EU, LVD 2014/35/EC, and RoHS EU 2015/863.

Federal Communications Commission Notice

NOTE: 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 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.

Industry Canada Compliance Statement

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.



Safety Information

- **IF THE EQUIPMENT IS USED IN A MANNER NOT SPECIFIED BY X-RITE, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED.**
- **PLEASE READ AND FOLLOW INSTRUCTIONS:** Read and follow all instructions before you attempt to assemble, install or operate the unit.
- **CAUTION! THIS UNIT MUST BE EARTHED. DO NOT** connect to an ungrounded outlet. **DO NOT** use with 2-wire extension cords or adaptors.
- **OBEY WARNINGS:** Please comply with all warnings and safeguards that we provide in this manual. They have been written to keep you and your unit safe. If the unit is used in a manner not specified in this manual, the protection provided by the unit may be impaired.
- **CANOPY WEIGHS APPROXIMATELY 15 KG. ASSEMBLED UNIT WEIGHS APPROXIMATELY 27 KG.** Take care when lifting and obey manual handling safety procedures.
- **TAKE CARE NOT TO TRAP FINGERS OR HANDS WHEN POSITIONING THE CANOPY ON TOP OF THE BACK, SIDES AND BASE DURING ASSEMBLY.** Place hands under the front edge and on the outside of the canopy only.



• **CHECK VOLTAGE SETTING PRIOR TO PLUGGING IN THE UNIT.** Applying the incorrect voltage may cause the fuses to blow. Contact your local X-Rite representative for replacement fuses and follow the fuse replacement procedure in this manual.

- **ALWAYS UNPLUG THE UNIT BEFORE CHANGING THE VOLTAGE SELECTOR OR FUSE.**
- **NEVER BLOCK ACCESS TO THE MAINS INLET AND POWER SWITCH.** The mains inlet and power switch are located at the rear of the unit.
- **DO NOT BLOCK VENTS:** The vents allow air to circulate between the canopy interior and the ambient air. Blocking the vents will cause heat buildup within the canopy which may result in inaccurate lighting conditions, damage to the equipment, and possible personal injury.



• **USE ONLY A PROPER POWER SOURCE:** Use the proper power source for this unit. Consult the power label on the back of the unit for this information. Operation with a power source not specified on the power label may result in inaccurate lighting conditions, damage to the equipment, and possible personal injury.

- **SERVICE PROPERLY:** With the exception of lamp replacement, do not attempt to service this product yourself. If you should attempt unauthorized repairs, you invalidate the warranty that is active on your unit. For any other malfunctions in operation, contact X-Rite Technical Service.
- **UNPLUG THE UNIT BEFORE CHANGING THE LAMPS:** Always unplug the unit before you change the lamps.
- **ALLOW THE LAMPS TO COOL BEFORE HANDLING THEM.** Diffuser and lamps get hot during operation. Allow time to cool before touching.
- **CAREFULLY HANDLE THE LAMPS:** The lamps are made from glass. Take care not to knock or drop them. Always use lens paper or an equivalent to handle the replacement halogen lamps. Skin oils interfere with lamp performance.
- **CLEAN PROPERLY:** You can wipe the unit with a clean, white lint-free cloth. Do not apply liquid cleaners or agents containing wax, since these can yellow and change reflectance and gloss properties. Clean outer surfaces with a dampened cloth containing a mild soap.
- **PROTECT FROM WATER AND MOISTURE:** Maintain electrical safety when you use this unit. Do not use it in an area where there is possible hazard of electric shock from spilled water or other liquids or uncontrolled moisture.
- **DAMAGE REQUIRING SERVICE:** The unit must be serviced by qualified service personnel when the unit has been dropped or damaged, water or other liquid(s) have been spilled into the electrical components or the unit does not operate normally.
- **WARNING:** This instrument is not for use in explosive environments.
- **RETAIN THIS MANUAL FOR FUTURE REFERENCE:** Once you have read this manual, keep it handy for others to read or refer to when they need to operate the unit.

Disposal



Instructions for disposal: Please dispose of Waste Electrical and Electronic Equipment (WEEE) at designated collection points for the recycling of such equipment.

Proprietary Notice

The contents of this manual are the property of X-Rite and are copyrighted. Any reproduction in whole or part is strictly prohibited. Publication of this information does not imply any rights to reproduce or use this manual for any purpose other than installing, operating, or maintaining this instrument. No part of this manual may be reproduced, transcribed, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, electronic, magnetic, mechanical, optical, manual, or otherwise, without the prior written permission of an officer of X-Rite. This product may be covered by one or more patents. Copyright © 2017 by X-Rite "ALL RIGHTS RESERVED".

Warranty Information

X-Rite warrants this Product against defects in material and workmanship for a period of twelve (12) months from the date of shipment from X-Rite's facility, unless mandatory law provides for longer periods. During such time, X-Rite will either replace or repair at its discretion defective parts free of charge.

X-Rite's warranties herein do not cover failure of warranted goods resulting from: (i) damage after shipment, accident, abuse, misuse, neglect, alteration or any other use not in accordance with X-Rite's recommendations, accompanying documentation, published specifications, and standard industry practice; (ii) using the device in an operating environment outside the recommended specifications or failure to follow the maintenance procedures in X-Rite's accompanying documentation or published specifications; (iii) repair or service by anyone other than X-Rite or its authorized representatives; (iv) the failure of the warranted goods caused by use of any parts or consumables not manufactured, distributed, or approved by X-Rite; (v)

any attachments or modifications to the warranted goods that are not manufactured, distributed or approved by X-Rite. Consumable parts and Product cleaning are also not covered by the warranty.

X-Rite 's sole and exclusive obligation for breach of the above warranties shall be the repair or replacement of any part, without charge, which within the warranty period is proven to X-Rite 's reasonable satisfaction to have been defective. Repairs or replacement by X-Rite shall not revive an otherwise expired warranty, nor shall the same extend the duration of a warranty.

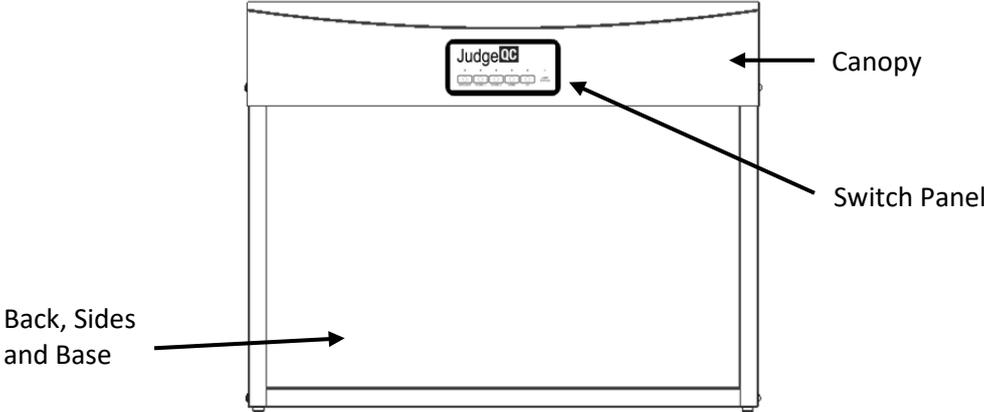
Customer shall be responsible for packaging and shipping the defective product to the service center designated by X-Rite. X-Rite shall pay for the return of the product to Customer if the shipment is to a location within the region in which the X-Rite service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service. Do not try to dismantle the Product. Unauthorized dismantling of the equipment will void all warranty claims. Contact the X-Rite Support or the nearest X-Rite Service Center, if you believe that the unit does not work anymore or does not work correctly.

THESE WARRANTIES ARE GIVEN SOLELY TO BUYER AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR APPLICATION, AND NONINFRINGEMENT. NO EMPLOYEE OR AGENT OF X-RITE, OTHER THAN AN OFFICER OF X-RITE, IS AUTHORIZED TO MAKE ANY WARRANTY IN ADDITION TO THE FOREGOING.

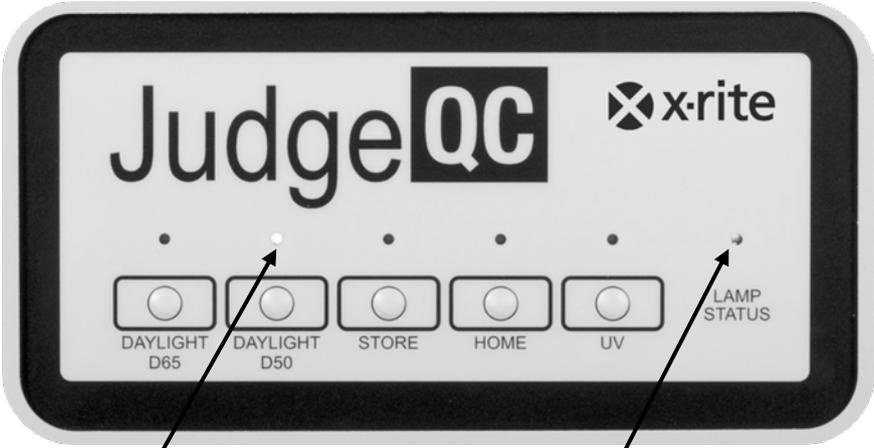
IN NO EVENT WILL X-RITE BE LIABLE FOR ANY OF BUYER'S MANUFACTURING COSTS, OVERHEAD, LOST PROFITS, GOODWILL, OTHER EXPENSES OR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF ANY WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. IN ANY EVENT OF LIABILITY, X-RITE'S MAXIMUM LIABILITY HEREUNDER WILL NOT EXCEED THE PRICE OF THE GOODS OR SERVICES FURNISHED BY X-RITE GIVING RISE TO THE CLAIM.

Introduction and Installation

The Judge QC is a visual color evaluation system which provides selectable standardized light sources.



Switch Panel



Light Source LED:
Illuminates *Blue* when the selected light source is in use

'Lamp Status' LED

Key Features

Five light sources:

- **Daylight:** CIE D65 (6500 K) or CIE D50 (5000 K)
- **Store 1 or Daylight:** Halophosphor - Cool White (CWF) (4100 K) or CIE D50 (5000 K) in Dual Daylight Models
- **Store 2:** Triphosphor - 840 (4000 K) or 835 (3500 K) or 830 (3000 K) or Halophosphor - Cool White (CWF) (4100 K)

- **Home:** CIE Illuminant A (2856 K)
- **UV:** Ultraviolet (Fluorescent Black Light)

NOTE: Refer to the light source table displayed on the outside of the canopy to identify exactly which lamp types are fitted in the cabinet.

Other features:

- Balanced light that conforms to or exceeds published international standards for the visual evaluation of color.
- A 'Lamp Status' LED indicates when lamps are nearing the end of their usable life.

'Lamp Status'	Hour Count	Day Count	Action
GREEN	0-1900	0-334	None – Lamps are within the manufactures stated lifetime.
RED / GREEN (FLASHING)	1901-1999	335-364	Order replacement lamps – lamps are approaching the end of their usable life.
RED	2000	365	Replace lamps – lamps are no longer within the manufactures stated lifetime.

- Durable, neutral matte paint finish - Munsell N7.
- Instant illumination allows for rapid switching between light sources.
- Switch panel features embossed keys to guide the user during fingertip operation.

Recommendations for Placement



- **NEVER BLOCK ACCESS TO THE MAINS INLET AND POWER SWITCH.** The mains inlet and power switch are located at the rear of the unit.
- **DO NOT BLOCK VENTS:** The vents allow air to circulate between the canopy interior and the ambient air. Blocking the vents will cause heat buildup within the canopy which may result in inaccurate lighting conditions, damage to the equipment, and possible personal injury.

Make certain that the unit is placed on a stable, vibration-free surface that will support the weight of the unit. Assembled weight 27 Kg.

When choosing where to position the cabinet the following factors should be taken into consideration:

- Avoid placing in the immediate vicinity of other light sources, i.e. windows, luminaires, spot lights, etc.
- If lighting in the immediate vicinity is required we recommend artificial CIE daylight to match the cabinet (D50/D65) at a level of approximately 200 to 300 lux.
- Nearby windows should be fitted with suitable light-excluding blinds.
- Strong colors should not be visible in the observer's field of view. Ideally, the walls directly behind the cabinet should be neutral grey – Munsell N7.
- The operator carrying out a visual assessment should not wear clothing of a strong color.
- The ideal ambient temperature of the room should be between 18 to 25°C.

Cabinet Assembly



- **CANOPY WEIGHS APPROXIMATELY 15 KG. ASSEMBLED UNIT WEIGHS APPROXIMATELY 27 KG.** Take care when lifting and obey manual handling safety procedures.
- **TAKE CARE NOT TO TRAP FINGERS OR HANDS WHEN PLACING THE CANOPY ON TO THE BACK, SIDES AND BASE DURING ASSEMBLY.** Place hands under the front edge and on the external surfaces of the canopy only.

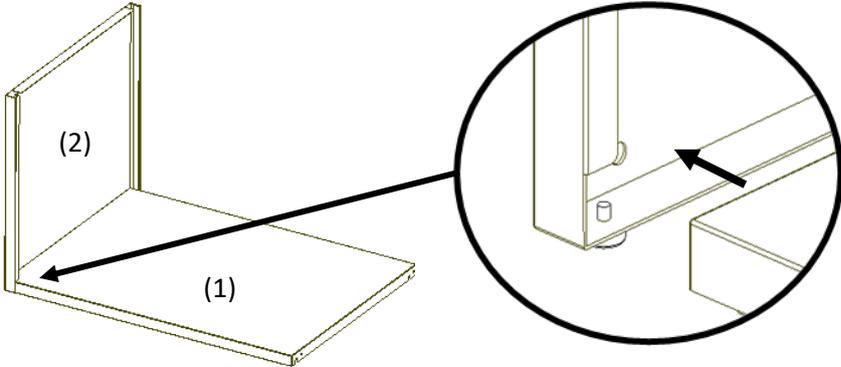
Move the cabinet shipping container to the general area that the cabinet is to be used. Be sure to allow sufficient room for assembly. Make sure to remove all contents from the packaging before discarding.

Please check to ensure the items below were enclosed with the Judge QC:

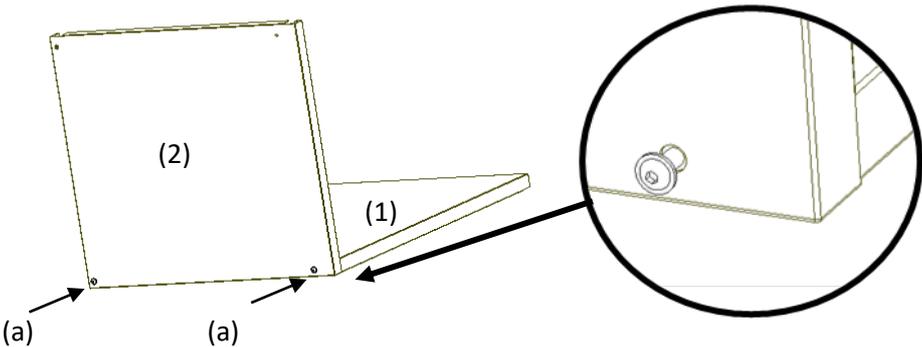
- Base Panel
- Left Side
- Right Side
- Back Panel
- Canopy
- Fixings and tool
- Power cable
- User Manual
- Documentation and registration material

TAKE CARE to avoid scratching light booth powder-coated surfaces in the following assembly steps.

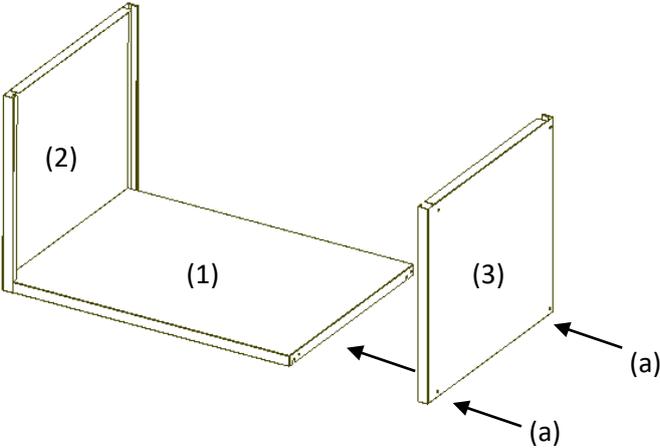
Step 1. Slide the **Base Panel (1)** into the **Left Side (2)**.



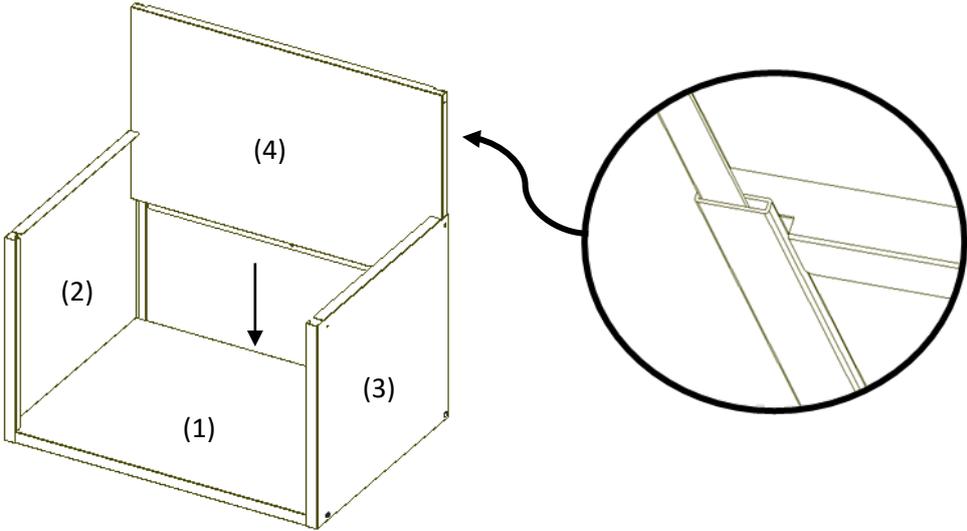
Step 2. Secure the **Base Panel (1)** to the **Left Side (2)** using two **Screws (a)**.



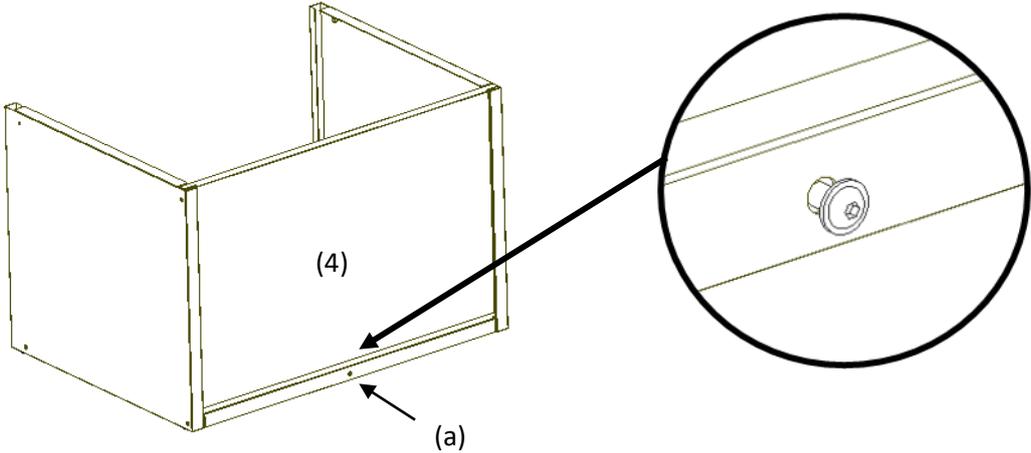
Step 3. Repeat steps 1. and 2. for the **Right Side (3)**.



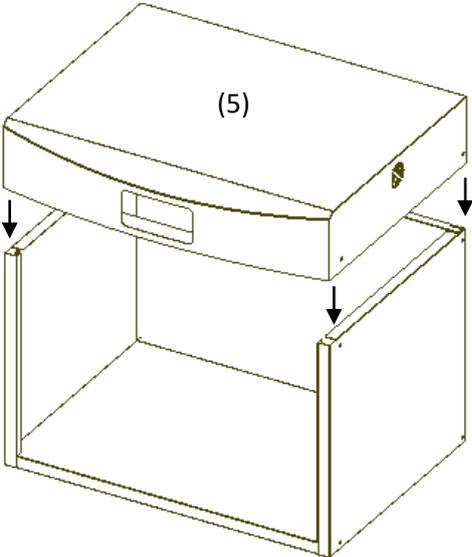
Step 4. Slide the **Back Panel (4)** down inside the folds on the **Left Side (2)** and **Right Side (3)**, until it rests on the **Base Panel (1)**.



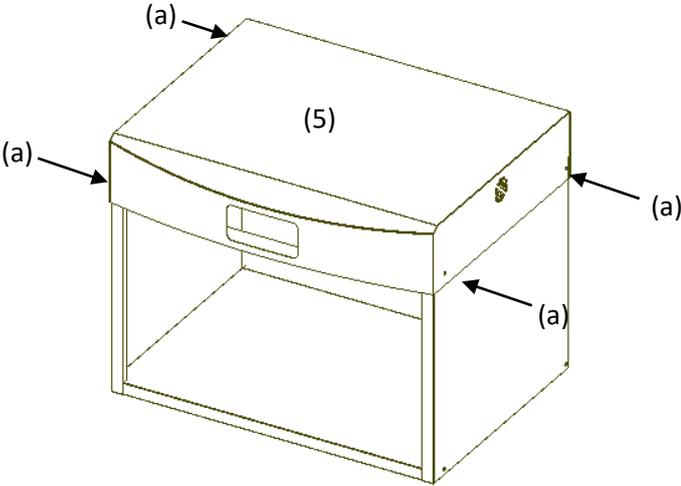
Step 5. Secure the **Back Panel (4)** to the **Base Panel (1)** using one **Screw (a)**.



Step 6. Using two people to lift the canopy from either side, place the **Canopy (5)** on to the assembled **Back, Sides and Base**.



Step 7. Secure the **Canopy (5)** in place using four **Screws (a)**.



Specifications

Dimensions <i>Shipping Dimensions</i>	H 545 mm x D 535 mm x W 685 mm H 340 mm x D 670 mm x W 830 mm
Weight <i>Shipping Weight</i>	27 Kg 31.5 Kg
Electrical	Power 2.5A 100/115/127/230Vac 50/60Hz Main Fuse Inlet Socket Live - 2.5A Neutral – 2.5A Power Cord Connector: country specific Plug: IEC 60320 C13 type
Safety Compliance	Pollution Degree: 2 Usage: Indoor Altitude: 2000M Transient Overvoltage: Category II
Environmental Specification	Operating temperature: 0°C to 40°C (32°F to 104°F)

Design and specifications subject to change without notice.

Operation

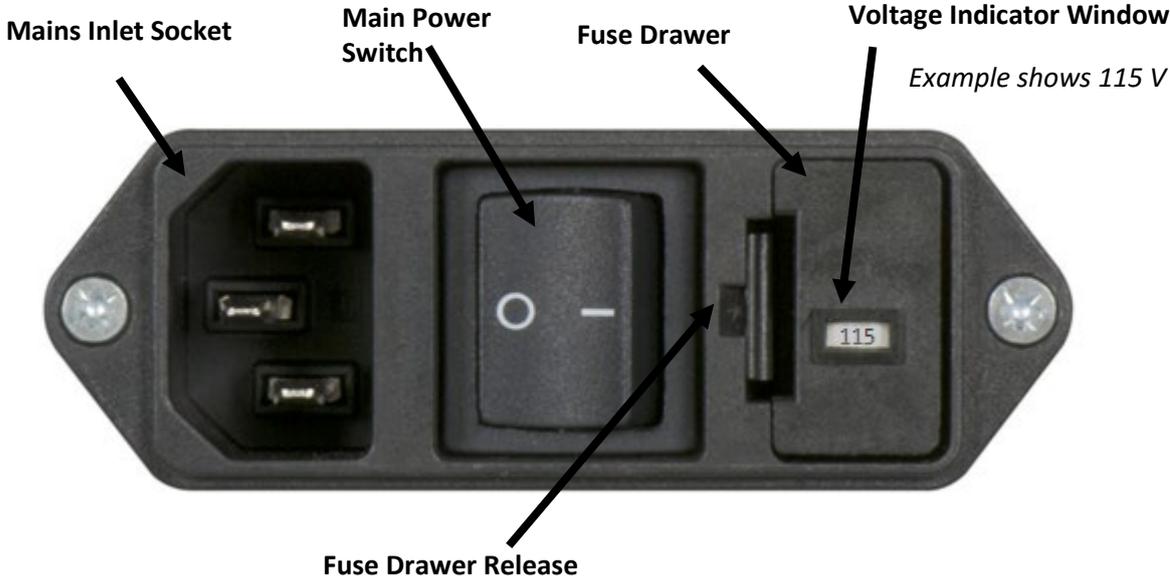


If the equipment is used in a manner not specified by X-Rite, the protection provided by the equipment may be impaired.

- **ALWAYS UNPLUG THE UNIT BEFORE CHANGING THE VOLTAGE SELECTOR OR FUSE.**
- **CAUTION! THIS UNIT MUST BE EARTHED. DO NOT** connect to an ungrounded outlet. **DO NOT** use with 2-wire extension cords or adaptors.
- **CHECK VOLTAGE SETTING PRIOR TO PLUGGING IN THE UNIT.** Applying the incorrect voltage may cause the fuses to blow. Contact your local X-Rite representative for replacement fuses and follow the fuse replacement procedure in this manual.
- **USE ONLY A PROPER POWER SOURCE:** Use the proper power source for this unit. Consult the power label on the back of the unit for this information. Operation with a power source not specified on the power label may result in inaccurate lighting conditions, damage to the equipment, and possible personal injury.

Applying Power to the Assembled Unit

- 1. The mains inlet socket and power switch is located on the rear of the cabinet.
- 2. Check the voltage before applying power to the unit. To check the voltage, identify the voltage displayed in the 'Voltage Indicator Window' of the fuse drawer.



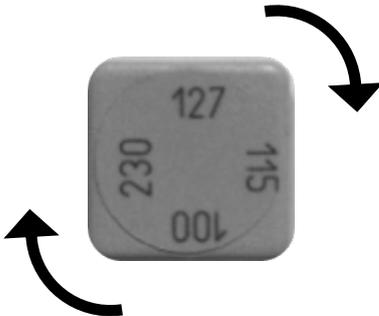
- 3. If the voltage displayed is correct, plug the power cord into the mains inlet socket, then plug the cord into a properly rated wall socket.
- 4. **IF THE VOLTAGE DISPLAYED IS INCORRECT** proceed to "Changing the Voltage Selection Unit" below.
- 5. Switch on the power switch.

Changing the Voltage Selection Unit



• **ALWAYS UNPLUG THE UNIT BEFORE CHANGING THE VOLTAGE SELECTOR OR FUSE.**

- 1. To remove the **Fuse Drawer**, insert a small flat bladed screwdriver or similar sized tool into the **Fuse Drawer Release**, indicated above. The fuse drawer will spring out far enough to grasp the drawer and remove it completely.
- 2. Note the voltage displayed in the window. If a different voltage is needed, remove the gray **Voltage Selection Unit** and rotate to display the desired voltage in the **Voltage Indicator Window**. Reinsert the Voltage Selection Unit into its housing.



- 3. With both fuses properly seated, slide the **Fuse Drawer** back into the unit. Gently press the Fuse Drawer until you hear a distinct click.

4. Reconnect the power cord to the unit and apply power. If the unit shows signs that the fuses may have blown again contact your X-Rite Service Representative.

Fuse Check and Replacement Procedure



- **ALWAYS UNPLUG THE UNIT BEFORE CHANGING THE VOLTAGE SELECTOR OR FUSE.**

1. Locate the Fuse Drawer at the rear of the unit and record the number exposed in the Voltage Indicator Window. This number represents the AC power setting (VAC) and will be one of the following: 100, 115, 127, 230.
2. Follow **Step 1.** above - **Changing the Voltage Selector Unit** to remove the fuse drawer.
3. Remove and inspect the two fuses. If there is evidence that one or both fuses have blown, replace them with T2.5A H250V fuses. Both the fuses should be always used.
4. With both fuses properly seated, slide the Fuse Drawer back into the unit. Before you close it, make certain to look at the Voltage Indicator Window to verify the proper voltage is displayed.
5. Gently press the Fuse Drawer until you hear a distinct click.
6. Reconnect the power cord to the unit and apply power. If the unit shows signs that the fuses may have blown again contact your X-Rite Service Representative.

Selecting a Light Source

NOTE: Refer to the light source table displayed on the outside of the canopy to identify exactly which lamp types are fitted in the cabinet.

- The LEDs above the buttons will illuminate *blue* when a light source is turned on.
- **All** switches except the **UV** are interlocked; meaning that when another light source button is pressed the previously selected light source will switch off.
- Pressing the same button again will also turn off the light source.

Press the button labeled:

1. **DAYLIGHT** for the daylight fluorescent source;
2. **STORE 1 or DAYLIGHT D50** for the first point of sale *or* CIE D50 fluorescent light source;
3. **STORE 2** for the second point of sale fluorescent light source;
4. **HOME** for the incandescent/halogen light source;
5. **UV** for the ultraviolet light source. Note: The ultraviolet light source (UV) can be used in combination with any of the light sources or by itself for evaluation of optical brighteners, whitening agents, or fluorescent dyes or pigments.

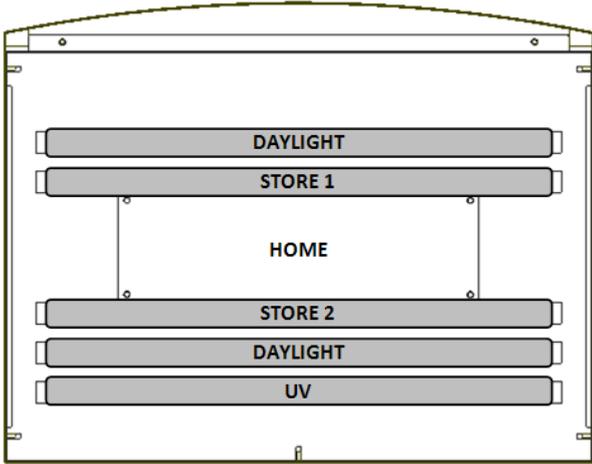
Changing Lamps



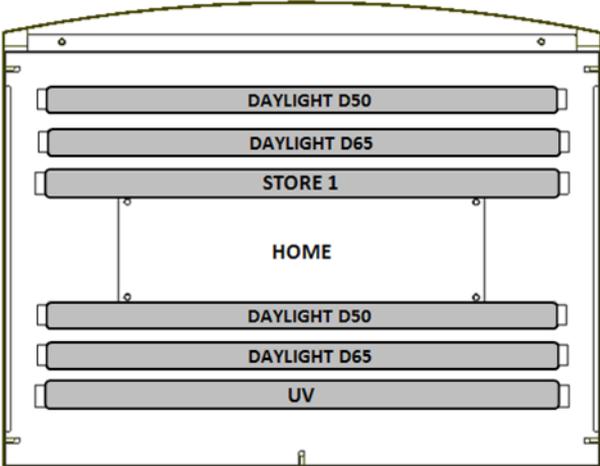
- **UNPLUG THE UNIT BEFORE CHANGING THE LAMPS:** Always unplug the unit before you change the lamps.
- **ALLOW THE LAMPS TO COOL BEFORE HANDLING THEM.** Diffuser and lamps get hot during operation. Allow time to cool before touching.
- **CAREFULLY HANDLE THE LAMPS:** The lamps are made from glass. Take care not to knock or drop them. Always use lens paper or an equivalent to handle the replacement halogen lamps. Skin oils interfere with lamp performance.

1. When the 'Lamp Status' indicator is flashing RED all of the lamps within the cabinet should be replaced.
2. To remove the fluorescent lamps rotate the bulb until the pins are able to slide loose from their fittings.
3. Remove the diffuser by unscrewing the four bolts to access the halogen bulbs.
4. Replace the lamps according to the configuration below;
Note: Always use lens paper or an equivalent to handle the replacement halogen lamps. Skin oils interfere with lamp performance.

Single Daylight:



Dual Daylight:



5. Verify that the lamps are replaced properly by illuminating each one separately to make certain that the operating switch turns the desired lamp ON and OFF.
6. To reset the lamp status indicator:
 - a) Push and hold the three buttons circled below for 3 seconds. The blue LED's above will all illuminate when this has registered.



- b) Then push and hold the second button from the left for 3 seconds.



- c) Switch off the main power behind the unit. The lamp status indicator is reset and will only resume counting from when the unit is next powered up.

Replacement Lamps



- **SERVICE PROPERLY:** With the exception of lamp replacement, do not attempt to service this product yourself. If you should attempt unauthorized repairs, you invalidate the warranty that is active on your unit. For any other malfunctions in operation, contact X-Rite Technical Service.

Parts: Consult your X-Rite Price List for additional Lamp Kit Options or call your local X-Rite office.

LS5D65840

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D65/A) (1x TL84/CWF/UV)

LS5D65835

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D65/A) (1x U35/CWF/UV)

LS5D65830

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D65/A) (1x U30/CWF/UV)

LS5D50840

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D50/A) (1x TL84/CWF/UV)

LS5D50835

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D50/A) (1x U35/CWF/UV)

LS5D50830

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D50/A) (1x TL84/CWF/UV)

LS5DDCWF

Full Lamp replacement kit for Judge QC and PANTONE 5 Light Booth. (2 x D50/D65/A) (1x CWF/UV)

A-LK/L24D50

Two D50 24" T8 Lamps For Judgell, JudgeQC and PANTONE 3/5 (two lamps per booth)

A-LK/L24D65

Two D65 24" T8 Lamps for Judgell, JudgeQC and PANTONE 3/5 (two lamps per booth)

A-LK/L24U30

Two U30 24" T8 Lamps for Judgell, JudgeQC and PANTONE 3/5

A-LK/L24U35

Two U35 24" T8 Lamps for Judgell, JudgeQC and PANTONE 3/5

A-LK/L24TL84

Two TL84 24" T8 Lamps for Judgell, JudgeQC and PANTONE 3/5

A-LK/JUCW

Four CWF 24" T12 Lamps for Judgell, JudgeQC and PANTONE 3/5

L24CIEA

CIE A Individual Halogen Capsule for JudgeQC and PANTONE 3/5 (two required per booth)

L24CWF

CWF Individual 24" T8 Lamp with European CE mark for Judgell, JudgeQC and PANTONE 3/5

A-LK/L24UV

Two UVA 24" T8 Lamps for Judgell, JudgeQC and PANTONE 3/5

SD33-07

Line Cord, North America

SD33-33

Line Cord, Argentina

SD33-63

Line Cord, Australia

SD33-45

Line Cord, Brazil

SD33-41

Line Cord, China

SD33-08

Line Cord, Europe

SD33-21

Line Cord, India

SD33-48

Line Cord, Italy

SD33-49

Line Cord, Switzerland

SD33-34

Line Cord, United Kingdom

SD33-31

Line Cord, Japan

China RoHs Disclosure Table

产品中有害物质的含量							
X-Rite, Incorporated. Model Judge QC Series							
Instrument Assembly	仪器组件	有害物质					
		铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6)	多溴联苯 (PBB)	多溴联苯醚 (PBDE)
All PCB Assembly	全部 PCB 组件	X	O	O	O	O	O
Fluorescent Lamps	荧光灯	X	X	O	O	O	O
Ballasts	镇流器	X	O	O	O	O	O
Cords & Cables	线与电缆	X	O	O	O	O	O
AC Line Filter	AC线路滤波器	X	O	O	O	O	O
Fasteners	扣件	X	O	O	O	O	O
Packaging Material	包装材料	O	O	O	O	O	O
本表格依据 SJ/T 11364 的规定编制。 Table prepared in accordance with SJ/T 11364-2014 standards.							
O : 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。 Indicates the concentration of the hazardous substance in all homogeneous material of the part is below the threshold GB/T 26572 standards.							
X : 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。 Indicates the concentration of hazardous substance in at least one homogeneous material of the part is above the threshold of the GB/T 26572 standards.							
产品采用的EPUP条件 - 在中国销售的电子电气产品环保使用期限的, 按下列安全注意事项使用的产品, 从生产之日起的表达, 使用有害的产品包含在生命体征内物质不会对环境, 人身和财产造成严重影响。							
Products EPUP conditions of use - in Chinese sales of electrical and electronic products environmental protection use period, expressed according to the following Safety Precautions for the use of the product, starting from the date of manufacture, the use of harmful product contained within the life signs substance does not have a serious impact on an environment, persons and property.							

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Corporate Headquarters

X-Rite, Incorporated
4300 44th Street SE
Grand Rapids, Michigan 49512
Phone 1 800 248 9748 or 1 616 803 2100
Fax 1 800 292 4437 or 1 616 803 2705

European Headquarters

X-Rite Europe GmbH
Althardstrasse 70
8105 Regensdorf
Switzerland
Phone (+41) 44 842 24 00
Fax (+41) 44 842 22 22

X-Rite Asia Pacific Limited

Suite 2801, 28th Floor, AXA Tower, Landmark East, 100 How Ming Street, Kwun Tong, Kowloon, Hong Kong
Tel: +(852)2568-6283 Fax: +(852)2885 8610
Email: info_ap@xrite.com

X-Rite (Shanghai) Color Management Co., Ltd.

Floor 6, Block 1 Fu Quan North Road NO.518, Changning District, Shanghai 200335 P.R.China (From Jul18, 2016)
Tel: (021)3279-6666
Email: info_shanghai@xrite.com

X-Rite Beijing Office

Room C1201, Fangheng International Center, No.6, Futong East Street, Chaoyang District, Beijing, 100102
Tel: 010-8478 5490 Fax: 010-8478 5491
Email: info_beijing@xrite.com

X-Rite China Service Center

Floor 6, Block 1 Fu Quan North Road NO.518, Changning District, Shanghai 200335 P.R.China (From Jul18, 2016)
Tel: (021)3279-6666
Email: info_shanghai@xrite.com

X-Rite Guangzhou Office

Unit 2510 Tower B, China International Centre, No.33, Zhongshan 3 Road, Guangzhou, 510055, China
Tel: 020 - 8375 2900 Fax: (020)8375-2911
Email: info_guangzhou@xrite.com

X-Rite — Japan

6F West Wing, Telecom Center, 2-5-10 Aomi Koto-ku, Tokyo, 135-0064 Japan
Phone (03)-5579-6545
Fax (03)-5579-6547

X-Rite — Korea

13F, PANTECH Building, 179 Seongam-ro, Mapo-gu Seoul, 03929 South Korea
Phone 070-4279-9119

X-Rite — South East Asia and Pacific

8 Changi Business Park Ave 1 #07-51, UE BizHub East (South Tower) S486018
Singapore, Singapore
Phone +65-64200411
Email info.SEAAsiaPacific@xrite.com

X-Rite — India Pvt. Ltd

Esteem Tower, No. 71, Railway Parallel Road, Kumara Park (west)
Bangalore, 560020 India
Phone +91 80 4352 0214
Email info.SEAAsiaPacific@xrite.com

Please visit www.xrite.com for a local office near you.