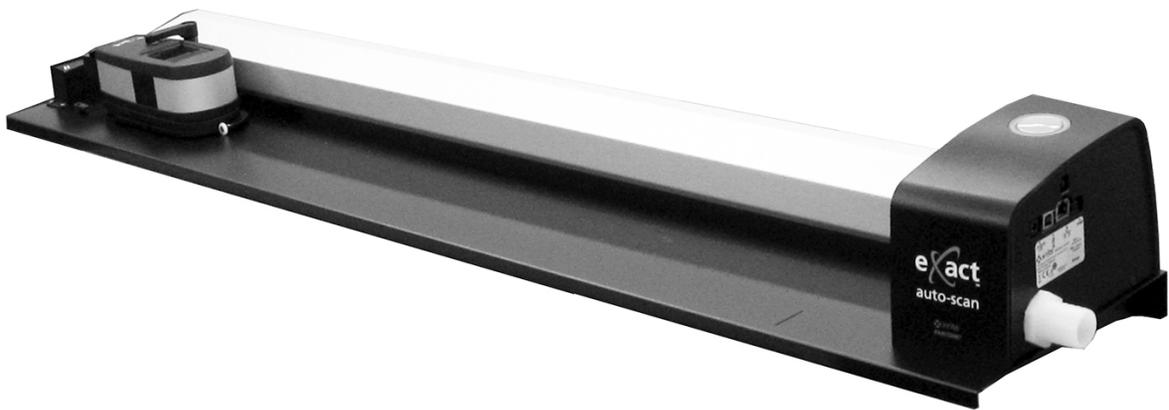


x-rite | e^xact™

Auto-Scan



Setup and Operation

 x-rite
PANTONE®

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, Incorporated, declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 2014/35/EU (LVD), 2014/30/EU (EMC), and RoHS 2011/65/EU.

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

CAN ICES-3 (A) / NMB-3 (A)

Equipment Information



Use of this equipment in a manner other than that specified by X-Rite, Incorporated may compromise design integrity and become unsafe.

WARNING: This instrument is not for use in explosive environments.

ADVERTENCIA: NO use este aparato en los ambientes explosivos.

AVVERTIMENTO: NON usare questo apparecchio in ambienti esplosivi.

WARNUNG: Das Gerät darf in einer explosiven Umgebung NICHT verwendet werden.

AVERTISSEMENT: Cet instrument ne doit pas être utilisé dans un environnement explosif.

CAUTION: CLASS 1 LASER PRODUCT - Wavelength 637 nm

Conforms to IEC 60825-1: 2007 and 21CFR1040.10 Safety of Laser Products.

LI635-5-3(8x26)42-F1500 P/N 70107593 Picotronic GmbH

ATTENTION : PRODUIT LASER DE CLASSE 1 - Longueur d'onde de 637 nm

Conforme aux normes IEC 60825-1 : 2007 et 21CFR1040.10 relatives à la sécurité des produits laser.

Puissance de sortie max. 3 mW - géométrie à laser en ligne (source laser 3 mm max. dans la direction de la ligne 76,8 cm x 1 cm à 1 m de distance).



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

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This product may be covered by one or more patents. Refer to the instrument for actual patent numbers.

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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.

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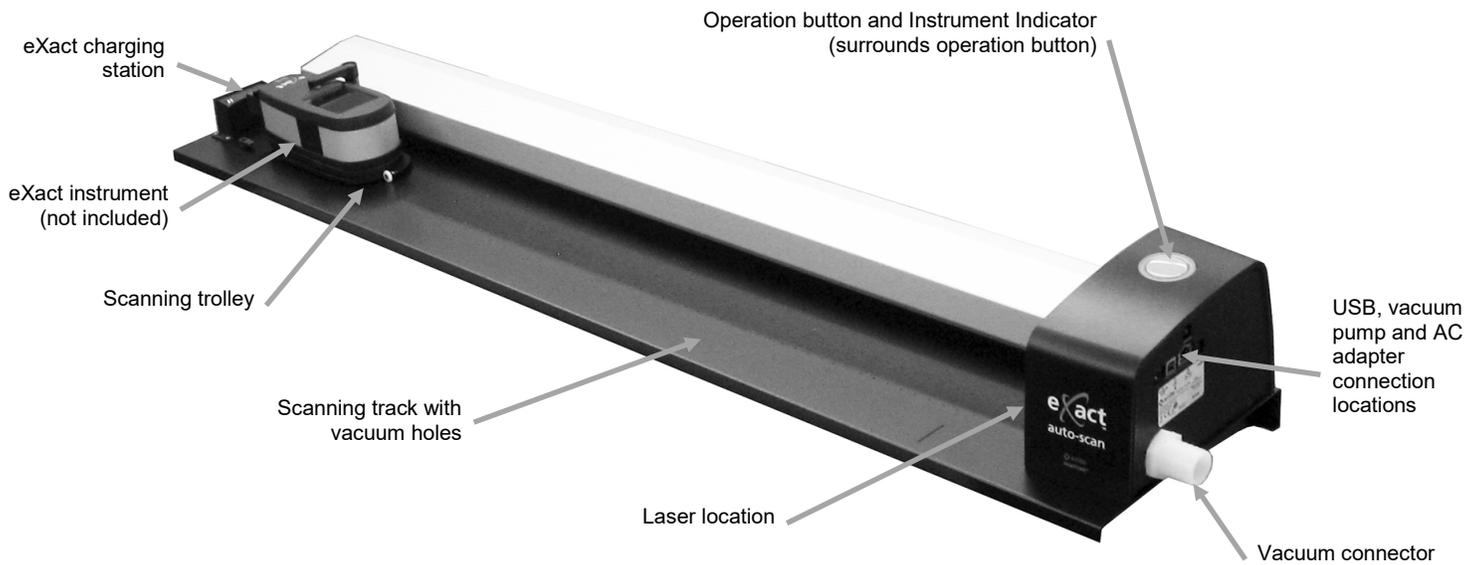
IN NO EVENT WILL X-RITE BE LIABLE FOR ANY OF BUYER'S MANUFACTURING COSTS, OVERHEAD, LOST PROFITS, GOODWILL, OTHER EXPENSES OR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF ANY WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. IN ANY EVENT 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.

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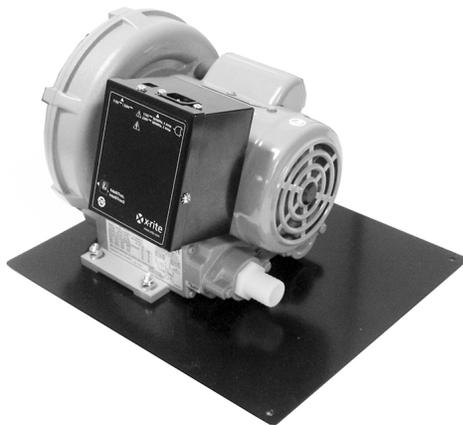
Overview and Setup

The eXact Auto-Scan system provides fast, press-side color control. The instrument can also be detached from the scanning trolley to allow you to take spot check measurements.



Vacuum Pump (optional)

A series of small holes located in the surface of the track hold down the press sheet when the optional vacuum pump is connected.



Foot Switch (optional)

The optional foot switch provides “hands-free” measurement activation.



About this manual

This manual covers the installation, basic operation and maintenance of the system. Specific instructions for using the instrument with your software application can be found in the software online help.

Unpacking and Inspection

After removing the instrument from the shipping carton, inspect it for damage. If any damage has occurred during shipping, immediately contact the transportation company. Do not proceed with installation until the carrier's agent has inspected the damage.

Your instrument was packaged in a specially designed carton to assure against damage. If shipment is necessary, the instrument should be packaged in the original carton along with all the accessories. If the original carton is not available, contact X-Rite to have a replacement shipped to you.

Packaging Contents:

- eXact Auto-Scan
- Charging Adapter
- USB interface cable
- AC adapter (X-Rite P/N SE30-277) and line cord
- Paper stop / flat hold down magnet (4)
- Handled paper stop (2)
- Vacuum pump (optional)
- Foot switch (optional)
- eXact InkKeyControl 2 software (optional)

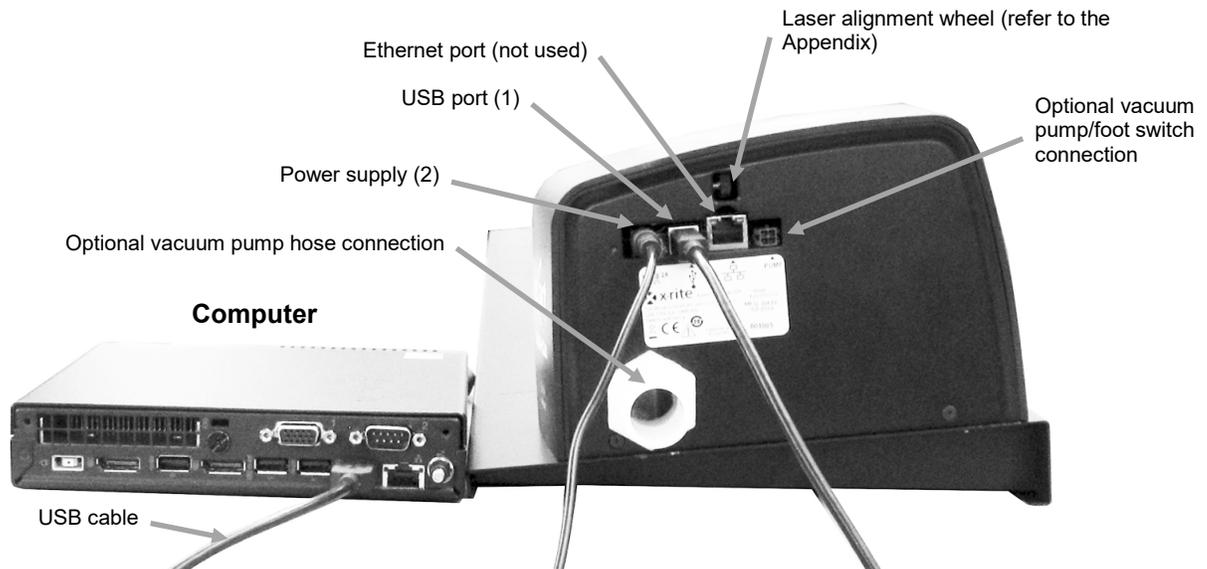
System Connections

Note: Please allow the system to stabilize at room temperature before plugging the power supply into an AC wall receptacle.



Operational hazard exists if a power supply other than X-Rite SE30-277 is used.

1. Plug one end of the USB cable into the port on your computer.
2. Plug the other end of the cable into the USB port (1) on the right side of the system.
3. Plug the input connector from the eXact Auto-Scan power supply into the input port (2) located on the right side of the system.



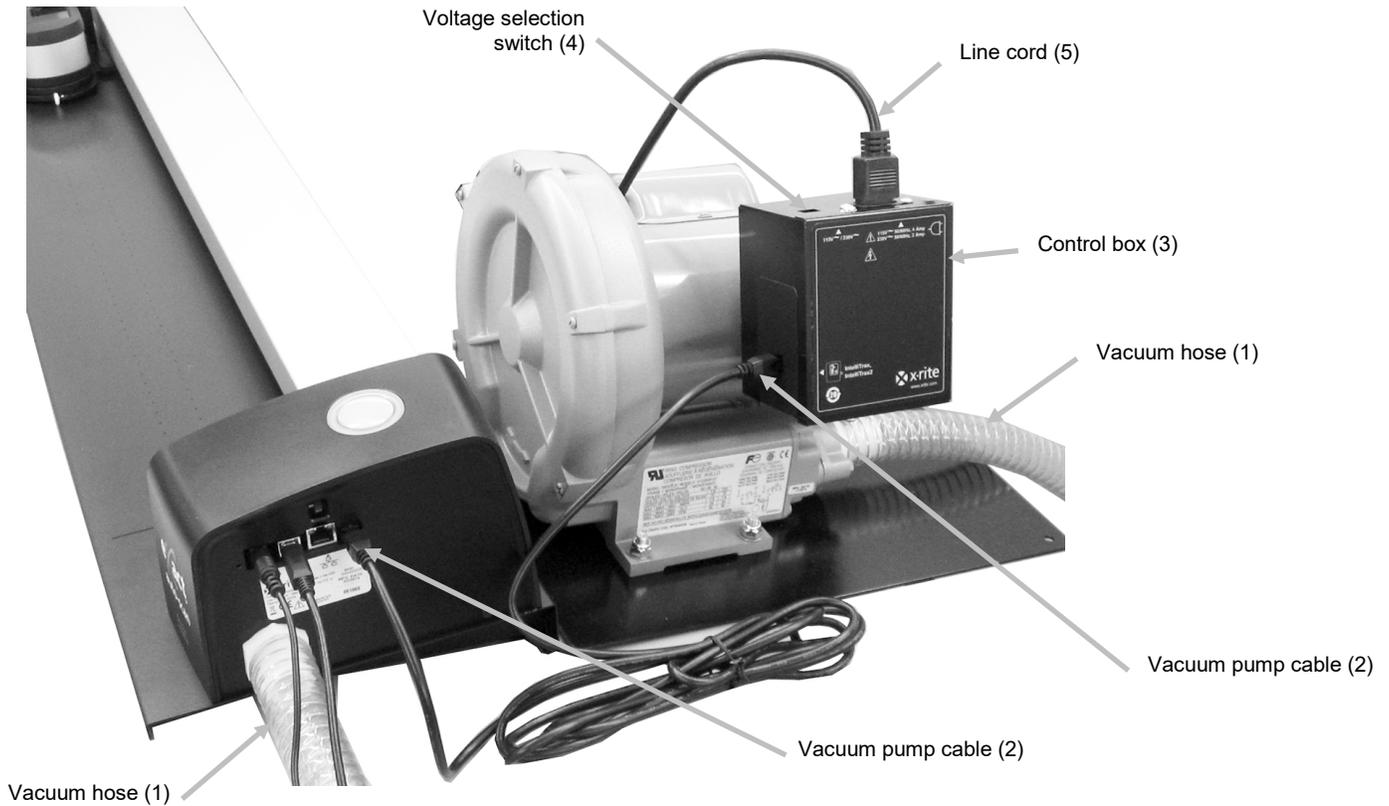
4. Plug the detachable line cord into the power supply and then plug the line cord into the AC wall receptacle.
5. Connect the computer power supply, monitor, keyboard and mouse (if applicable) to the computer according to the instructions supplied with those devices.

NOTE: Refer to the following pages for information on connecting the optional vacuum pump and foot switch if required.

Connecting the Vacuum Pump Only (optional)

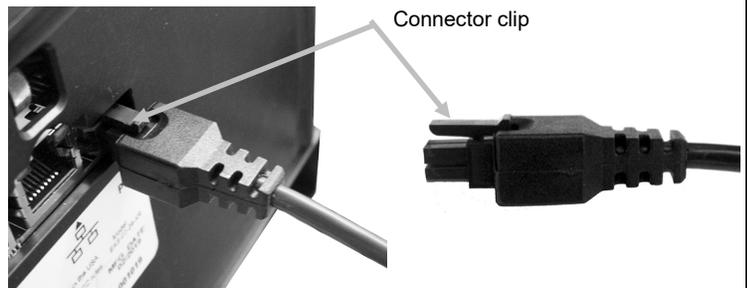


1. Connect one end of the vacuum hose (1) to the barbed input fitting located on the vacuum pump, and the other end to the barbed fitting on the right side of the system.
2. Plug one end of the vacuum pump cable (2) into the connector on the control box (3) and the other end of the cable into the connector on the right side of the system.
IMPORTANT: Refer to the bottom of the page for the proper procedure to remove the vacuum pump cable connectors from the eXact Auto-Scan and control box.
3. Make sure the voltage selection switch (4) on the top of the control box (3) is set to the proper line voltage for your region.
4. Connect the detachable line cord (5) to the control box (3), and then plug the line cord into an easily accessible, grounded AC wall receptacle. **Note: Only use appropriately approved AC Line Cord that X-Rite provides. Any other AC Line cord can compromise the integrity of regulatory agencies approvals for this product. Please contact X-Rite for replacement of the AC Line cord suitable maintaining this products compliance.**



Proper Vacuum Pump Cable Removal Procedure

1. Press downward on the clip at the top of the cable connector.
2. Slowly pull cable connector outward.



Connecting the Foot Switch and Vacuum Pump (optional)

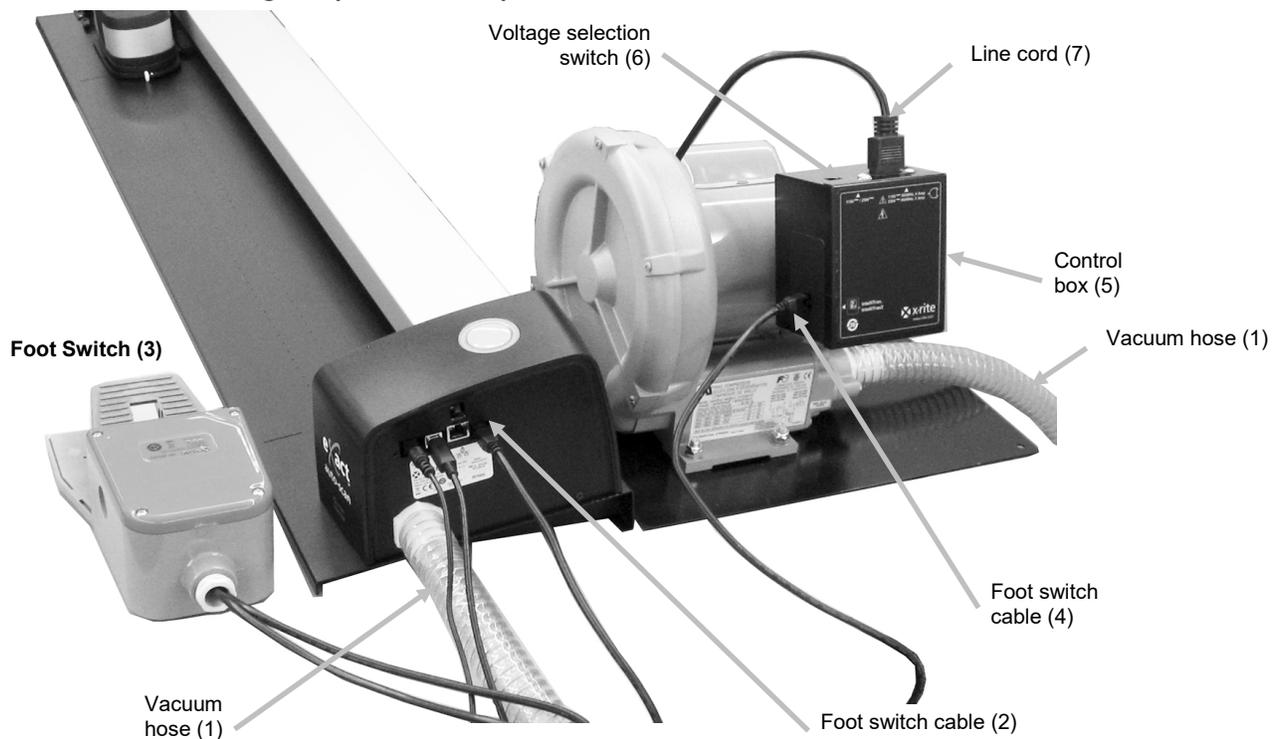


The foot switch option can only be used in conjunction with the optional vacuum pump.

1. Connect one end of the vacuum hose (1) to the barbed input fitting located on the vacuum pump, and the other end to the barbed fitting on the right side of the system.
2. Plug one cable (2) from the foot switch (3) into the connector on the right side of the system.
3. Plug the other cable (4) from the foot switch (3) into the connector on the vacuum pump control box (5).

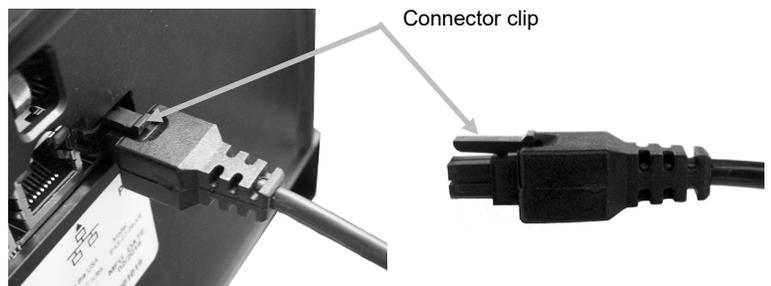
IMPORTANT: Refer to the bottom of the page for the proper procedure to remove the foot switch cable connectors from the eXact Auto-Scan and control box.

4. Make sure the voltage selection switch (6) on the top of the control box (4) is set to the proper line voltage for your region.
5. Connect the detachable line cord (7) to the control box (5), and then plug the line cord into an easily accessible, grounded AC wall receptacle. **Note: Only use appropriately approved AC Line Cord that X-Rite provides. Any other AC Line cord can compromise the integrity of regulatory agencies approvals for this product. Please contact X-Rite for replacement of the AC Line cord suitable maintaining this products compliance.**



Proper Foot Switch Cable Removal Procedure

1. Press downward on the clip at the top of the cable connector.
2. Slowly pull cable connector outward.



Installing the eXact InkKeyControl 2 Software (Optional)

System Requirements

- 2 GHz computer processor, 3 GHz recommended
- 2 GB minimum, 4 GB recommended
- Windows 7, Windows 8, Windows 10
- 100 GB hard drive or higher
- 17" touch-screen monitor with 1280 x 1024 resolution minimum, 22" touch-screen monitor with 1920 x 1080 resolution recommended

Installing the Software

NOTE: Shut down the Windows firewall and any anti-virus software you may be running. If you are reinstalling or updating the software, you must first uninstall the current version of eXact InkKeyControl 2 from your computer. This **will not** delete any of your stored database files. All information will be retained.

The eXact InkKeyControl 2 software uses a standard Windows installation procedure.

1. Insert the eXact InkKeyControl 2 software flash drive into the USB port. If eXact InkKeyControl 2 setup screen does not open automatically, open Windows Explorer and browse to the USB drive letter. Double-click the **Setup.exe** file.
2. The setup program guides you through the rest of the installation process. Follow the instructions on each setup screen to complete the installation.
3. Refer to the eXact InkKeyControl 2 online help system for information on operation of the software.

NOTE: eXact InkKeyControl 2 uses a free version of SQL Server. This version is fully functional with a few limitations. Please refer to the online help in the Database Administration Tool for more information.

eXact Auto-Scan Indicator

The indicator that surrounds the operation button illuminates system operation conditions.

Solid Green: indicates that the eXact instrument is docked at the charging station and ready for use.

Solid Orange: indicates that the instrument is taking a measurement.



Setting Up the eXact Instrument

1. Activate the Bluetooth function on your instrument and pair it with your computer. Refer to the eXact User Guide for additional information.
2. Plug the charging adapter (1) into the back of the eXact instrument. The adapter is properly attached when the tab on the bottom snaps into the security cable slot on the back.

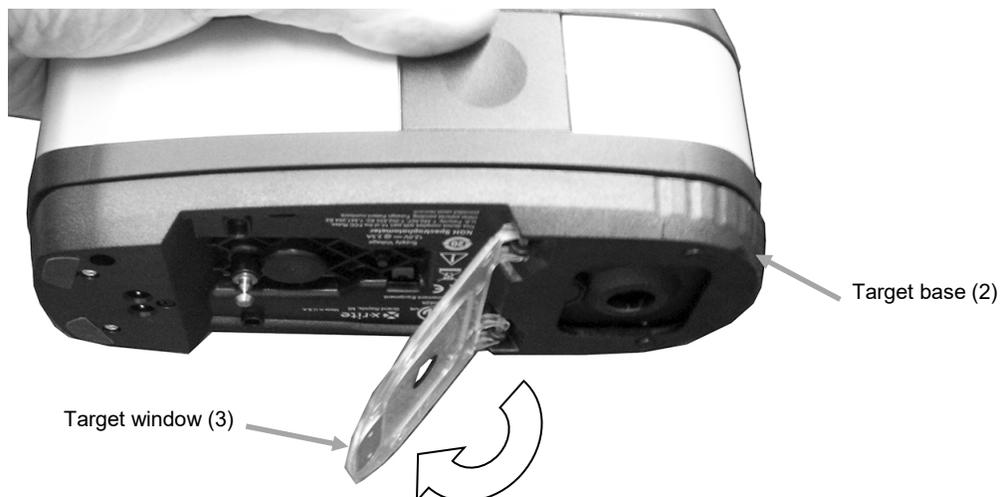
To remove the charging adapter, push up on the locking tap and pull outward.



NOTE: If the Bluetooth function is not used, route the USB for the eXact instrument in the channel at the top of charging adapter. This will help prevent the cable from interfering with the charging station and track during operation. This USB cable is separate from the eXact Auto-Scan system USB cable that was previously installed. Plug the square end of the USB cable into the back of the instrument. Plug the USB cable into an available port on your computer.



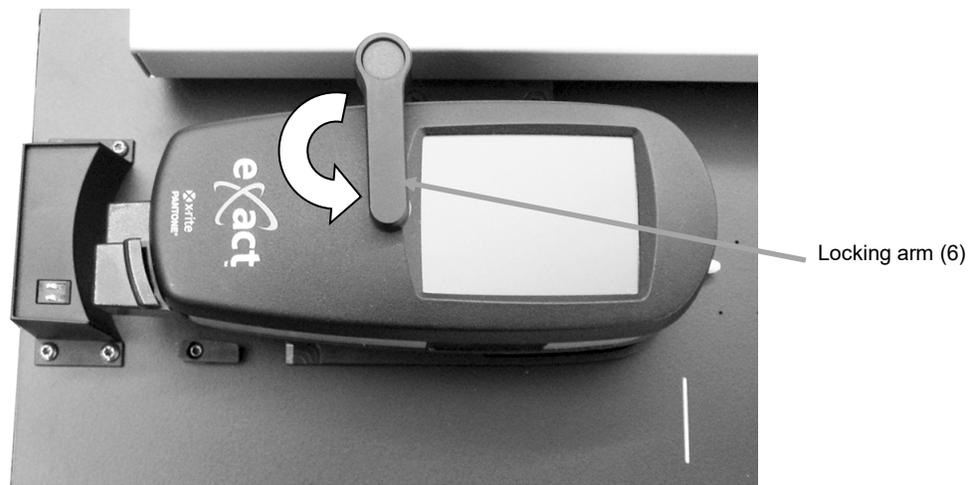
3. Lock the eXact target base (2) against the instrument.
4. Flip the target window (3) back 180° on the bottom of the eXact target base.



5. Move the scanning trolley (4) a few inches from the charging station (5).
6. Position the eXact instrument over the scanning trolley (4) and lower into place.

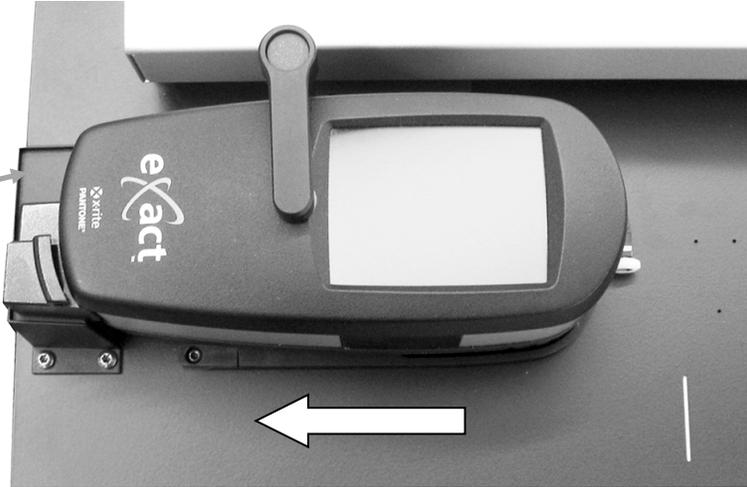


7. Secure the eXact to the scanning trolley by rotating the locking arm (6) counterclockwise until it stops. This holds the instrument in place during scanning.



8. Slide the instrument and scanning trolley against the charging station (5).

Charging station (5)



Operating the System

You should refer to the online help in the software application for procedures on creating and selecting color bars. The following information is provided to familiarize you with the mechanical aspects required when measuring.

Sheet Loading and Alignment

The press sheet can be loaded from the back and passed through the track or from the front to align the color bar. The press sheet is held in place by the supplied magnets or series of vacuum holes if the optional pump is used.

CAUTION: CLASS 1 LASER PRODUCT

1. If not already done, slide the instrument and scanning trolley against the charging station. This will activate the alignment laser.

NOTE: Make sure the laser line is centered on the white dash mark at the end of the scanning trolley. If the laser is not centered, you will need to align the laser before scanning. Refer to the Laser Alignment Procedure in the Appendix.

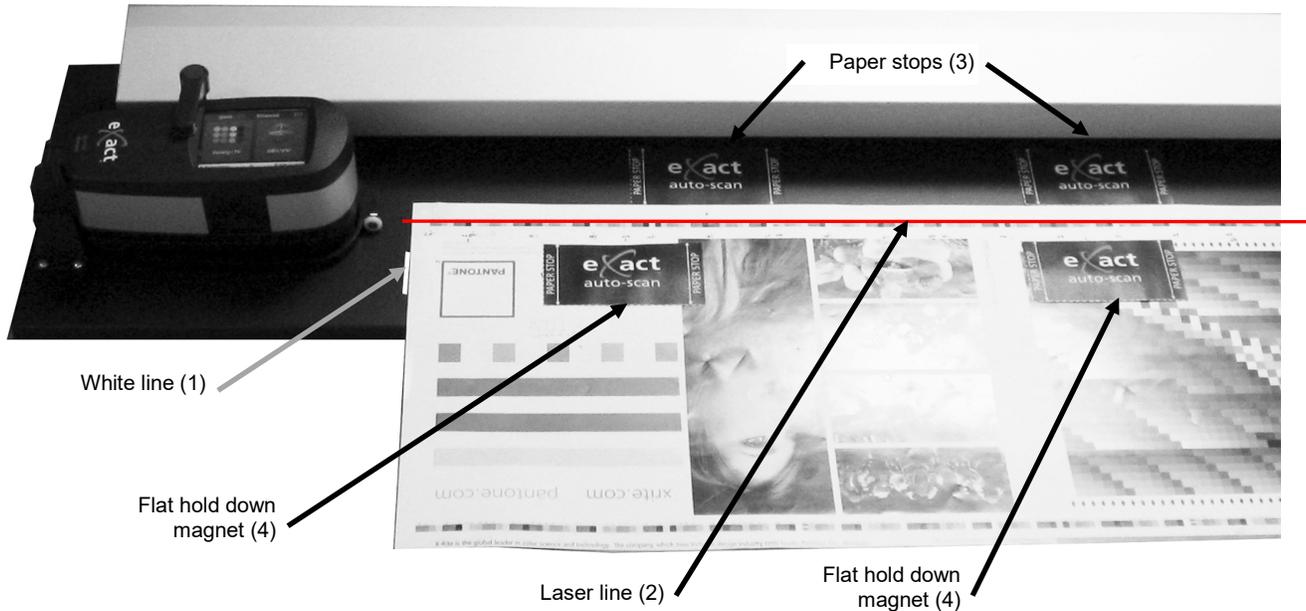


2. Place the edge of the press sheet at the white line (1) in front of the scanning trolley.
3. Manually align the color bar so that the laser line (2) runs down the center of the color bar to be measured.

NOTE: After 30 seconds, the laser line will turn off if a measurement is not started. To reactivate the laser use one of the following methods:

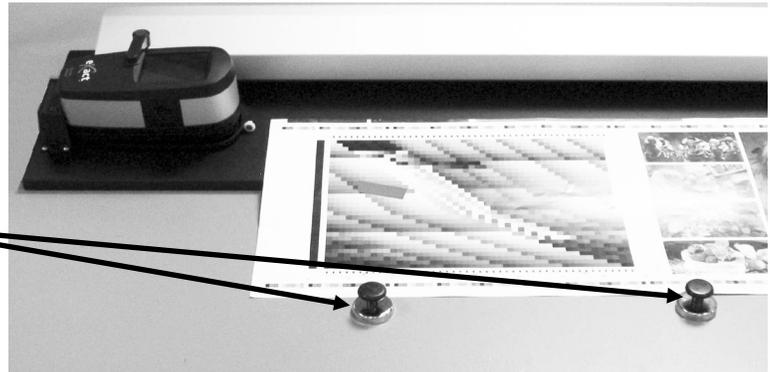
- move the trolley away from the charging station and then return it back to the charging station
 - turn on the laser using the icon in the eXact InkKeyControl software
 - press the Operation button on the eXact-Scan system
 - use the optional foot switch if that is part of your configuration
4. If required, locate paper stop/flat hold down magnets (3) at the top edge of the press sheet to help with the alignment of additional sheets. Refer to the next page for additional paper stop alignment option.

5. **For systems that do not use a vacuum pump:** Position the paper stop/flat hold down magnets (4) over the sheet along the bottom edge of the track.



Handled Paper Stop Option: You can also position the handled paper stops (5) along the bottom edge of the sheet for alignment if your system is located on a metal table/console.

Handled paper stop magnets (5)



Measuring a Color Bar

The following instructions describe the procedures required to measure a color bar.

Caution: Moving parts – please keep hands clear when the scanning trolley is in motion.

1. Make sure the press sheet is properly aligned as previously explained.
2. Open a job from the software application.
3. Select the **Measure** option in the software or press the **Operation** button on the eXact Auto-Scan system to start the measurement. You can also press the optional Foot switch to start a measurement.

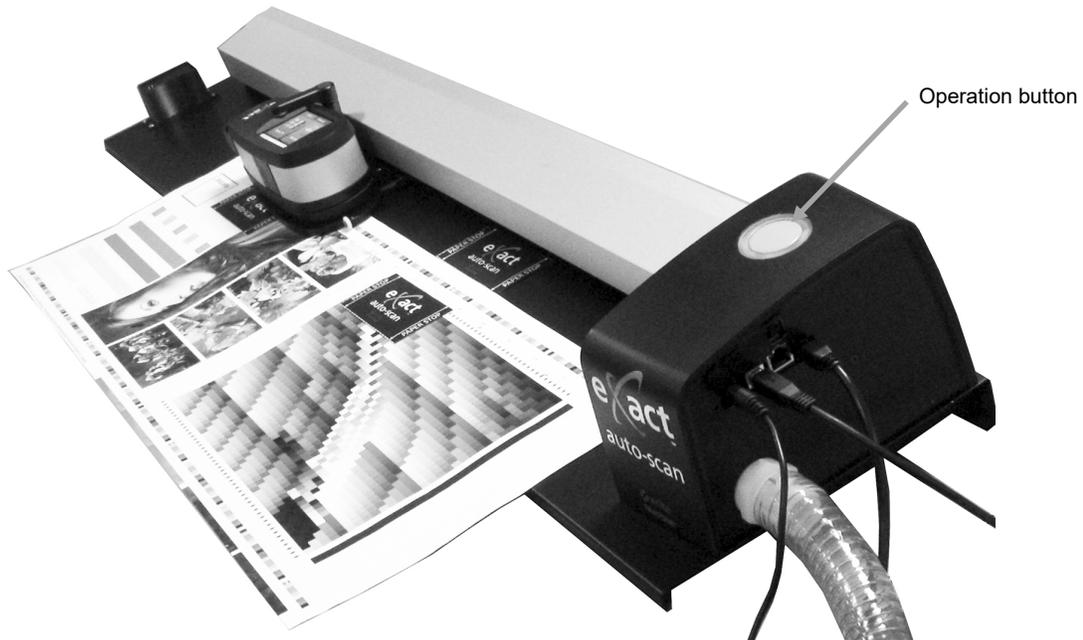
IMPORTANT:

The first press of the Operation button or Foot switch will turn on the laser. If the laser is already on, the next press of the Operation button or Foot switch will start a measurement.

Once the measurement has been initiated, the laser turns off, the vacuum pump activates (if the optional vacuum pump is used) and the “green” light on the eXact Auto-Scan system changes to

“solid orange”, indicating a scan is in progress. After the color bar is scanned, measurement results are reported to the computer monitor.

You can abort a measurement by pressing the Operation button or optional Foot switch when the instrument is scanning the color bar.



Performing a Spot Color Measurement

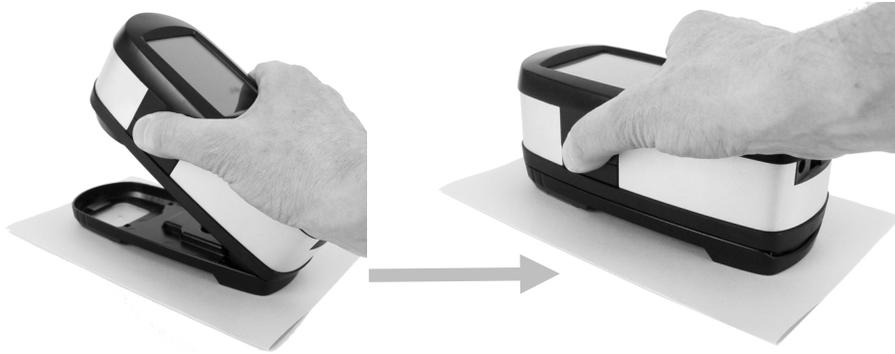
The instrument can be used to measure ink colors and make spot check measurements as needed. The target base of the instrument should rest flat and steady on the sample area.

The following instructions describe the procedures required to perform a spot measurement with the eXact instrument.

1. Remove the eXact instrument from the scanning trolley.
2. Flip the target window 180° on the bottom of the eXact target base back to the spot measurement position.



3. Position the target window over the sample to measure. The opening should be completely filled with the sample color.
4. Press the instrument firmly to the target base. Measuring appears in the display.
5. Hold steady until “Complete!” is displayed. Measurement results are reported to the computer monitor.
6. If the instrument is moved during measurement or is not held closed for the entire measurement, no data will display on the computer monitor. Simply take another measurement if this occurs.



7. When finished, flip the target window back to the scan position and reattach the instrument to the scanning trolley.

Calibration

IMPORTANT: The calibration plaque is dramatically affected by smudge marks and dust, and must be kept clean. It is recommended that the instrument is cleaned regularly. Refer to the cleaning procedure in the Appendix.

1. When prompted for a calibration, remove the eXact instrument from the scanning trolley if required.
2. Open the instrument (not locked) and tap the START button on the eXact screen. The instrument will display a countdown screen and then perform the calibration.

Appendices

Service Information

The eXact Auto-Scan is covered by a one-year limited warranty and should be referred to an authorized service center for repairs within the warranty period.

X-Rite provides repair service to their customers. Because of the complexity of the circuitry, all repairs should be referred to an authorized service center.

X-Rite will repair any instrument past warranty. The customer shall pay shipping and repair cost to the authorized service center. The instrument shall be submitted in the original carton, as a complete unaltered unit along with all the supplied accessories.

Troubleshooting

Prior to contacting X-Rite's Customer Service for instrument problems, try the applicable solution(s) described below. If the condition persists, contact X-Rite Customer Service by phone at 1-888-826-3059; by fax at 1-888-826-3061; or by email at gisupport@xrite.com. Additional X-Rite office numbers are located on the back cover of this manual. You can also visit X-Rite's Support page at www.xrite.com; here you can find answers to common help desk questions.

Scanning instrument indicator not illuminating:

Ensure that the power supply is plugged in.

Reset the instrument (see eXact Auto-Scan Reset).

Scanning instrument and software not communicating:

Check the USB cable for proper connection.

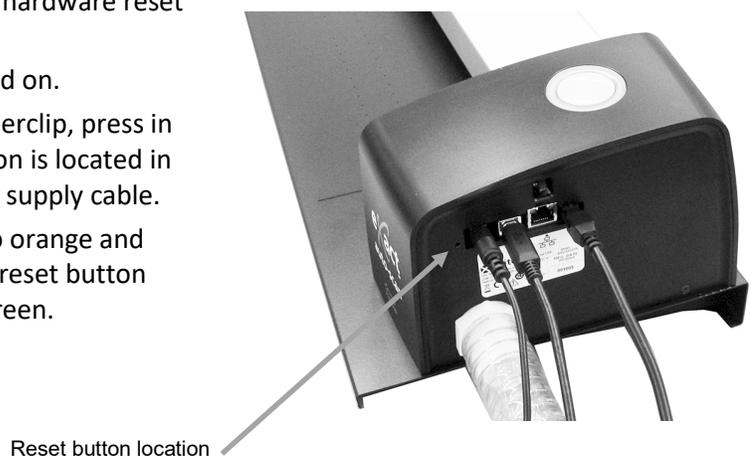
Close the software application, cycle power on the instrument and restart the software application. If this does not work reboot the computer.

Reset the instrument (see eXact Auto-Scan Reset).

eXact Auto-Scan Reset

The following procedure performs a hardware reset on the eXact Auto-Scan system.

1. Make sure the system is powered on.
2. Using a small screwdriver or paperclip, press in the reset button. The reset button is located in the hole to the left of the power supply cable.
3. The indicator light will change to orange and then back to green. Release the reset button when indicator light is back to green.



Cleaning the System

Your system requires very little preventative maintenance to achieve years of reliable operation. However, to protect your investment and maintain reading accuracy, a few simple-cleaning procedures should be performed from time to time.



ATTENTION: A properly grounded wrist strap is recommended when cleaning, removing or installing the scanning head.



Make sure AC power is disconnected from the system before performing any instrument cleaning procedure.

General eXact Auto-Scan Cleaning

The system covers may be wiped clean with a cloth dampened in water or mild cleaner.

DO NOT spray water or cleaning solution directly on the end covers or scanning track.

DO NOT use any solvents or harsh cleaners of any kind.

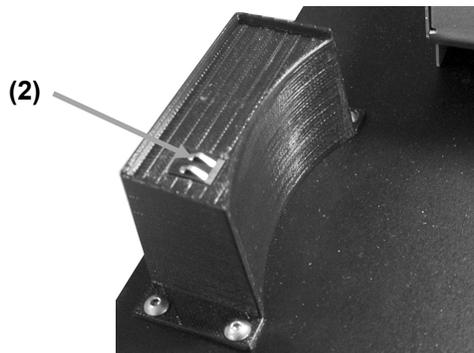
The track should be wiped clean with a lint-free cloth dampened in glass cleaner weekly or more often if needed. When cleaning the track, make sure to clean the entire track. This includes the portion of the track that resides under the eXact instrument trolley when it is in its docked position. You can slide it over when cleaning is required.

System Contacts Cleaning

1. Remove the eXact instrument from the scanning trolley and power it off.
2. Turn the eXact instrument over and wipe the contacts on the charging adapter (1) weekly with a cotton cloth dampened (not wet) in isopropyl alcohol.



3. Make sure power is disconnected from the eXact Auto-Scan system.
4. Wipe the contacts on the eXact charging station (2) weekly with a cotton cloth dampened (not wet) in isopropyl alcohol.



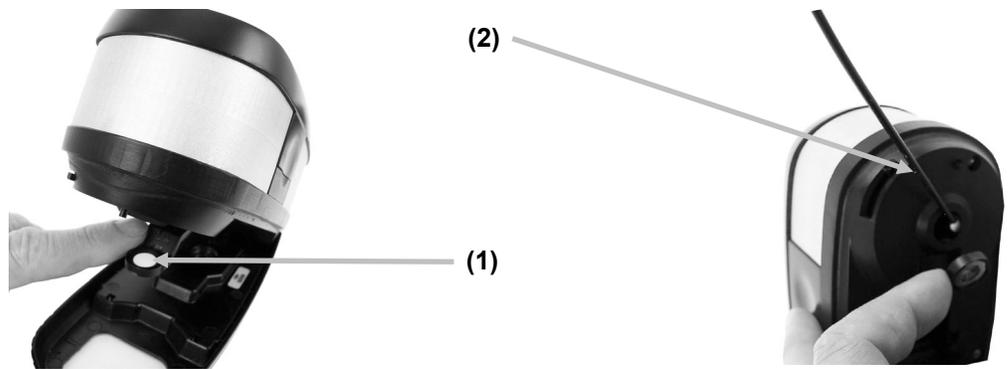
General eXact Cleaning

The exterior of the instrument and touch display should only be wiped clean with a cotton cloth dampened (not wet) in water or isopropyl alcohol.

Cleaning the eXact Optics

The optics should be cleaned once a week in a normal environment. If the instrument is used in a dirty or dusty environment, more frequent cleaning may be required.

1. Remove the instrument from the scanning trolley.
2. Rotate the reference holder (1) towards the back and hold.
3. Blow short bursts of clean, dry air (2) into the measurement port. This should remove any accumulated debris from the optics.
4. Carefully return the calibration holder to its normal position.



IMPORTANT: If can air is used for cleaning, do not invert or tilt the can during use. This could cause damage to the optics.

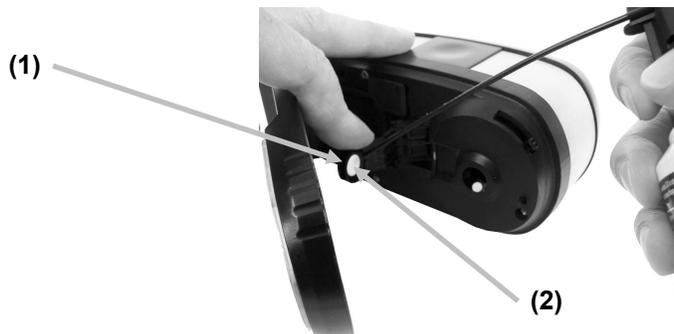
Cleaning the eXact Calibration Plaque

The calibration plaque should be cleaned periodically.

Do not use solvents or cleaners of any kind.

The calibration tile is embedded in the underside of the reference holder.

1. Remove the eXact instrument from the scanning trolley and open the target base.
2. Rotate the reference holder (1) towards the back and hold.
3. Blow short bursts of clean, dry air (2) onto the calibration tile. This should remove any accumulated debris.



4. Carefully return the calibration holder to its normal position.

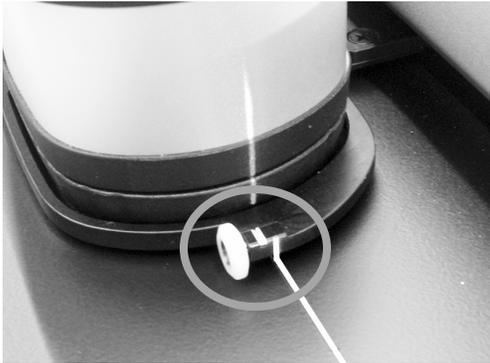
Laser Alignment Procedure

The laser will require alignment if the laser line is not centered on the white dash mark at the end of the scanning trolley. Follow the steps below for the proper alignment procedure.

1. Make sure the instrument and scanning trolley are pushed up against the charging station to activate the laser line.
2. View the location of the laser line at the front of the scanning trolley.

Laser line not properly aligned

Incorrect back alignment



Incorrect front alignment



3. If the laser line is to the back of the white dash mark, rotate the alignment wheel adjustment upward to center the laser line on the white dash mark.
If the laser line is to the front of the white dash mark, rotate the alignment wheel adjustment downward to center the laser line on the white dash mark.

Laser line adjustment wheel



Laser line properly aligned

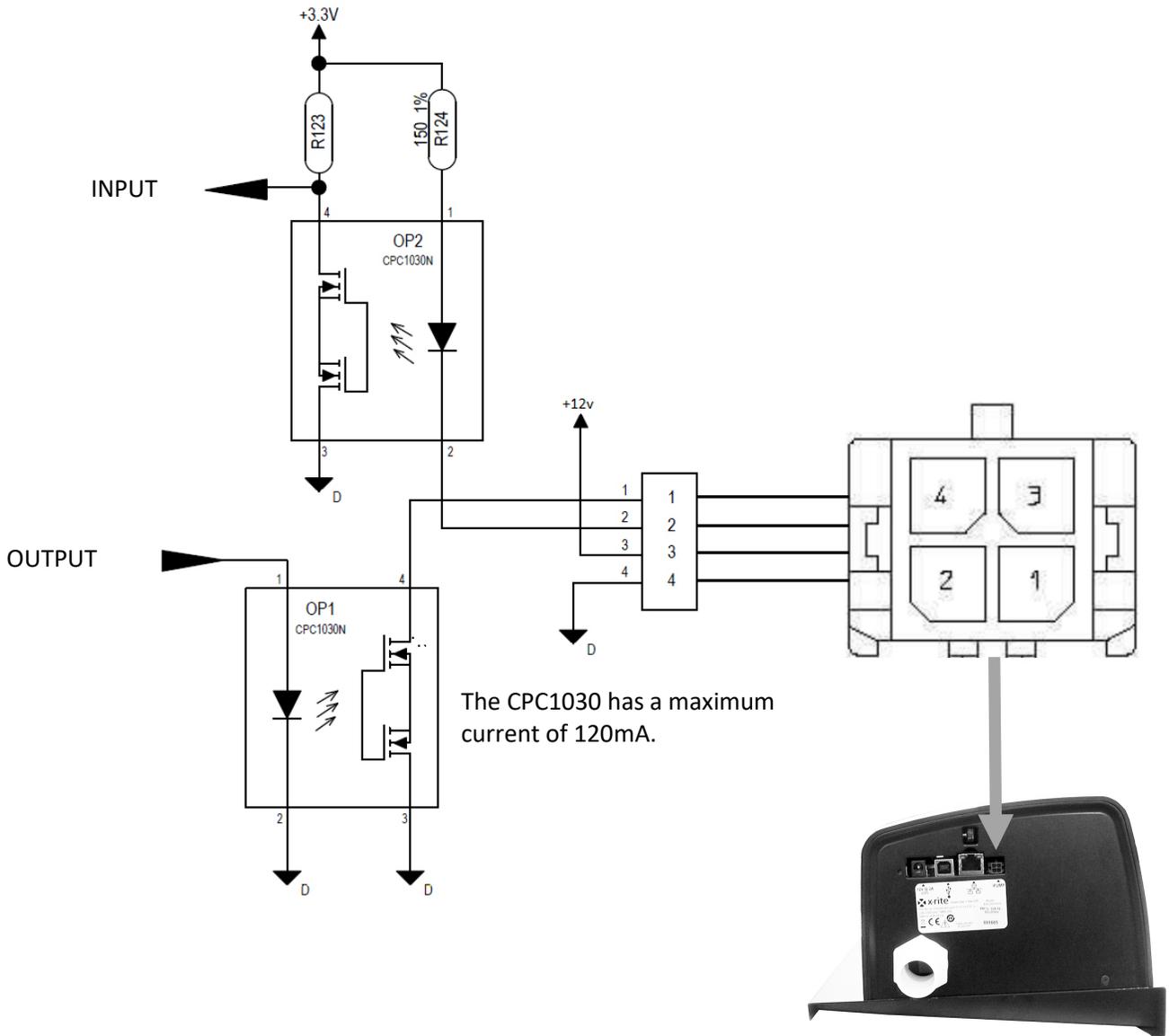


eXact Auto-Scan Specifications

Measurement System	Spectral Analyzer	DRS spectral engine
	Spectral Range	400 nm – 700 nm with 10 nm interval
	Measurement Geometry	45°/0° ring illumination optics, ISO 5-4:2009(E)
	Light Source	Gas filled tungsten (illuminant type A) and UV LED
	Measurement Conditions	M0, M1 (method 1 and method 2), M2, M3* (all according to ISO 13655:2009) *M3 option not available for Xp models
	Calibration	On integrated white reference
	Inter-instrument agreement	Average: 0.25 ΔE^*ab , Max: 0.45 ΔE^*ab (M3 0.55 ΔE^*ab) (Measurements using X-Rite manufacturing standards at a temperature of 23°C +/- 1°C, 40-60% RH for all measurement modes on 12 BCRA color tiles and a white ceramic reference (D50, 2°))
	Short term repeatability - White	0.05 ΔE^*ab , (standard deviation) White BCRA (Error compared to mean value of 10 measurements every 5 seconds)
	Short term repeatability - Density	+/-0.01 D for CMYK measurements
	Data Interface	Bluetooth
Scan System	Track Lengths	29"/74 cm, 40"/102 cm
	Min. Patch Size (Strip Height)	3.0 mm (with 1.5 mm aperture) 4.0 mm (with 2 mm aperture)
	Scan Speed	1.5 mm aperture on 4 mm patches: >= 160 mm (7")/sec.
	Data Port	USB, Ethernet
eXact InkKeyControl Software	Colors	Up to 16 colors
	Print Standard Support	G7, PSO, Japan Color ISO 12647-2
	Density Functions	Density, TVI (incl. SCTV), Trapping, Contrast, Gray Balance
	Colorimetric Functions	CIE L*a*b*, CIE L*C*h°
	dE methods	dE*76, dE*94, dE*00
	Special Functions	BestMatch
	Density White Base	Absolute, Paper
	Pantone Color Libraries	Included
PantoneLIVE Support	Optional	
Environmental	Operating Temp:	+10° (50°F) to +35°C (95°F)
	Humidity Range:	0 - 85% RH non-condensing
	Storage Temp:	-20°C to +50°C
	Usage:	Indoor only
	Altitude:	2000m
	Pollution Degree:	2
	Overvoltage:	Category II
	Power Supply:	X-Rite P/N SE30-277, 100-240VAC 50/60Hz, 12VDC @ 2.5A
	Vacuum Pump:	X-Rite P/N: SD07-07, 115/230 VAC 60/50 HZ 3.6/1.8 AMPS

Design and specifications subject to change without notice.

eXact Auto-Scan Vacuum/Foot Switch Interface Wiring



Pin	Name	Description
1	Output	External Control Line: provides up to 120mA current sink during measurement sequence.
2	Input	External Trigger Line: turns on laser when pulled to ground, if laser is already on a measurement will begin.
3	+12v	Provides +12 VDC, up to 500mA (not fused).
4	GND	DC Ground



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