EasyTrax^m



Setup and Operation



PANTONE[®]

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. Max output power 3 mW - line laser geometry (laser source 3 mm max in line direction 76.8 cm x 1 cm at 1 m distance).



CAN/CSA-C22.2 No. 61010-1

This product has been tested to the requirements of CAN/CSA-C22.2 No. 61010-1, second edition, including Amendment 1.

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).



CAN/CSA-C22.2 No. 61010-1

Ce produit a été testé conformément aux spécifications de la norme CAN/CSA-C22.2 No. 61010-1, deuxième édition, y compris la révision 1.



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

CE Declaration



Hereby, X-Rite, Incorporated, declares that this CTX (EasyTrax) Series 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

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.

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Warranty Information

X-Rite, Incorporated ("X-Rite") warrants each instrument manufactured to be free of defects in material and workmanship for a period of 12 months*. This warranty shall be fulfilled by the repair or replacement, at the option of X-Rite, of any part or parts, free of charge including labor, F.O.B. its factory or authorized service center.

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 NON-INFRINGEMENT. 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.

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Overview and Setup

The EasyTrax[™] scanning instrument is the ideal solution for producing accurate process color jobs and process plus spot color jobs. It is ideal for smaller format color presses or those working in a primarily process color environment.



About this manual

This manual covers the installation, operation and maintenance of the instrument. Use the software online help and software user guide for specific instructions on using the instrument with your software application.

Unpacking and Inspection

After removal, inspect the system 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. Refer to the Appendices for information on repacking the system if required.

Packaging Contents:

- EasyTrax[™] scanning system with hold-down magnets and paper stops
- Power supply (P/N SE30-209) with line cord
- Ethernet cable
- Software
- Getting connected instruction
- Documentation package (manuals, registration form, certificate of calibration)

System Connections

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

- 1. Position the system on the console. Make sure the console is set to no more than a 45° angle.
- 2. Plug one end of the Ethernet crossover cable into the USB to Ethernet adapter, and then plug the adapter into a USB port on your computer.
- 3. Plug the other end of the cable into the Ethernet port (1) on the right side of the system measurement table.
- 4. Plug the input connector from the power supply (2) into the input port located on the right side of the system measurement table.
- 5. Plug the detachable line cord into the power supply and then plug the line cord into the AC wall receptacle.





Operational hazard exists if a power supply other than X-Rite SE30-109 is used.

6. Connect the monitor, keyboard and mouse (if applicable) to the computer according to the instructions supplied with those devices.

Note: The following network parameters have already been configured on X-Rite turnkey systems.

Ethernet Interface Connection – system default standalone configuration

The hardware default IP address is as follows:

IP Address: 172.16.1.100

SubNet Mask: 255.255.0.0

Default Gateway: 172.16.1.1

To use the system as a standalone configuration you must set the computers TCP/IP to the following:

IP Address: 172.16.1.1

SubNet Mask: 255.255.0.0

The Default Gateway should NOT be set

X-Rite Scanning Solution Software

System Requirements

- 3 GHz processor
- 1 GB RAM minimum, 2 GB recommended
- Microsoft[®] Windows 2000 Professional SP4, Windows XP Professional SP2, Windows Vista Ultimate 32-bit, or Windows 7 Ultimate 32-bit
- 40 GB or more free disk space
- 15" monitor with 1024 x 768 resolution minimum,
 17" touch-screen monitor with 1280 x 1024 resolution recommended
- Network card

Installing the Software

Note: Shut down the Windows firewall and any anti-virus software you may be running.

The software uses a standard Windows installation procedure.

- 1. Insert the EasyTrax software flash drive into the USB port. If EasyTrax 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 though the rest of the installation process. Follow the instructions on each setup screen to complete the installation. You can find the software "AUI" number located on the sleeve.
- 3. Refer to the software online help system and software user guide for information on operation of the software.

Note: The software 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.

Instrument Indicator LED

The instrument Indicator LED conveys a variety of system conditions. Below is a description of each color condition for the LED.

- Solid Green indicates that the read head is at the home position and ready for use
- Solid Orange indicates that the read head is away from the home position
- Solid Red indicates that the instrument hardware is not ready and a problem may exist with the system
- Flashing Green indicates that the instrument is taking a reading, status OK
- Flashing Orange indicates that the instrument is performing a calibration
- *Flashing Red* indicates that the network is not ready

Read Head Reticule Positioning

The optics which is located under the read head requires the use of the reticule for proper setup and spot measurement positioning. The reticule is located at the front of the read head.

To properly position the reticule for a color bar or spot measurement, look down through the upper sights to the reticule. The reticule is properly positioned when the tips of the reticule and tips of the upper sights are aligned with each other (horizontal plane) in the center of the patch or spot, and the reticule is centered between both upper sights (vertical plane).



Initial Setup

Initial setup is required the very first time the system is used. The setup includes a manual color bar alignment and a laser alignment.

Manual Color Bar Alignment

- 1. Position the paper stop alignment tabs in the available slots at the bottom edge of the table to accommodate the sheet size.
- 2. Adjust the paper stop alignment tab so that the center point lines up with the middle hash mark at the base of the paper stop.



- 3. Place a press sheet within the instrument's measurable area between the sheet edge indicators.
- 4. Center the read head reticule over the first patch of the color bar that is closest to the home position as previously explained. This is accomplished by, compressing and holding the two locking tabs located on both sides of the read head. This causes the read head to lift slightly off of the table and frees it for up/down (vertical direction) movement.

Locking tab



Locking tab

Read head reticule positioned over 1st patch

- 5. Position a magnet on the left and right edges of the press sheet to hold it in place on the table.
- 6. Move the read head across the color bar without changing the up/down position (vertical position). Remove the paper holding magnets and slide the paper stop alignment tab on the far end of the sheet left or right until the final patch lines up under the reticule.



7. Return the read head to home position and verify that the color bar is aligned with the reticule during the return trip.

Laser Alignment

CAUTION: CLASS 1 LASER PRODUCT

- 1. Manually align the color bar following the Manual Color Bar Alignment procedure discussed earlier.
- 2. Position the read head reticule over the first patch on the color bar as previously explained.
- 3. Launch the Press Tool application and turn on the laser line by pressing the Laser button on the read head (the laser automatically turns off after 30 seconds).
 - If the laser line is not centered down the length of the color bar, continue with step 4.
 - If the laser line is centered down the length of the color bar, press the Laser button again to turn it off. The alignment procedure is not required. You are now ready to perform color bar measurements.



Laser line along color bar

4. Note: Only continue with these steps if an alignment is required. If the laser was not aligned, remove the supplied 1.5 mm hex key from its storage compartment at the back of the vertical arm.



5. Adjust the location of the laser line by turning the adjustment screws clockwise or counterclockwise. Adjust the screws until the laser line is centered down the length of the color bar. Refer to the illustrations that follow to find the correct adjustment procedure for your laser.



6. When finished with alignment, press the laser button to turn off the laser.

• Laser line is above the color bar

Turn both adjustment screws in the counterclockwise direction to move the laser line down onto the color bar.



• Laser line is below the color bar

Turn both adjustment screws in the clockwise direction to move the laser line up onto the color bar.



• Near side of the laser line is above the color bar

Turn the front adjustment screw in the counterclockwise direction to move the near side of the laser line down onto the color bar.



• Near side of the laser line is below the color bar

Turn the front adjustment screw in the clockwise direction to move the near side of the laser line up onto the color bar.



• Far end of the laser line is above the color bar

Turn the back adjustment screw in the clockwise direction to move the far end of the laser line down onto the color bar.



• Far end of the laser line is below the color bar Turn the back adjustment screw in the counterclockwise direction to move the far end of the laser line up onto the color bar.



Operation

You should refer to the online help in the software application for procedures on creating and selecting color bars and jobs. The following instructions describe the procedures required to measure a color bar and spot color.

Caution: Moving parts – please keep hands clear when the read head is in motion.

Note: The operator should have received training appropriate for this system.

Measuring a Color Bar

- 1. Open a job from the Press Tool application.
- 2. Position the press sheet on the table and measure paper for the selected job.
- 3. Move the read head to the home position of the table.
- Press the Laser button on the read head to check for proper alignment of the color bar. Align the sheet as required using the paper stop alignment tabs and then press the Laser button again to turn it off.
- Select the Measure (scan) button in the Press Tool or press the Measure button on the read head to start the measurement.
 Once the measurement has been initiated, the "green" light on the read head changes to "flashing green", indicating a scan is in progress. After the color bar is scanned, measurement results are reported to the computer monitor.

Refer to the software online help or the software quick start guide for additional information. **Note:** You can abort a measurement in progress by pressing the **Measure** button on the read head, or by selecting the **Cancel** (scan) button in the Press Tool.



Measuring a Spot Color

CAUTION: CLASS 1 LASER PRODUCT

1. Select the Measure (spot) button

lin the Press Tool.

- 2. Position the read head reticule over the spot color to measure as previously explained.
- 3. Press the **Measure** button on the read head. The read head moves forward and takes a measurement of the spot. The measurement results are then display in the application.

Calibration

Regular calibration of the system is important for maintaining accurate and consistent measurements. Normally, the software application prompts you for a calibration when it is required. Calibration can also be manually started from the Press Tool screen under the connection icon whenever desired.

Important: The calibration plaque should be cleaned every 30 days or if noticeably dirty to maintain calibration accuracy. Refer to Cleaning the Calibration Plaque in the Cleaning section for the procedure.

1. When prompted by the software, slide open the calibration plaque protective cover at the home position in the table.



2. Position the reticule over the targeting area. Make sure the tips of the reticule are in the center of the targeting circle. The tips of the reticule should also be aligned with the tips of the upper sights when looking down from the top.



- 3. Initiate the calibration procedure in the application. The indicator LED starts to flash orange.
- 4. After the calibration is complete, slide the read head away from the calibration plaque and position the protective cover back in place.

Cleaning the Instrument

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



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

General Cleaning

The read head cover, measurement table surface and vertical arm may be wiped clean with a cloth dampened in water or mild cleaner.

DO NOT spray water or cleaning solution directly on the read head cover, measurement table surface and vertical arm.

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

Lens Cleaning

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

In the course of normal use, spray powder, paper dust, and other airborne contaminants will likely enter the read head's optics. This can eventually reduce the sensitivity of the read head and may lead to calibration or measurement errors. It is recommended that you clean the lens every 30 days or as needed.

1. Release the read head from the locked down position by simultaneously compressing the orange release posts on both sides of the read head.



 Rotate the read head back so that the optics is accessible for cleaning.
 Note: The read head will not stay in place. Make sure you hold it in the upright position. Blow short bursts of clean, dry air into the optical assembly. Ensure that the air nozzle is approximately 10 mm from the optics.



NOTE: Do not shake the can before use or invert the can during use.

- **3.** Lower the read head back to its measurement position and verify that the release posts snap back into position.
- 4. Recalibrate the instrument by following the calibration procedure accessible from the Press Tool screen under the connection icon.

Cleaning the Calibration Plaque

It is recommended that you clean the calibration plaque every 30 days or when noticeably dirty. This is a relatively easy procedure requiring only a few minutes of time.

- 1. Slide open the calibration plaque protective cover at the home position in the table.
- 2. Clean the white calibration plaque with a cotton swab or lint free cloth.
- 3. After cleaning is complete, slide the protective cover back in place.



Cleaning the Rollers

It is recommended that you clean the rollers if they are noticeably dirty.

1. Release the read head from the locked down position by simultaneously compressing the "orange" release posts on both sides of the read head.



- Rotate the read head back so that the rollers are accessible for cleaning.
 Note: The read head will not stay in place. Make sure you hold it in the upright position.
- 3. Wipe the rollers clean with a lint-free cloth dampened in water or mild cleaner.



4. Lower the read head back to the measurement position and verify that the release posts snap back into position.

Appendices

Service Information

X-Rite provides repair service to their customers. Because of the complexity of the circuitry, all warranty and non warranty repairs should be referred to an authorized service center. For non warranty repairs, the customer shall pay shipping and repair cost to the authorized service center, and the instrument shall be submitted in the original carton, as a complete unaltered unit, along with all the supplied accessories.

X-Rite, Incorporated has offices around the world. You can contact us using one of the following methods:

- To identify the X-Rite service center nearest you, please visit our web site at <u>www.xrite.com</u> and click the **Contact Us** link.
- For online help, visit our web site <u>www.xrite.com</u> and click the **Support** link. Here you can search for software or firmware updates, white papers, or frequently asked questions which can quickly resolve many common user problems.
- Send an e-mail to Technical Support <u>gisupport@xrite.com</u> detailing your problem and listing your contact information.
- For sales questions or to order cables and accessories, visit our web site <u>www.xrite.com</u> or contact your nearest X-Rite dealer or service center.
- Problems and questions can also be faxed to your local X-Rite office listed on our web site. You may also contact X-Rite using one of the numbers listed on the back page of this manual.

Troubleshooting

Prior to contacting X-Rite support department for instrument problems, try the applicable solution(s) described below. If the condition persists, contact us using one of the methods listed in the Service Information section.

Scanning instrument indicator LED not illuminating:

- Ensure that the power supply is plugged in.
- Reset the instrument by unplugging the AC adapter waiting 10 seconds and plugging the adapter back in.

Scanning instrument indicator is solid red:

- Reset the instrument by unplugging the AC adapter waiting 10 seconds and plugging the adapter back in.
- An error or problem exists with the system, contact Technical support.

Scanning instrument and software not communicating:

- Check Ethernet cable for proper connection.
- Close the software application, turn power off then on for the instrument, and restart the software application. If this does not work reboot the computer.
- If system is networked, contact your network administrator for possible Ethernet issues.
- An error or problem exists with the system, contact Technical support.

Scanning instrument calibration fails:

- Ensure that the calibration plaque and instrument optics are clean (see Cleaning the Instrument).
- Close and restart the software application.

Reset the instrument by unplugging the AC adapter waiting 10 seconds and plugging the ٠ adapter back in.

Calibration Plague Replacement

Read Head Replacement



IMPORTANT: These replacement procedures require handling and contact with electrostatic sensitive parts. Care should be taken when installing these parts into your system.

NOTE: You must have EasyTrax ver. 1.1 or greater installed to have access to the replacement instructions. The instructions are located within the Instrument Utility application. If you do not have version 1.1 or greater installed, go to the Support page at www.xrite.com for a software download. If you are using a 3rd party software solution with EasyTrax hardware, either look for the Instrument Utility Icon on your computer or contact your provider for more details.

- 1. Make sure AC power is connected to the EasyTrax scanning system.
- 2. Click the Instrument Utility application icon in the EasyTrax Launcher screen and enter a password if required.
- 3. Click the **Connect** button at the top of the Instrument Utility window and then select the Utilities tab page.
- 4. Click the desired replacement procedure button at the bottom and follow the step-by-step instructions.

Technical Specifications

Press Console Sizes:	20" (51 cm), 26" (66 cm), 29" (74 cm), 32" (81 cm), 40" (102 cm)
Scanning Area:	Up to 40" (102 cm)
Scanning Speed:	150 mm / sec. for 5 mm x 5 mm patches
Patch Size (min):	3.8 mm x 4 mm
Color Bar:	Comes with pre-defined color bars or use custom color bar with the advanced Editors
Density Repeatability:	Black density \pm 0.02D @ 1.5D White density \pm 0.01D
Spectral Repeatability:	0.20 dE00 on white tile
Density Range:	0 – 2.5D
Spectral Range:	400nm – 700nm
Reflectance Range:	0 – 150% Reflectance
Density Accuracy:	± 0.02D at 1.5D
Density Status:	E/T
Colors Supported:	Up to 8 colors
Inter-instrument Agreement:	0.5 dE00 Average, 1.0 dE00 Max.
Illumination:	Gas pressure lamp
Polarization:	Polarized head reads polarized density and un-polarized color.
Paper Thickness:	0.1 mm Min., 1.5 mm Max.
Communication Port:	Ethernet
External Power Supply Input Requirement:	100-240VAC, 50/60Hz 0.8A LPS
Instrument Power Required:	24VDC @ 1.2 A

Environmental

Operating Temp:	+10°C (50°F) to +40°C (104°F), 85% RH non-condensing
Storage Temp:	-40°C (-40°F) to +70°C (158°F)
Usage:	Indoor Only
Altitude:	2000m
Pollution Degree:	2
Transient Overvoltage:	Category II

Design and specifications subject to change without notice.

System Repacking Instructions

Refer to the following instruction to repack your system in the event shipment is required. If the original carton and supports are not available, contact X-Rite to have a replacement shipped to your location.

 Position the bottom shipping supports labeled #1 through #6 around the inside of the bottom shipping box. Make sure to include all accessories that were originally shipped. Note: The small EasyTrax system does not include the #2 and #5 supports.



2. Using two people, carefully insert the system into the shipping carton with the vertical bar at the #1 and #4 support end of the carton. Position the vertical arm forward approximately 2" from the left edge of the table so that the end of the arm rests in the channel of the bottom support #1. Position the read head approximately 2" from the top edge of the table so that it is secured in place when the top support is installed.



- 3. Carefully slide the shipping insert under the read head.
- 4. Cover the system with plastic if available.
- 5. Position the top shipping supports labeled #1 through #6 around the EasyTrax system as shown. Top supports #1/ #6, #2/#5, and #3/#4 are interchangeable.
 Note: The small EasyTrax system does not include the #2 and #5 supports.



6. Place the top of the shipping box on the bottom and tape close.



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