



chemiPRO XS Safety and Quick Start Guide



NOTICE TO USERS

All possible care has been taken in the preparation of this User Guide, but Cleaver Scientific Limited accepts no liability for any inaccuracies that may be found.

Cleaver Scientific Limited reserves the right to make changes without notice both to this publication and to the product that it describes.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means electronic, mechanical, photocopying, recording or otherwise without the prior permission of the copyright owner.

Published by Cleaver Scientific Limited.

Contents Page

SAFETY INSTRUCTIONS	4
SAFETY PRACTICES	4
WARNING NOTICES	4
PRECAUTIONS	4
SYMBOLS.....	5
WARNING LABELS	6
UV SAFETY WARNING	6
GENERAL OPERATING CONDITIONS.....	7
TRANSPORTATION AND STORAGE CONDITIONS	7
ENVIRONMENTAL CONDITIONS.....	8
ELECTRICAL SAFETY.....	8
ELECTRICAL PROTECTION	9
ELECTRICAL SPECIFICATIONS	10
CHANGING FUSES.....	10
EMC COMPLIANCE.....	11
INTRODUCTION	12
UNPACKING YOUR CHEMIPRO XS.....	12
CHEMIPRO XS OVERVIEW	14
APPLICATIONS SUPPORTED	15
HARDWARE	16
SYSTEM COMPONENTS.....	17
ACCESSORIES.....	18
GENEPIX SOFTWARE	20
SOFTWARE INSTALLATION	20
INSTALLATION	25
INSTALLATION	25
TRANSILLUMINATOR SET-UP	25
POWER ON/OFF.....	25
INSTALLING GENEQUANT ON A SEPARATE PC	25
TROUBLESHOOTING AND CONTACT INFORMATION	26
TROUBLESHOOTING	26
CONTACT CLEAVER SCIENTIFIC.....	26
LOOKING AFTER YOUR CHEMIPRO XS SYSTEM	26
DISPOSING OF YOUR IMAGING SYSTEM.....	28
THE WEEE DIRECTIVE	28

SAFETY INSTRUCTIONS

Safety Practices

This document describes the general safety practices and precautions that must be observed when operating a ChemiPRO XS system.

This advice is intended to supplement, not supersede, the normal safety codes in the user's country. The information provided does not cover every safety procedure that should be followed. Ultimately, maintenance of a safe laboratory environment is the responsibility of the user and the user's organization.

Please consult all documentation supplied with the chemiPRO XS before you start working with the instrument. Carefully read the safety information in this document and in the other documentation supplied. When setting up the instrument or performing analyses or maintenance procedures, strictly follow the instructions provided.

Warning notices

 <p>WARNING</p>	<p>We use 'Warnings' to highlight information or instructions that MUST be followed to avoid personal injury to yourself or other people in the vicinity.</p> <p>For example: Switch off the mains voltage and remove the mains cord before cleaning.</p>
--	---

 <p>WARNING</p>	<p>Ensure that all instrument operators read and understand the precautions listed below.</p> <p>You are advised to post a copy of the precautions near or on the instrument shelf.</p>
---	---

Precautions

The following precautions must be observed when using the chemiPRO XS.

- Be sure that the voltage of the chemiPRO XS corresponds to the voltage used in your laboratory.
- Never remove the rear panel of the chemiPRO XS without shutting down the instrument and disconnecting the instrument power cord from line power.
- The power cord must be an appropriately rated and approved cord-set in accordance with the regulations of the country it is used in.
- Do not replace the power cord with one of inadequate rating.

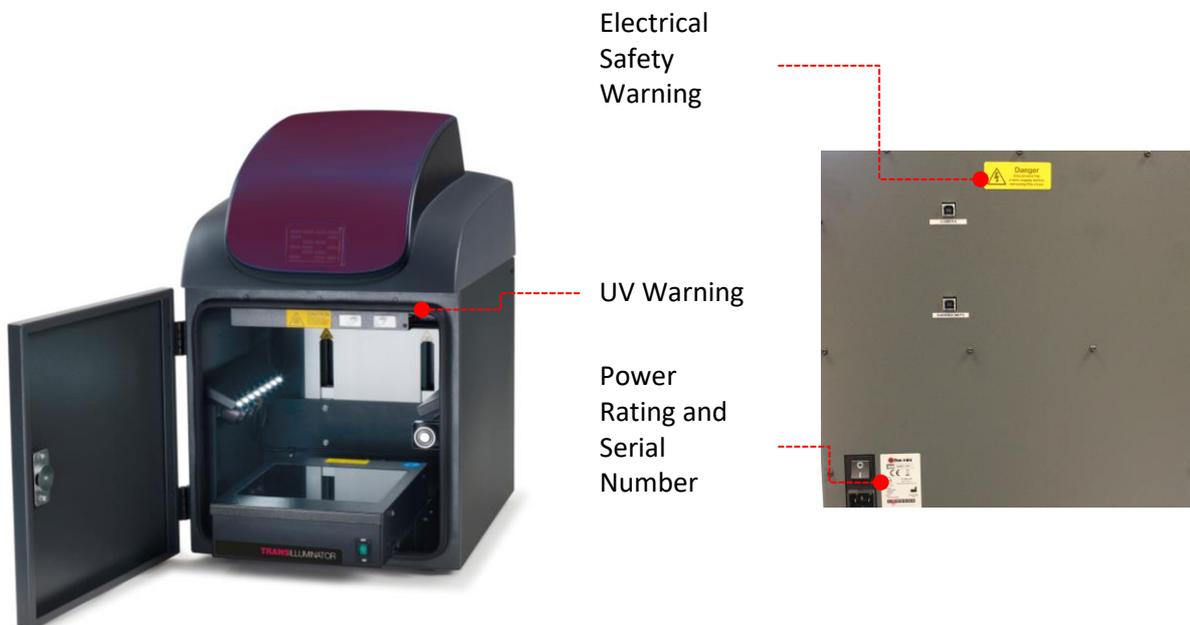
Symbols

Symbol	Definition
	Attention: See instructions for use.
	Attention: Use of UV lights. Please Read UV Safety Warning.
	Attention: Danger of electric shock.
	Attention: Danger of trapped/crushed fingers. Keep fingers clear of moving parts.
	Serial Number.
	Symbol indicating "Not for general waste." For European Union (EU) States, this symbol should be used to mark devices that are reusable and not contaminated at the end of the device life.
	This symbol is a mandatory marking for devices entering the European market to indicate conformity with the essential health and safety requirements set out in European Directives.
	Symbol for "Manufacturer." This symbol shall be adjacent to the name and address of the manufacturer.
	Symbol for "temperature limitation." The upper and lower temperature limits will be indicated on either side of the symbol.
	Symbol used to indicate that the product should be kept dry.
	Symbol indicating that the device is "fragile" and should be handled with care.

	<p>Symbol indicating the correct upright position of the transport package.</p>
	<p>Warning labels attached to the instrument draw your attention to specific hazards. You must refer to this user guide and other documentation provided with your system for more details concerning the potential hazard and any precautions or other actions that must be taken.</p>

Warning Labels

The following labels are displayed on the outer surfaces of the instrument:



UV Safety Warning

The chemiPRO XS system has a UV Transilluminator. If you open the door during the image capture process the system will automatically switch the UV off. If you wish to override the UV Safety, open the darkroom door, turn on the UV Transilluminator within GenePIX, and pull the right hand door switch out and then follow the on screen instructions.



To override the UV Safety interlock, pull the right hand door switch and then follow the on-screen instructions.

Before you override the UV safety interlock, read the following recommendations:

	<p>You should wear appropriate personal protection. As a minimum, we recommend the use of full-face shields that meet the necessary levels of UV protection. Those meeting the standard will be marked with the ANSI Z87.1. notation [ANSI Z87.1-89, Practice for Occupational and Educational Eye and Face Protection, IBR approved for 29CFR1910.133(b)(1)].</p> <p>We recommend that all users of UV be made familiar with the guidelines published by the various national authorities. In the USA these guidelines are published by OSHA (www.osha.gov) in their standard 29CFR1910. This provides up to date safety information and guidance. In the UK the NRPB (www.nrpb.org) issues similar guidelines. Employers must familiarise themselves with these guidelines and their obligations described in the standards.</p> <p>In addition to face shields, we recommend that you should consider wearing appropriate clothing to protect potential exposure to areas of skin (face, arms, and hands for example).</p>
---	---

N.B. The door safety interlock is reset when you close the door

General operating conditions

The chemiPRO XS has been designed and tested in accordance with the safety requirements of the International Electrotechnical Commission (IEC). The chemiPRO XS conforms to IEC61010-1 (Safety Requirements for electrical equipment for measurement, control and laboratory use) as it applies to IEC Class 1 (earthed) appliances, and therefore meets the requirements of EC directive 2014/35/EU.

If possible, avoid any adjustment, maintenance or repair to the instrument while it is open and operative. However, if any adjustment, maintenance or repair is necessary while the instrument is open, this **must** be done by a **skilled** person who is aware of the **hazards** involved.

Whenever circumstances arise that mean your chemiPRO XS may be unsafe, make it inoperative. In particular, a chemiPRO XS may be unsafe if it:

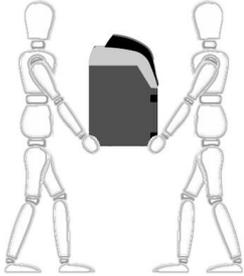
- Shows visible damage.
- Fails to perform the intended measurement.
- Has been subjected to severe transport stresses.
- Has been subjected to prolonged storage in unfavourable conditions.

Transportation and Storage Conditions

The system should only be transported and stored in its original packaging to ensure maximum protection. It is recommended to keep the original packaging.

The unit should be transported and stored in an environment -10°C to +50°C, not condensing.

If you must move the imaging system any great distance please contact your local distributor to advise you about moving your system.

	<p>The chemiPRO XS instrument requires two people to lift it safely.</p> <p>The chemiPRO XS weighs 42kg.</p> 
---	--

Environmental conditions

The instrument should only be used under the following conditions:

- Indoors.
- Altitudes below 2000m.
- Ambient temperature between 5°C and 40°C.
- Relative humidity below 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C.
- Electrical supply fluctuations not exceeding $\pm 10\%$ of the nominal voltage.

	<p>The protection provided by the equipment may be impaired if the operating conditions do not lie within these parameters.</p>
---	---

Electrical safety

The ChemiPRO XS has been designed to protect the operator from potential electrical hazards. This section describes some recommended electrical safety practices.

	<p>Lethal voltages are present at certain points within the instrument.</p> <p>When the instrument is connected to line power, removing the instrument covers is likely to expose live parts.</p> <p>Even when the power switch is set to off, high voltages can still be present – capacitors within the instrument may still be charged even if the instrument has been disconnected from all voltage sources.</p>
---	---

The ChemiPRO XS must be correctly connected to a suitable electrical supply. The supply must have a correctly installed protective conductor (earth ground) and must be installed or checked by a qualified electrician before connecting the instrument.

 <p>WARNING</p>	<p>Any interruption of the protective conductor (earth ground) inside or outside the instrument, or disconnection of the protective conductor terminal is likely to make the instrument dangerous.</p> <p>Intentional interruption of the protective conductor is prohibited.</p>
---	---

 <p>WARNING</p>	<p>Ensure that the electricity supply inlets on the instrument are not obstructed, i.e. leave a gap to allow easy disconnection from the electricity supply.</p>
---	--

When working with the ChemiPRO XS:

- Connect the instrument to a correctly installed line power outlet that has a protective conductor connection (earth ground).
- Do not operate the instrument with any covers or internal parts removed.
- Do not attempt to make internal adjustments or replacements except as directed in the manuals.
- Disconnect the instrument from all voltage sources before opening it for any adjustment, replacement, maintenance or repair. If the opened instrument must be operated for further adjustment, maintenance or repair, this must **only** be done by your supplier's Service Engineer.
- Whenever it is possible that the instrument is no longer electrically safe for use, make the instrument inoperative and secure it against any unauthorised or unintentional operation. The electrical safety of the instrument is likely to be impaired if, for example, the instrument:
 - Shows visible damage.
 - Has been subjected to prolonged storage in unfavourable conditions.
 - Has been subjected to severe stress during transportation.

Electrical protection

- Insulation: Class I rating for external circuits. Only connect equipment that meets the requirements of IEC 61010-1, IEC 60950 or equivalent standards.
- Installation Category: The instruments are able to withstand transient over voltages typically present on the MAINS supply. The normal level of transient over voltages is impulse withstand (overvoltage) category II of IEC 60364-4-443.

- Pollution Degree 2: Normally only non-conductive pollution occurs. Occasionally, however, temporary conductivity caused by condensation must be expected.

Electrical Specifications

The chemiPRO XS power rating will be one of the following dependent upon your region:

Voltage	100-115Vac	220-240Vac
Frequency	50-60Hz	50-60Hz
Current	2A-3A	2A-3A
Fuse	2 of 20 mm x 5 mm IEC127 T 6.3 A H 250V	

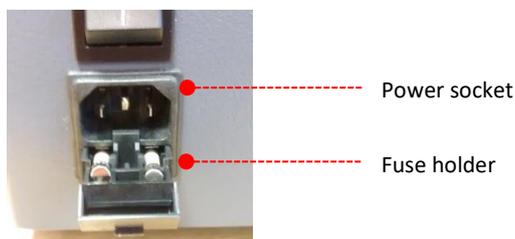
Please check the rating on the rear of the instrument.

Changing fuses

There are two sets of fuses that you may need to replace: the first set is located near the electrical power cord socket on the rear of the darkroom; the second set is located on the rear of the UV Transilluminator inside the darkroom (if supplied).

To change the fuses on the rear of the darkroom:

- Switch off the darkroom and remove the line power cord from the electrical supply.
- Gently pull out the fuse holder on the rear of the darkroom:



- Replace the fuse(s) with new ones of the same type and rating. The fuse type is 20 mm x 5 mm IEC127 T 6.3 A H 250V for instruments in all countries.
- Replace the fuse holder.

Note: It is recommended to always replace both fuses at the same time, even if only one of them has blown, as the other may have been weakened.

If the instrument still does not work correctly after replacing the fuses with the correct replacements, or if the fuses blow repeatedly, contact your supplier's office or representative.

EMC compliance

EC directive

The chemiPRO XS instrument has been designed and tested to meet the requirements of the EC directive 2014/30/EU. The chemiPRO XS instrument complies with the EMC standard EN61326 (EMC standard for electrical equipment for measurement, control and laboratory use) and EN55011 (ISM) class B (RF emissions).

FCC rules and regulations

This product is classified as a digital device used exclusively as industrial, commercial or medical test equipment. It is exempt from the technical standards specified in Part 15 of the FCC Rules and Regulations based on Section 15.103 (c).

Introduction

Unpacking your ChemiPRO XS

Visual Inspection

Upon taking delivery of a new ChemiPRO XS instrument:

- Check the contents of the cartons as they are unpacked against the contents listed on the packing list.
- Check each item on the packing list for damage and document any damage carefully.
- If any items are missing or damaged, contact your local distributor immediately.

The ChemiPRO XS is packaged in a large carton which is securely strapped. The instrument will be shipped with the carton strapped onto a wooden pallet. Accessories are shipped in one or more separate cartons.

Unpacking your ChemiPRO XS	
 <p>Original packing of ChemiPRO XS</p>	 <p>Remove the strapping and tape and open the carton</p>
 <p>Carefully remove the carton</p>	 <p>Remove the foam packing from around the ChemiPRO XS</p>
 <p>Gently lift the ChemiPRO XS out, slide the transilluminator into place and plug it in via the flying lead.</p>	 <p>ChemiPRO XS ready for use</p>

ChemiPRO XS Overview

The chemiPRO XS is a high resolution, multi-application image analysis system that has been designed to make your gel imaging simple, quick and easy.

The ChemiPRO XS comprises of two main components:

Darkroom - this provides a completely dark environment into which the sample to be imaged is enclosed. Samples can be placed into the darkroom directly onto a screen, a UV transilluminator or a white light pad.

The ChemiPRO XS utilises a compact darkroom, which has a fully variable, motor driven stage, which is controlled by the GenePIX software.

Imaging System - samples are illuminated with a specified light source or sources and imaged directly or through specified filters. A range of light sources are available:

- High Intensity (HI) LEDs of red, green, blue and infrared (R,G,B,IR) are located high up on the sides of the darkroom. These illuminate the sample from above.
- UV lights (254-nm, 302-nm or 365-nm) in the transilluminator, provide lower light through the sample.
- Visible light converter screen over the UV transilluminator.

In addition, white LED lights are provided on each side of the darkroom, to provide general illumination when positioning and setting up samples.

Between the darkroom and the lens/camera there is a rotating wheel with spaces for up to 7 filters to be inserted. The filter wheel is numbered, enabling the location of each filter to be specified in the GenePIX software.

The ChemiPRO XS – comes with either a 6 or 9 mega pixel camera, giving the system outstanding sensitivity and versatility.

Applications Supported

The chemiPRO XS system supports multiple applications including DNA/RNA gel imaging such as EtBr, SYBR Green and visible stained gels i.e. Coomassie Blue and silver stain. It can also be used for a wide range of imaging applications including; Chemiluminescence, fluorescent blots and gels, visible blots and gels (depending on accessories ordered).

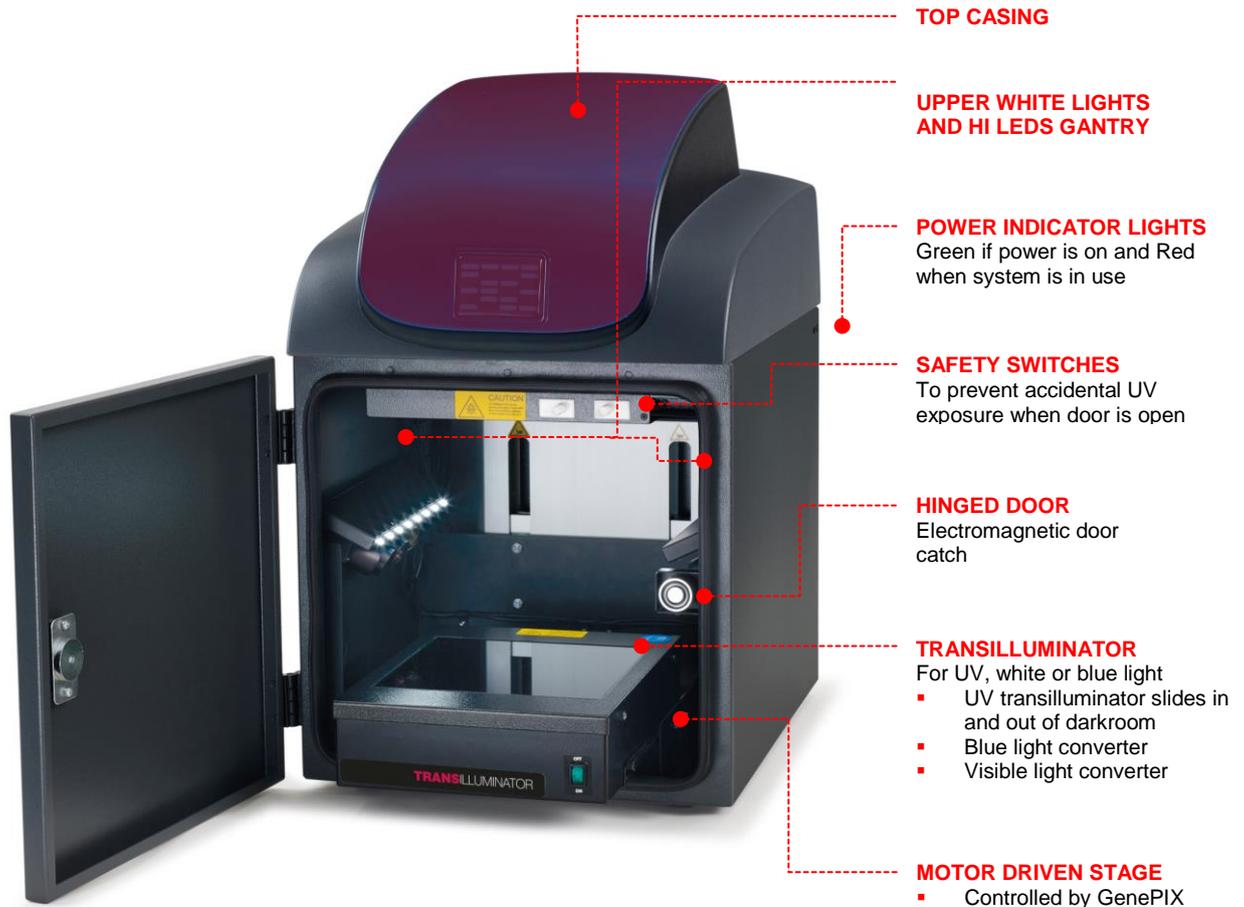
	APPLICATIONS INDEX	
	ChemiPRO XS 6	ChemiPRO XS 9
DNA gels	●	●
Protein gels	●	●
Multiplex gels - 3 or more colours	●	●
Colony counting	●	●
Chemiluminescence blots	●	●
Colorimetric blots	●	●
Stain-free imaging	●	●
Films	●	●
IR imaging	●	●
Bioluminescence	●	●
GFP plant imaging	●	●

Hardware

Specification

	SPECIFICATIONS	
	ChemiPRO XS 6	ChemiPRO XS 9
Image resolution (megapixels)	6	9
Effective resolution (megapixels)	18	27
A/D	16 bit	16 bit
Greyscales	65 536	65 536
Quantum efficiency @ 425nm	73%	73%
Lens (motor driven)	f0.95 with automated focus	f0.95 with automated focus
Filter wheel (7 position)	●	●
UV filter	●	●
Use with external PC	●	●
Darkroom – compact with motor driven stage	●	●
EPI LED white lights	●	●
HI red LED module M series for multiplexing (Optional)	●	●
HI blue LED module M series for multiplexing(Optional)	●	●
HI green LED module M series for multiplexing(Optional)	●	●
HI IR LED module(Optional)	●	●
Blue light converter (20 x 20 cm) (Optional)	●	●
Visible light converter (20 x 20 cm) (Optional)	●	●
UV transilluminator (254nm, 302nm, 365nm) (20 x 20 cm) (Optional)	●	●
Maximum image area (cm)	15 x 12	15 x 12
Minimum image area (cm)	10 x 8	10 x 8
W x H x D (cm)	40 x 64 x 52	40 x 64 x 52
Weight (kg)	45	45
Supply voltage (V ac)	100-115 / 220-240	100-115 / 220-240

System Components



Darkroom

The darkroom has a hinged door. The darkroom features:

- Slide out UV Transilluminator
- Upper white light LEDs and HI LEDs (if pre-purchased)
- Safety switches to protect from accidental UV exposure

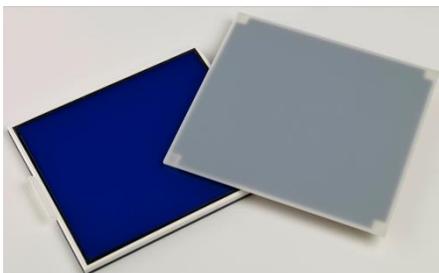
UV Transilluminator

The UV Transilluminator will excite many fluorescent stains such as Ethidium bromide, SYBR™ stains, Gel Red™. The standard wavelength is 302nm (254 and 365nm also available).

To protect users from accidental exposure, the UV light is automatically shut off if the door is opened. The Transilluminator can be slid easily in and out of the cabinet.

Accessories

Visible or blue light converter screens



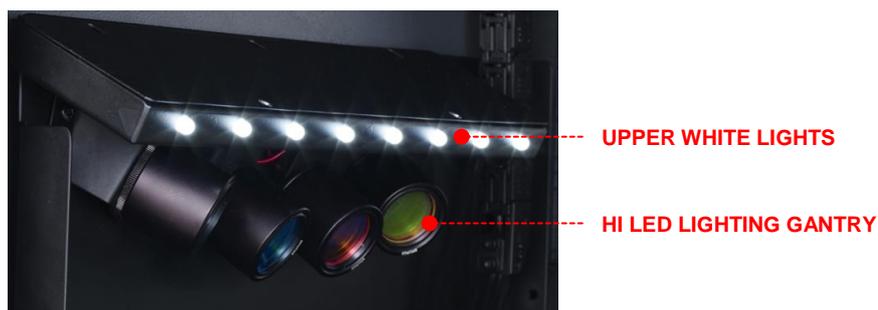
Cleaver Scientific offers a visible light converter that can be placed on top of the UV Transilluminator for imaging Coomassie and silver stained gels.

Cleaver Scientific also offers a blue light converter that can be placed on top of the UV Transilluminator for safely imaging gels stained with SYBR Safe, Gold and Green, GelGreen and UltraSafe blue.

Lights

The ChemiPRO XS is provided with the following fixed overhead light sources:

- Two LED White Light units, each consisting of a strip of eight white LEDs, located on each side of the darkroom/stage.
- A HI LEDs lighting gantry on each side of the darkroom. Each capable of holding four specific colour HI LEDs.



If HI LEDs have been pre-ordered then these will have been factory fitted.

Filters

The ChemiPRO XS is provided with a motor driven rotating filter holder. This is located in the top of the Instrument, such that the filter lenses are positioned directly below the front element of the imaging lens. Positions are available for up to six circular filters (leaving an empty slot for chemiluminescence) to be installed. These are numbered 1 - 7 so that filter locations can be identified within the GenePIX software. Access to the filter holder is gained by removing the lens and camera unit.

If filters have been pre-ordered then these will normally be installed at the factory prior to shipping. If these have been purchased at a later date or have been loose-shipped, install them as follows:

1. Unscrew the top casing.
2. Remove the lens and camera unit.
3. The filters are visible through an opening in the top of the Darkroom.



Filter visible

4. Check that there is no Filter installed in the visible Filter Slot in the Filter Holder. If there is, rotate the Filter Holder gently with a finger until an empty slot appears.
 5. Using a specialist allen key, slacken the screws on the Filter Retaining Strip on each side of the Filter Slot.
 6. Insert a Filter into the Filter Holder, making sure that the screw thread is facing upwards and that it fits snugly in the Filter Slot in the Holder, and under the two Filter Retaining Strips.
 7. Tighten, but **do not over-tighten**, the screws on the Filter Retaining Strips.
 8. Make a note of the Filter name and the Filter Slot on the Filter Holder it is fitted into.
 9. Using your fingers, gently rotate the Filter Holder until the next Filter Slot is accessible and repeat the process until all loose-shipped Filters have been installed.
- Note: You do not have to rotate the Filter Holder to any specific point; once the Machine is powered on it will be automatically indexed to its default position as part of the start-up sequence.
10. Replace the Lens and Camera Units and top casing.

Printer

The Mitsubishi P95DW printer is available for the ChemiPRO XS.



GenePIX Software

The GenePIX image capture software runs in a standard Windows environment and provides an application driven and time-saving workflow for running a variety of life-science applications.

The ChemiPRO XS is controlled and operated by the GenePIX software running on an external PC operating in a standard Microsoft Windows environment. Two cable connections are required between the PC and the ChemiPRO XS; one for the darkroom, and one for the camera.

The GenePIX software provides both automatic and manual modes of control of the ChemiPRO XS hardware and has a built in database of application specific information which it uses in automatic capture mode to optimise the hardware configuration, in order to obtain the optimal sample image. The database contains information relating to:

Sample format; Gel, Blot, Other.

Blot type; Chemiluminescence, Fluorescence, Visible.

Sample type; Protein, DNA, RNA.

Matrix type; Acrylamide, Agarose.

Dye types.

Lighting types.

Software Installation

The GenePIX software can operate on the following Microsoft Windows Operating Systems:

Windows 7 Professional SP3 (32 bit and 64 bit versions)

or

Windows 8 Professional

or

Windows 10 Professional

Note: Home versions of the Windows Operating Systems are not supported.

Please refer to the Cleaver Scientific website for the up-to-date minimum system requirements.

The ChemiPRO XS needs to have the GenePIX software installed on the associated PC from which the instrument is to be controlled.

The GenePIX software can only be installed from a Windows account that has Administrator rights. Installation is performed in the following order:

1. Run the Set-up program
2. Select the relevant hardware information
3. Select the installation folder destination Location
4. Select the Start menu folder
5. Install device drivers using the Device Driver Installation Wizard

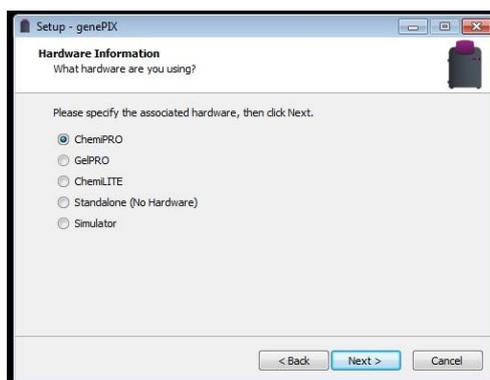
Run the Set-up Program

Insert the GenePIX USB stick and run the Set-Up Program. The following screen will appear:



Select the relevant hardware information

Click on the **Next >** button. The first **Hardware Information** screen will appear.



Select the instrument type that you have by selecting the appropriate radio button, i.e. ChemiPRO XS.

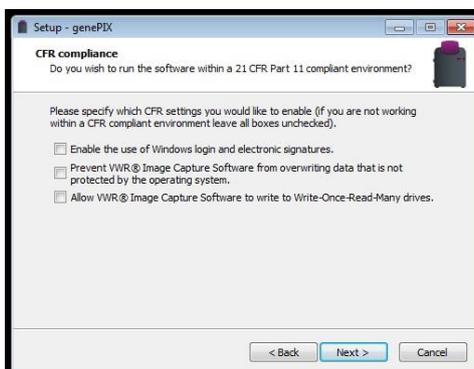
Click on the **Next >** button. The second **Hardware Information** screen will appear (below).

Select the particular model of instrument you have by selecting the appropriate radio button.

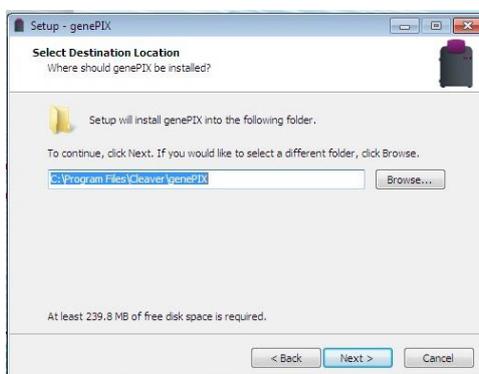
Click on the **Next >** button. The Setup - GenePIX CFR compliance screen will appear.

NOTE: DO NOT SELECT CFR IF NOT REQUIRED.

Select if running GenePIX software in a CFR21 part 11 Compliance environment. If you do not wish to work in CFR compliant environment, then select **Next** > The Setup - GenePIX Select Destination Location screen will appear.



Select the installation folder destination Location

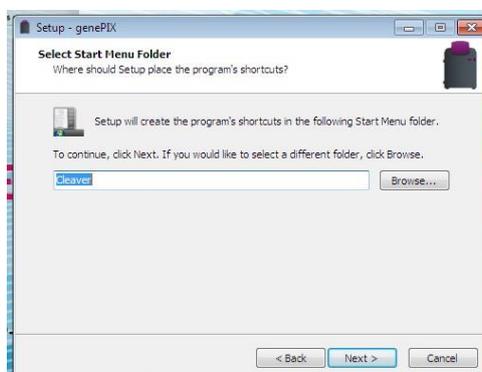


Select the folder in which you would like the GenePIX software to be installed:

- To accept the displayed default folder click on the **Next** > button.
- To choose a different folder click on the **Browse...** button and navigate to the desired folder or create a new folder. Then click on the **Next** > button.

Note: The GenePIX software installation requires at least 80.7 MB free space.

Select the Start menu folder



Select the folder in which you would like the GenePIX start menu shortcut to be added:

- To accept the displayed default folder click on the **Next** > button.

- To choose a different folder click on the **Browse...** button and navigate to the desired folder or create a new folder. Then click on the **Next >** button.

Install device drivers using the Device Driver Installation Wizard

The **Ready to Install** screen will appear. Click on the **Install** button to start the installation process.

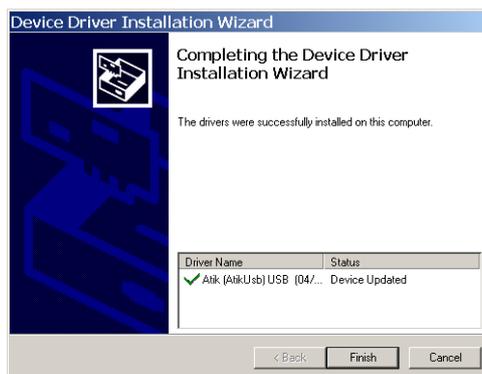


The **Device Driver Installation Wizard** screen will appear. This part of the installation process installs the software drivers that some computers need in order to complete the installation.



Click on the **Next >** button. The Wizard will automatically install the necessary device drivers on the PC that the selected hardware needs in order to operate.

Once the device drivers have been installed, the screen will change to the second **Device Driver Installation Wizard** screen. This displays details of the device drivers that have been installed.



Click on the **Finish** button.

The **Completing the GenePIX Setup Wizard** screen will appear. This indicates that the installation process has finished successfully.



Click on the **Finish** button to complete the **Set-Up** process, and remove the GenePIX USB stick.

Your GenePIX software is now ready for use.

Check your desktop, you should have a GenePIX icon visible.

Installation

Installation

CAUTION: Do not connect power supply to any of the components until you are satisfied that everything is connected correctly.

For assistance please contact your supplier or Cleaver Scientific directly.

Transilluminator set-up

Place the UV Transilluminator inside and connect it to the free flying mains lead inside the chemiPRO XS system.

Power on/off

Connect the mains lead from the chemiPRO XS system to the mains power supply and switch on the unit.

Installing GeneQUANT on a separate PC

The chemiPRO XS system is supplied with unlimited copies of GeneQUANT analysis software from Cleaver Scientific. This may be loaded on a PC of your choice.

Plug the Cleaver Scientific branded flash drive into the PC you wish to install GeneQUANT on. Navigate into the "GeneQUANT" folder on the flash drive and run the "InstallGeneQUANT" program.

Follow the on-screen instructions to install and license the GeneQUANT software. You should have been provided with media keys to license the software. These media keys can be found in a file named "Media Keys.txt" on the Cleaver Scientific branded flash drive.

Troubleshooting and Contact Information

Troubleshooting

No power to the darkroom

- Check connection of main power cord to main power port on the rear of the chemiPRO XS.
- Try another power socket within lab.

Transilluminator will not turn on

- Check power cord by sliding Transilluminator fully out from cabinet. If loose push back in.
- If still not on, remove power cord and attach another one plugged in elsewhere. If Transilluminator comes on there is an electrical supply problem within the chemiPRO XS. If it still does not come on it is likely the Transilluminator has failed. Contact Cleaver Scientific. **NOTE: Please take UV precautions.**

Darkroom door will not open

- The ChemiPRO XS door cannot be opened manually, instead use the door open icon within GenePIX .
- If it still does not open, on the rear panel of the ChemiPRO XS turn the ON/OFF power switch OFF. This will release the electromagnetic door catch.

Contact Cleaver Scientific

Cleaver Scientific Ltd,
Unit 41, Somers Road Industrial Estate,
Rugby, Warwickshire, CV22 7DH, United Kingdom

Tel: 0044 (0)1788 565300

www.cleaverscientific.com

support@cleaverscientific.com

Looking after your chemiPRO XS system

The system does not require regular maintenance or calibration other than occasional checking and cleaning.

Cleaning the imaging system

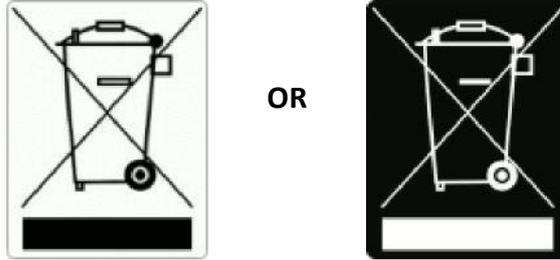
 <p>WARNING</p>	<p>Switch off the mains voltage and remove the mains cord before cleaning.</p>
---	--

You can clean the outside of the chemiPRO XS using a soft lint-free cloth, moistened if required with a little water. Mild detergent may be used, if necessary. Do not use abrasive or solvent based cleaning materials. Always perform a patch test on an inconspicuous area before you clean the entire accessory.

Avoid spilling any liquid into the body of the chemiPRO XS and clean any external spills immediately. If any liquid enters the main body of the instrument, make the system inoperative and contact your dealer.

Disposing of your Imaging system

The WEEE Directive



A label with a crossed-out wheeled bin symbol and a rectangular bar indicates that the product is covered by the Waste Electrical and Electronic Equipment (WEEE) Directive and must **not** be disposed of as unsorted municipal waste. Any products marked with this symbol must be collected separately, and in accordance with the regulatory guidelines in your area.

The objectives of the WEEE Directive are to preserve, protect and improve the quality of the environment, protect human health, and utilise natural resources prudently and rationally. Specific treatment of WEEE is indispensable in order to avoid the dispersion of pollutants into the recycled material or waste stream. Such treatment is the most effective means of protecting the customer's environment.