

# UV Safety Instructions - Quick Guide

## ■ General safety instructions

### Excising bands from gels

1. It is recommended that users wear the appropriate personal protection equipment (PPE), (including wearing clothing that covers the arms and hands).
2. As a minimum, Syngene recommends the use of full-face shields that meet the necessary levels of UV protection. Check that the full-face shields are 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). For Europe full face shields that meet the standard will be marked with the EN 170:2002 notation (Personal eye-protection - Ultraviolet filters -Transmittance requirements and Recommended use).
3. It is also recommended that all users of UV should be familiar with the guidelines published by the various national authorities. In the USA these guidelines are published by OSHA ([www.osha.gov](http://www.osha.gov)) in their standard 29CFR1910. This provides up-to-date safety information and guidance. In the UK the HPA ([www.hpa.org.uk](http://www.hpa.org.uk)) issues similar guidance.
4. Refer to DIRECTIVE 2006/25/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2006 on the minimum health and safety requirements regarding the exposure of workers to risks arising from physical agents (19<sup>th</sup> individual Directive within the meaning of Article 16(1) of Directive 89/391/EEC) for the European guidelines.

## Syngene gel image capture systems

### DigiGenius

1. The DigiGenius image capture system consists of a UV transilluminator and a hood with an attached digital camera. Gels are placed on the UV transilluminator, covered with the hood and images acquired with the camera.
2. It is imperative that the hood covers the entire surface of the UV transilluminator to prevent UV exposure to the user.
3. To excise bands when the hood is not in place this can be done by using the appropriate PPE including wearing clothes that cover the arms and hands.

## Darkroom Genius systems: darkroom with sliding door and G:BOX darkroom

1. When the UV transilluminator is fully enclosed within the darkroom and the door closed, images can be acquired within GeneSnap with no risk of UV exposure. Within GeneSnap there is a built-in mechanism for the UV cut-off if the door has not been fully closed, therefore, protecting the user.

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