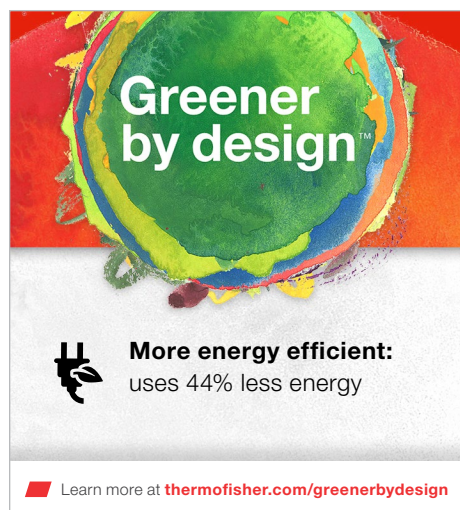


# Safe Imager 2.0 Blue-Light Transilluminator



## Introduction

Thermo Fisher Scientific is committed to designing our products with the environment in mind. This fact sheet provides the rationale behind the environmental claim that this product is more energy efficient than the previous model.

## Product description

The Invitrogen™ Safe Imager™ 2.0 Blue-Light Transilluminator is designed for viewing stained gels on the laboratory benchtop, or within gel documentation systems. Light from the LED source inside the instrument passes through a blue filter, producing light with a narrow emission peak centered at approximately 470 nm, optimal for the excitation of Invitrogen™ gel stains (e.g., SYBR™ Safe DNA stain, SYPRO™ Ruby and SYPRO™ Orange protein stains). Sensitivity obtained using this instrument is comparable to that obtained with a standard UV transilluminator.

The Safe Imager 2.0 Blue-Light Transilluminator was engineered to meet the European Union's Restriction of Hazardous Substances (RoHS) Directive

(Directive 2002/95/EC)—eliminating lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), and polybrominated diphenyl ethers (PBDEs).

## Green feature

### More energy efficient

The Safe Imager 2.0 Blue-Light Transilluminator draws approximately 44% less energy when performing a run, compared to the original Invitrogen™ Safe Imager™ Blue-Light Transilluminator (Table 1).

Setup: Safe Imager Blue-Light 2.0 Transilluminator was set up to process a sample. The instruments were set at nominal voltage 115 VAC @ 60 Hz.

Table 1. Comparison of energy usage during a run.

|                     | Average power usage (kW) | Run time (hr) | Energy usage (kWh) |
|---------------------|--------------------------|---------------|--------------------|
| Safe Imager         | 0.036                    | 1             | 0.036              |
| Safe Imager 2.0     | 0.020                    | 1             | 0.020              |
| Energy conservation |                          |               | ~44%               |