TECHNICAL DATA

XtalLight 100

UV light source	☑ Mercury arc lamp 120 W ☑ Lamp life span >2000 h ☑ Motorised shutter and intensity control
Green light source (optional)	☐ Green LED (515-535 nm), 150 lm ☐ Motorised intensity control ☐ Optional: other wavelengths are available
Filter	☑ Shortpass 385 nm ☐ Motorised filter change up to three positions ☐ Optional: Up to 2 additional filters
Control	☑ Control of UV/green light intensity, filter selection and shutter setting ☑ Manually control by front panel ☑ Remote control from PC over ethernet ☑ XtalLight 100 remote control software runs on Linux, Windows, Mac
Light guides	☑ UV light guide, 1.5 mm core diameter, length 1.5 m (optional 2.0 m) ☐ Optional: customised length ☐ Light guide for green light 1.5 m, core diameter, length 1.5 m ☐ Optional: customised length
UV/green light optics	☑ Focussing optics for directing UV or green light onto the sample ☑ Focal length 20 mm with built-in blocking filter
Hardware	☑ Table-top case ☑ Portable unit ☑ Outer dimensions (LxWxH) 400 mm x 300 mm x 200 mm ☑ Power consumption 90-264 V, 200 W
Imaging package (optional)	☐ Mini PC attached to monitor (22 inches) ☐ Operation systems: Linux OpenSUSE 15.6, Windows, MAC OS
Camera	☐ CMOS colour camera 2048 x 1536 pixel ☐ Camera adaptation to a microscope (c-mount)
Software	☐ Camera stream live view ☐ Remote operation of the camera and light sources ☐ Easy aqusition of UV images, green light images and bombinations ☐ SQL database storage and retrieval of images ☐ Short UV exposure times to minimise radiation damage on crystsals ☐ Automated timer for lamp switch-off to extend UV lamp live span ☐ Integrated SQL database for image data management ☐ Multi user workstation remote data management "Remote LIMS"
Positioning and Protection	☑ Fixed optics in an manually adjustable stand ☑ UV protection shield ☑ Fully enclosed housing of the mercury arc lamp
Adaptable microscopes	☑ Adaptable to numerous microscopes with a working distance of ~50 mm
Suitable plates and sealing	☑ Crystallisation plate with low intrinsic fluorescence (low birefingence) and UV suitable sealing films, glass up to >1 mm thickness