

# Technologica CFImager

## Technical Specification

### Electrical.

<b>Mains input</b>	IEC connector
<b>Voltage</b>	85-264 VAC
<b>Frequency</b>	47-440 Hz
<b>Inrush Current</b>	40A peak maximum
<b>Power Factor</b>	0.99 typical-meets EN61000-3-2
<b>Average Current</b>	2-3A typical
<b>Radiated EMI</b>	See Technologica Manual - CE conformity certification
<b>Fuse</b>	15A internal
<b>Safety and Disposal</b>	Customer Safety Notice TD002/003/E/G WEE registered

### Lighting.

<b>Source</b>	Blue Led 470nm -16 thermally stabilised panels-1600 Led's
<b>Control</b>	PWM- software control
<b>Calibration</b>	Pre-calibrated and pre-aligned
<b>Irradiance</b>	> 6000 $\mu\text{mol}/\text{m}^2/\text{s}^{-1}$ saturating pulse, 2000 maximum continuous actinic
<b>Accuracy</b>	2% typical over actinic range 30 to 2000 $\mu\text{mol}/\text{m}^2/\text{s}^{-1}$
<b>Uniformity</b>	+/-5% typical maximum variation of average at 9 symmetrical locations inside a 125.0 X 88.0 rectangular imaged area

### Camera

Pre-calibrated AVT Stingray SXGA+  $\frac{2}{3}$ " CCD progressive scan camera

### Calibrated

#### imaged area

110.0 cm<sup>2</sup> (17.67 in<sup>2</sup>). 125.0 mm (4.92") x 88.0mm (3.59")

#### Imaged area aspect ratio

1.35:1

### Software.

Fluorimager<sup>®</sup> Online upgrades for downloading.

### Mechanical

<b>Construction</b>	Light- excluding panels - tubular frame
<b>Finish</b>	Satin black stove enamelled
<b>Ventilation</b>	60 mm Axial fan
<b>Sample mounting stage</b>	120mm (4.7") x 170mm (6.7") aluminium with lockable sample location cams for 96 Well Plates or user configured. Removable stage is mounted on a precision 20mm vertically adjustable rack and pinion.
<b>User access</b>	250mm (9.9") x 250mm (9.9") - hinged door
<b>External dimensions</b>	Overall height-580mm (22.8") Width 450mm (17.7") Depth 450mm (17.7")
<b>Internal volume</b>	0.085 m <sup>3</sup> (3ft <sup>3</sup> )
<b>Free height above</b>	
<b>Sample stage</b>	Including retaining cams 120mm (4.7") typical
<b>Net weight</b>	20Kg (45lb)

### Environmental

<b>Operating temperature</b>	0 to 40°C ambient (32 to 100°F)
<b>Storage temperature</b>	-40 to 70°C (-100°- 160°F)
<b>Operating humidity</b>	5%-95% non-condensing

The design and specification of the described product are subject to change without notice.