


**CON-TROL-CURE<sup>®</sup>**  
**LM-9000<sup>™</sup> SPECIFICATIONS**
**Detector Specifications**

Detector:	2048-element linear silicon CCD array
CCD elements:	2048 elements @ 14 $\mu\text{m}$ x 200 $\mu\text{m}$ per element
Sensitivity (estimated):	86 photons/count 2.9 x 10 <sup>-17</sup> joule/count 2.9 x 10 <sup>-17</sup> watts/count (for 1-second integration)
Sensitivity:	200-850 nm
Integration time:	3 milliseconds to 60 seconds (with 1 MHz A/D converter)

**Optics Specifications**

Grating:	600 lines/mm, set to 200-850 nm (blazed at 300 nm)
Slit:	100 $\mu\text{m}$ width (height is 1 mm)
Order-sorting:	Single-piece, multi-bandpass detector coating to eliminate second-order effects from 200-850 nm
Resolution:	1.5 nm (FWHM)
Stray light:	< 0.10% at 435 nm < 0.10% at 250 nm

**UV-VIS A/D Converter Specifications**

Board architecture/design:	half-length ISA-bus converter for single slot in desktop PC
A/D resolution:	12-bit
A/D sampling frequency:	1 MHz (maximum)
Integration time:	3 milliseconds to 60 seconds