

## Applications & Solutions

### Ultraviolet

UV illumination can be delivered through a borescope by using UV-ready illumination fiber. Typically this fiber has a lower acceptance angle and requires a narrow field of view in the image optics to match the illumination pattern. Ultraviolet probes cannot be used with Multiscope or Multivision. They must have the correct UV capable fiber directly attached to the lightsource. UV probes can be built for MilliscopeII with continuous lightguide specification (CL). This construction has a continuous illumination fiber bundle from the lightsource to the probe tip, maximizing UV throughput. If a detachable illumination bundle is desired, a Lumatech liquid lightguide can be used from the lightsource to the probe. Lumatech also produces a high quality UV lightsource.

#### **UV output,**

Output measurements have been made on the following scopes: 4mmØx90° direction rigid probe ~4000µW/cm<sup>2</sup> at 35mm. 1.7mmØx90° direction rigid probe ~300µW/cm<sup>2</sup> at 10mm. These tests were done using the Lumatech UV source., UV output,