

The FiberMate2™ focuses the beam of the spectrometer into a spot of approximately 1mm diameter onto the end of the fiber. This assumes that the instrument has a 6mm diameter spot at the focus and a beam spread of 20° (full angle), as is common for modern FTIR spectrometers. The overall angle of the cone of light terminated by this 1mm spot is 60°. The FiberMate2™ uses two 6X beam condensing mirrors, 90° off-axis ellipsoids, one for the input SMA connector of the FiberMate2™, one for the output SMA connector.