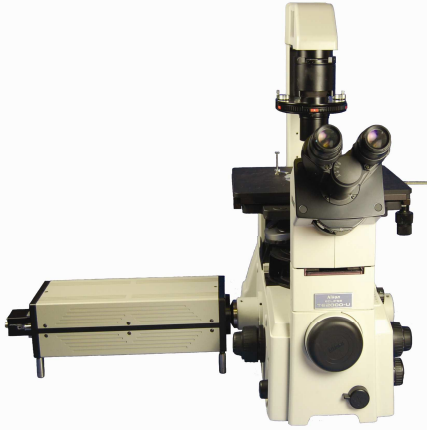# Gooch & Housego

Using the HSi-440CM Hyperspectral Imaging System with a Microscope

Both the input and output f# of the HSi-440CM Hyperspectral Imaging System is f/10, whereas it's f/20 for input and f/10 for output for the -440CM. This means -440CM (on a microscope) is at its optimal performance when the microscope objective is a low magnification (~10x) so an input f# (microscope's output f#) of f/10 is practical. For example, a 10x0.5NA objective will have an output f# of f/10. When -440CM is on a microscope where the objective is a 40X or higher mag, 440CM's input f# is most likely underutilized (or wasted) because there are few microscopes can generate a f# <f/10 at those magnifications. For example, a 40x1.0NA objective will have only f/20 at the output.

In other words, HSi-440CM on a microscope is at its full potential at lower magnifications. At higher magnifications -440CM has an advantage by having a much larger FOV.

light·All光傲
光 电 计 量 测 试 专 家
400-921-9858 sales@light-all.com www.light-all.com