

A Study on Measurement of Cells Using Scanning Confocal Microscope

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Key words : Scanning Confocal Microscope, Tuning Fork, Frame Grabber Board

1. (SCM : Scanning Confocal Microscope) (H-Sync) (V-Sync)
 가 x
 (Optical section) 가
 (artifact) 가 x
 6mm, 0.25mm 1.24kHz x
 250 μ m

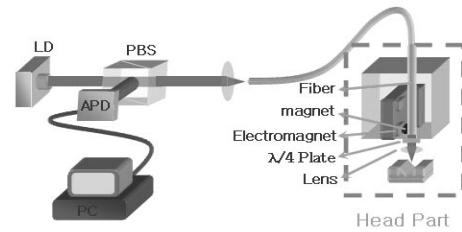


Fig. 1. Scheme of SCM

, RNA, DNA

가
 CT MRI

Fork 가 가 2 Tuning
 8.7mm 가 12.0mm, 5.3mm,

(in vivo) 가

Tuning Fork

가 (Pinhole) 가

가 가 x 200 μ m

가

2.

1

780nm , 3mm
 (single mode polarization maintaining fiber) 0.45
 NA core 가 5.3 \pm 0.5 μ m

(variable scan)

(frame grabber board)

y , x

x

y

(Synchronization pulses)

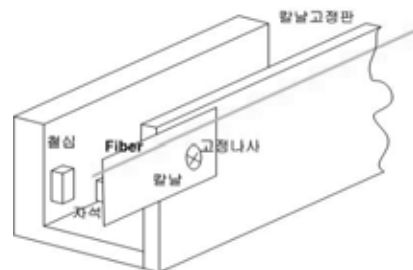


Fig. 2. Scheme of Tuning Fork

3.

