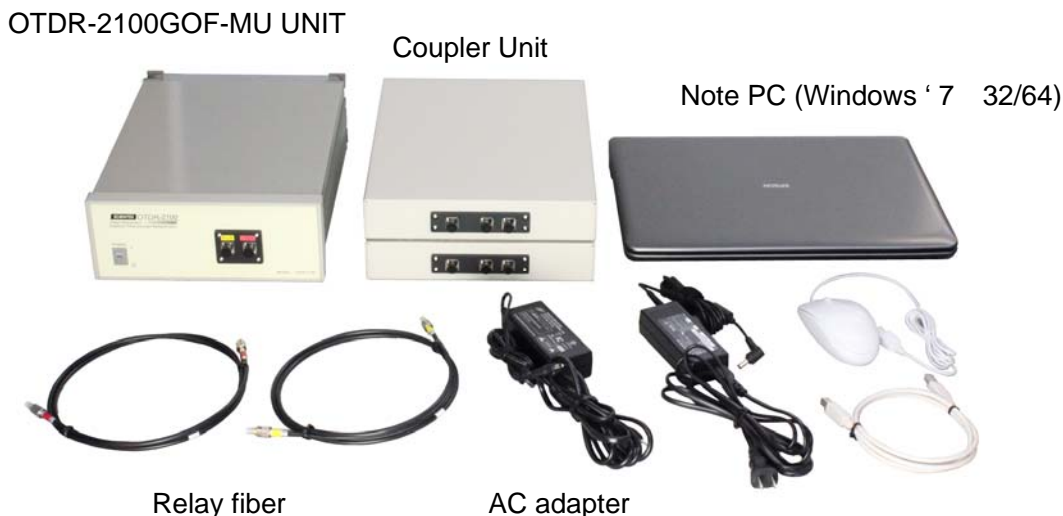


OTDR-2100GOF-MU

1) Structure of a system



This is the system which can measure two kinds of fiber.

We can build more it to four kinds .

If core diameter matches, as for POF and the Silica, the measurement is possible in both.

But adjustment is necessary every one of target fiber at the time of shipment.

This is because the fiber has different Rayleigh scattering properties individually.

Pulse width:

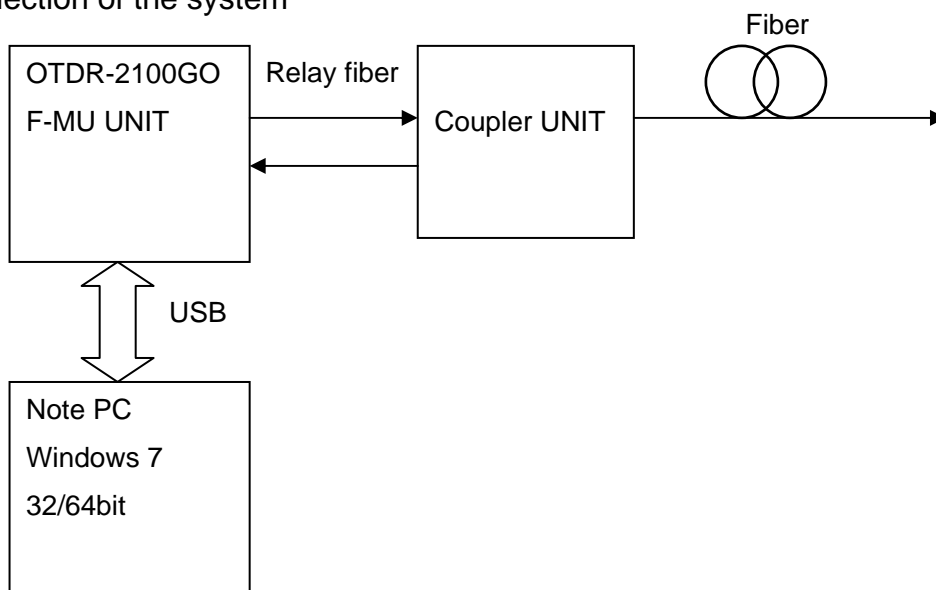
In the case of Fused silica fiber, 2ns and 10ns are used.

As for plastic fiber, 10ns or 20ns are used.

Because the frequency band width of plastic fiber is 40MHz-200MHz.

Therefore, 10ns and 20ns are the most suitable pulse width.

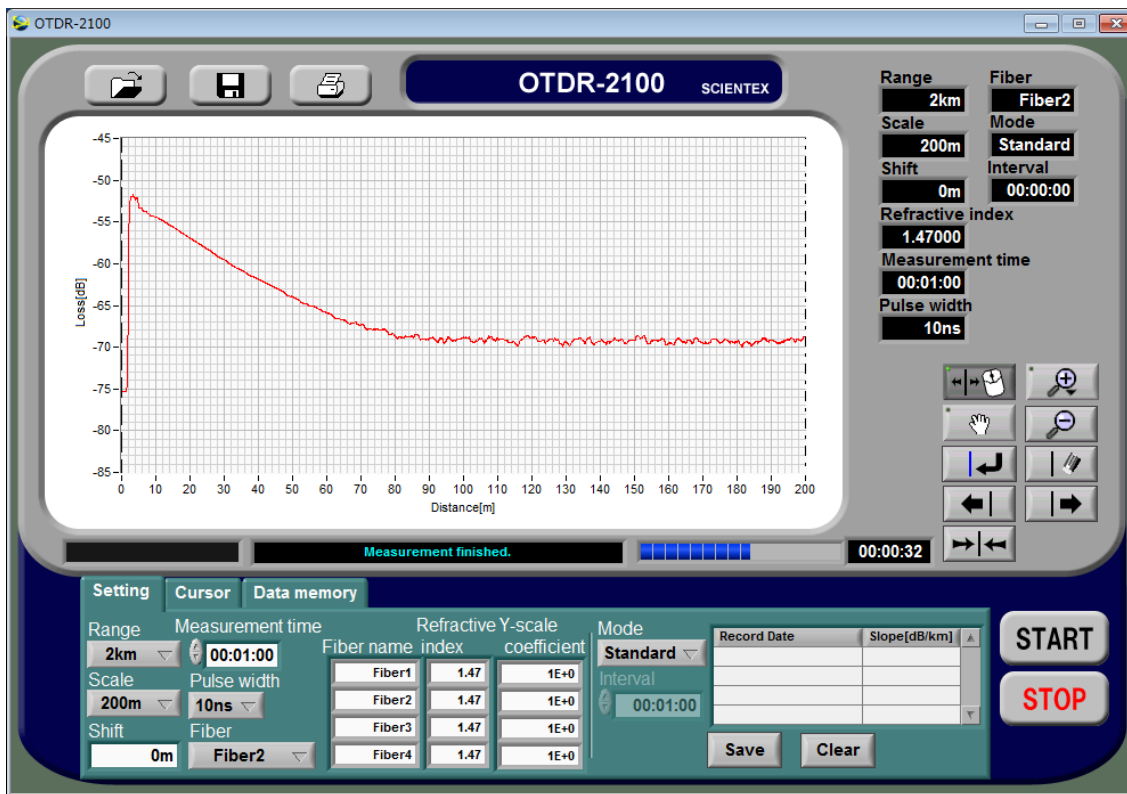
2) Connection of the system



3) Measurement example

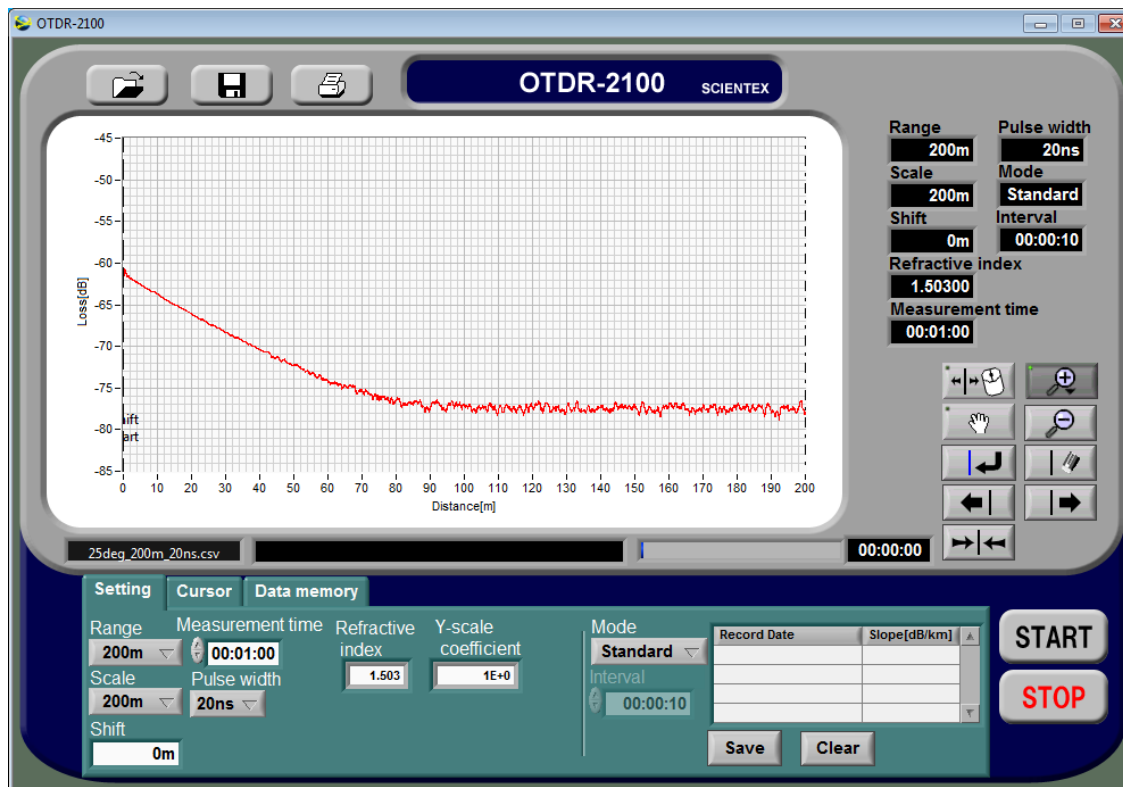
POF 1000um Core :Eska-premier (Mitsubishi Rayon Co.,LTD)

Pulse width:10ns ,scale 200m



POF 500um core:Super Eska SH2001-J (Mitsubishi Rayon Co.,LTD)

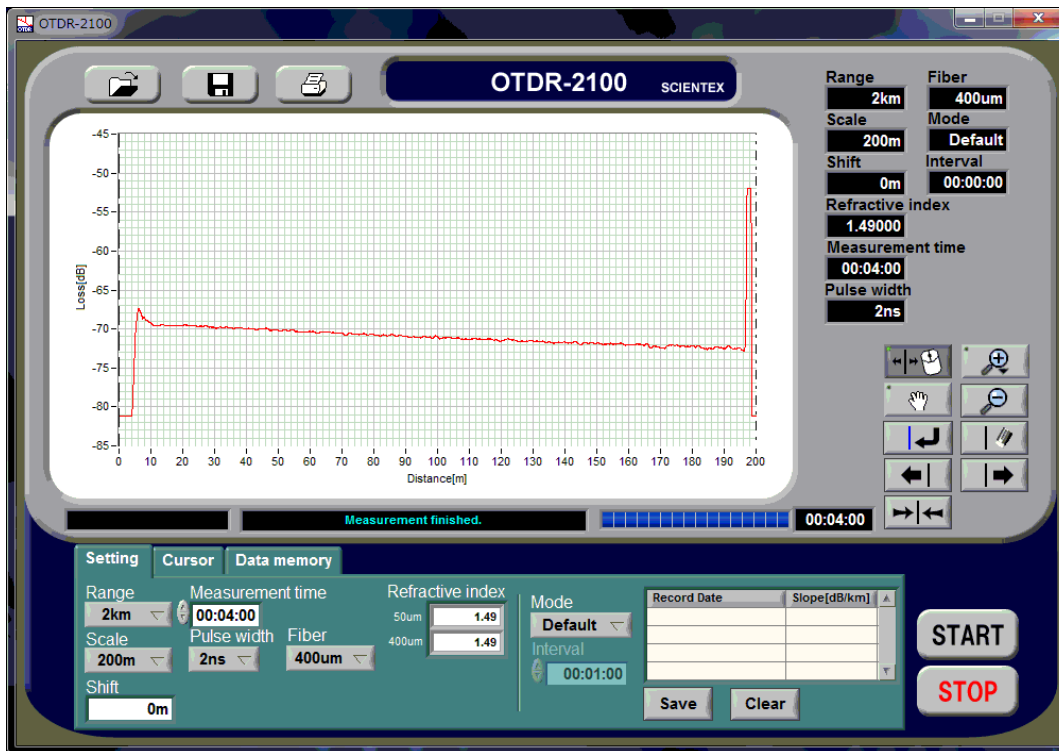
Pulse Width 20ns,Scale 200m



400um Core(Fused Silica Step Index)

Scale 200m

Pulse Width 2ns,Measurement time : Four minutes



50um/125 Multi-mode fiber(Fused silica fiber)

Connected patch cord 100m and 1000m

Pulse width:2ns

