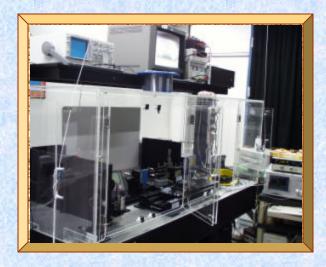


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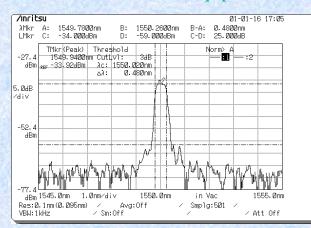


# Scanning Beam Fiber Grating Fabrication System



#### **Key Components**

- Frequency doubled Argon laser
- Ultra-precision motorized translation stage
- Vision system
- Fiber strain monitoring system
- Control and measurement equipments



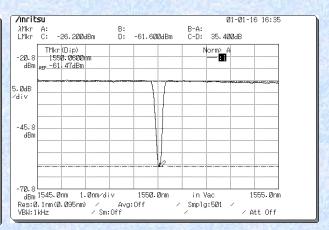
Transmission Spectrum of Apodized FBG

### **Objectives**

- To set up a FBG fabrication system with emphasis on flexibility and versatile capabilites.
- To complement and further improve the optical communication research by incorporating fiber grating technology.
- To expand NTRC collaboration with other research institutes or industries with complementary technology.

#### **Types of Gratings**

- Uniform FBGs
- Cascaded gratings
- ❖ Apodized FBGs
- Chirped gratings
- ❖Long period gratings
- Phase shifted gratings



**Reflection Spectrum of Apodized FBG** 

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