

Description

1.1. Overview

PC-3000 is the software companion to Laser Precision Corporation's TD-3000 Optical Time Domain Reflectometer (OTDR), shown in Figure 1-1. With PC-3000 operating in your computer, you can perform all the measurement and analysis functions found in the TD-3000, but in the comfort and convenience of an office or laboratory environment. This allows centralized data storage, analysis, and trouble shooting of fiber optic systems.

PC-3000 is not limited to trace files collected by the TD-3000. It can also use traces from Laser Precision's TD-1000, TD-2000, TD-9950, TD-9960, and FF-1000 series.

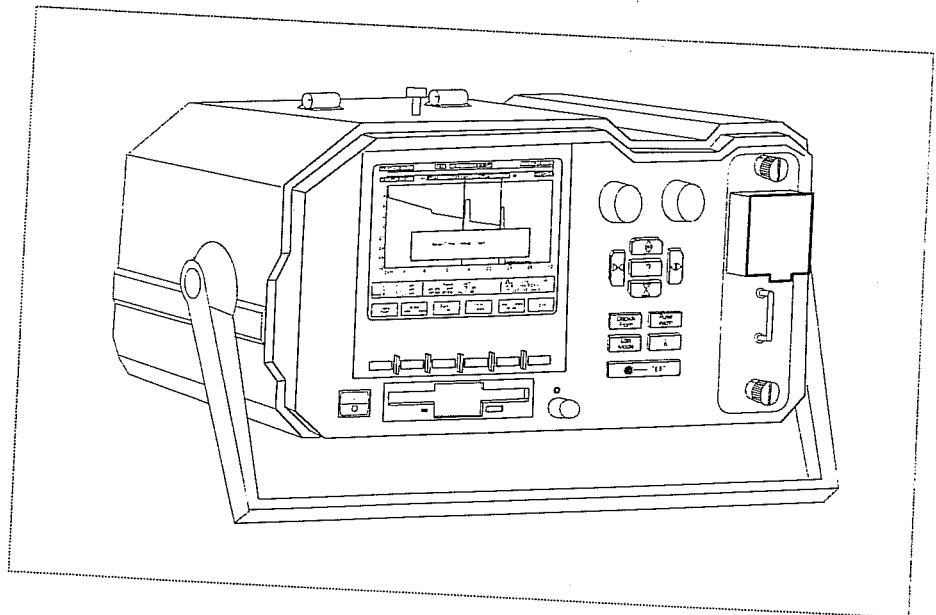


Figure 1-1. TD-3000

1.1. Overview (continued)

OTDRs and Feature Finders fire short pulses of light into a fiber and analyze the light reflected back to the optical receiver. This reflected light is compiled as a trace profile of the fiber. PC-3000 uses trace profiles that have been stored by these devices.

When a trace is displayed by PC-3000, it appears as shown in Figure 1-2. The grid on the display shows power (dB) vertically and distance horizontally. The attenuation of the optical power in the fiber appears on the display as a downward sloping line from left to right. The slope is proportionate to the amount of attenuation in the fiber. Spikes, or reflections, appearing on the display are a result of Fresnel reflections. Abrupt drop-offs in the trace, or steps, are typically the result of fusion splices or macrobending.

Figure 1-2 shows a TD-3000 trace that was compiled with a TD-385 Optical Module. The module that was used is identified in the Trace Characteristics Window just above the **MORE**F6 function key, accessed by clicking the *right* mouse button while the mouse cursor is in the shaded area above the F6 key.

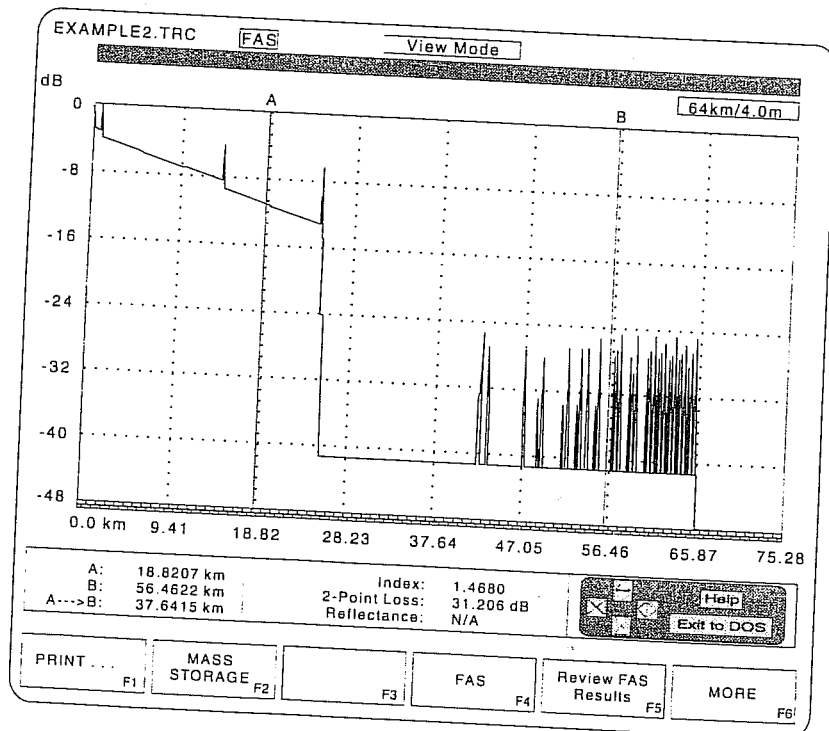


Figure 1-2. Sample Trace Display