

EVD LIGHT WEIGHT DEFLECTOMETER



1. Introduction

The EVD Light weight deflectometer is used to evaluate the deflection value of layered subgrade under dynamic load, so as to evaluate the bearing capacity and deformation of subgrade. It is suitable for monitoring and testing the construction quality of railway, highway, airport, urban traffic, port, wharf and industrial and civil buildings under dynamic loads, especially in narrow areas, such as bridge (culvert) transition section and shoulder detection, existing line subgrade, etc. It can quickly measure the dynamic deformation modulus Evd value.

2. Features

- 2.1 High precision sensors are used to achieve high test accuracy
- 2.2 LCD display with backlight for better visibility in various environments
- 2.3 Automatically calculate Evd value and display curve, accurate and intuitive
- 2.4 The instrument simulates the impact effect of high-speed train on subgrade.
Compared with static load test, it can better reflect the actual stress of subgrade soil.

3. Specifications

Machine model	EVD
Testing material	Soil and rock with particle diameter less than ¼ of loading plate
Range	10 – 225 MPa
Impact depth	0 – 500 m
Hammer impact	Max 7.07 kN
Drop height	Max 700 mm
Loading plate	Diameter = 300 mm