



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

RSM-FBN(A) - BRIDGE DEFLECTION TESTER - NON-CONTACT BRIDGE STATIC AND DYNAMIC



Application:

- Test the dynamic/static displacement detection of such large facilities as bridges, tower and hoisting machinery, and can also be used for long-term monitoring of buildings, tunnels, dams and slopes.

Specifications:

- Highway Bridge Load Testing Procedures (JTG-T-J21-01-2015)
- Technical Code for Monitoring of Building and Bridge Structures (GB50982-2014)
- Code for Engineering Surveying of Urban Railway System (GB/T 50308-2017)
- Code for Engineering Surveying (GB 50026-2016)
- Technical Specification for Bridge and Tunnel Structure Safety Monitoring (DB4201/T624-2020)
- Technical code for monitoring and measurement of soft rock tunnel (T/CSPSTC40-2019)

Features:

1. High precision:

- The instrument realizes the real-time calculation of 0.001mm-level high-precision displacement data through the unique fast self-calibration technology and by combination of attitude sensor, tangential and normal information of object surface.

2. High Frequency:

- Synchronous high-frequency measurement at 300Hz on 40 points is realized by using professional-grade industrial camera and combination of special data processing and data transmission technology under the condition of ensuring measurement precision.

3. Large Visual Field:

- The instrument adopts a method of evaluating criterion based on image sharpness to remove the influence of such factors as sunlight/shadow and smog on image quality, adaptively improve and enhance the image quality, and meet the requirements of 1,000m long-distance measurement by combination of professional-grade lenses.

4. Multiply Functions:

- The filtering function is perfect, through which the collected curves are pre-processed and post-processed. Multiple functions, such as impact coefficient, damping ratio, spectrum analysis and ultra-limit alarm are readily available. Images can be recorded first, and then processed and analyzed, which is convenient and quick.

Standard supply (Configuration):

1. Host: 1 nos.
2. USB3.0 data transmission cable: 1 nos.
3. Lens (16mm, 25mm, 50mm, 75mm): 4 nos.
4. Tripod: 1 nos.
5. U Disk: 1 nos.
6. Power adapter: 1 nos
7. Laser rangefinder 1 (100m, Accuracy: $\pm 7\text{mm}$): 1 nos.
8. Laser rangefinder 2 (1500m, Accuracy: $\pm 5\text{m}$): 1 nos.
9. Laser rangefinder platform: 1 nos.
10. Phillips screwdriver: 1 nos.
11. Instrument container: 1 nos.

Technical Specification

•Working Distance	:	0.01m~1000m
•Measuring Range	:	0.01 mm~500m
•Measurement Resolution	:	0.005mm (0.001mm, Need to customize)
•Measuring Accuracy	:	$\pm 0.02\text{mm}$ (10m
	:	$\pm 1\text{mm}$ (100m)
	:	$\pm 10\text{mm}$ (500m)
•Need to customize (Measuring Accuracy)	:	$\pm 0.016\text{mm}$ (10m)
	:	$\pm 0.7\text{mm}$ (100m)
	:	$\pm 5\text{mm}$ (500m)
•Measuring Frequency	:	0~1000Hz (Optional)
•Dynamic Measuring Points	:	40 Points @300HZ
•Static Measuring Points	:	No limited

•Measuring Mode	:	Live mode or record the working condition video
•Host Weight	:	3 kg

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