

Profile camera

er projector

Check for missing or loose

bolts using laser beams

## Track Material Monitoring Device



Initial registration: 2018

Reducing environmental impact using trains in commercial operation for track material monitoring

The device can be equipped to the underfloor space of trains in commercial operation. This eliminates the need for special inspection cars equipped with monitoring devices, thus reducing energy usage. It also reduces nighttime vibration and noise as it eliminates the need to operate special inspection cars at night.



A device equipped to the underfloor space of trains in commercial operation to obtain the image data of track materials (rails, rail fasteners and fish bolts) using laser beams, while traveling at up to 130 km/h in order to check for missing or loose bolts.  Compact design enables the device to be equipped to the underfloor space of trains in commercial operation

Frequent measurement is achieved through installation on trains in commercial operation

Note 1: "(線路設備モニタリング装置) Track facility monitoring device" is a collective term for the "track material monitoring device" and the "track irregularity measuring device," which measures track irregularity, such as displacement or level irregularity. Note 2: The information in this document has been approved by East Japan Railway Company, with which we jointly developed this device.

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