

**Measurement Accuracy Verification of OCL Contactless Measurement Device
by On-board Test Run in Conventional Line**

Itaru MATSUMURA Kazuyoshi NEZU Hiromu SUSUKI
Takuro KAWABATA Yusuke WATABE

To realize sophistication of maintenance and maintenance cost reduction of Overhead Contact Line (OCL), it has been desired to frequently measure three-dimensional structure of the OCL from the vehicle of train. Therefore, we have developed a contactless OCL measurement device to be installed in commercial vehicles. The developed device realizes wire position measurement of OCL by combining a line scan camera and a laser scanner, and can also measure catenary fitting position of OCL using machine learning. This paper reports the results of on-board tests of this device on conventional lines and its verification of the measurement accuracy.