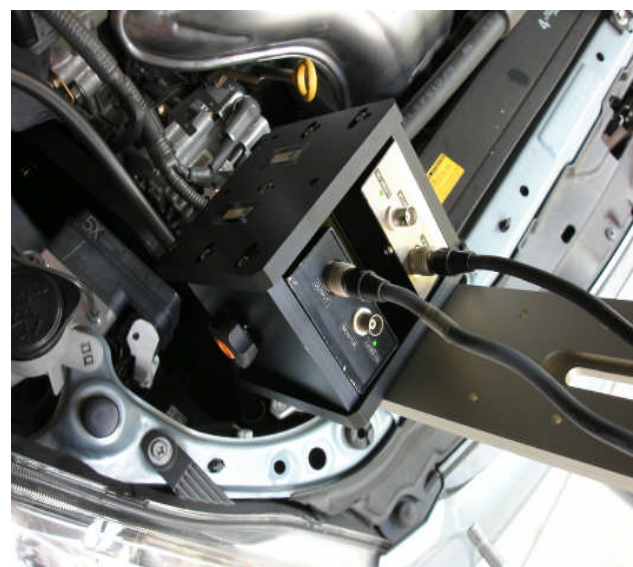
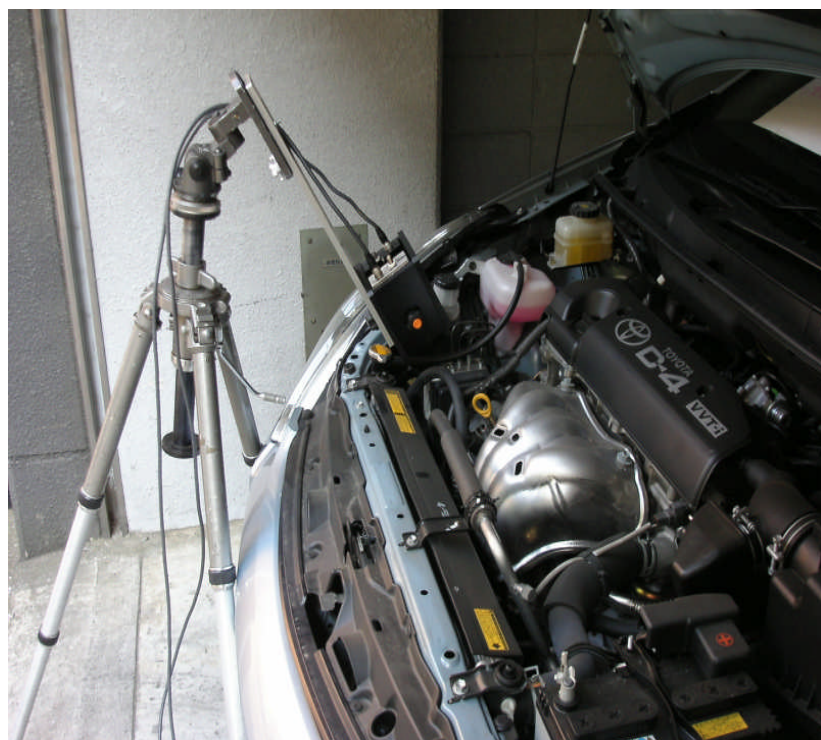


MODEL-2021 Applications

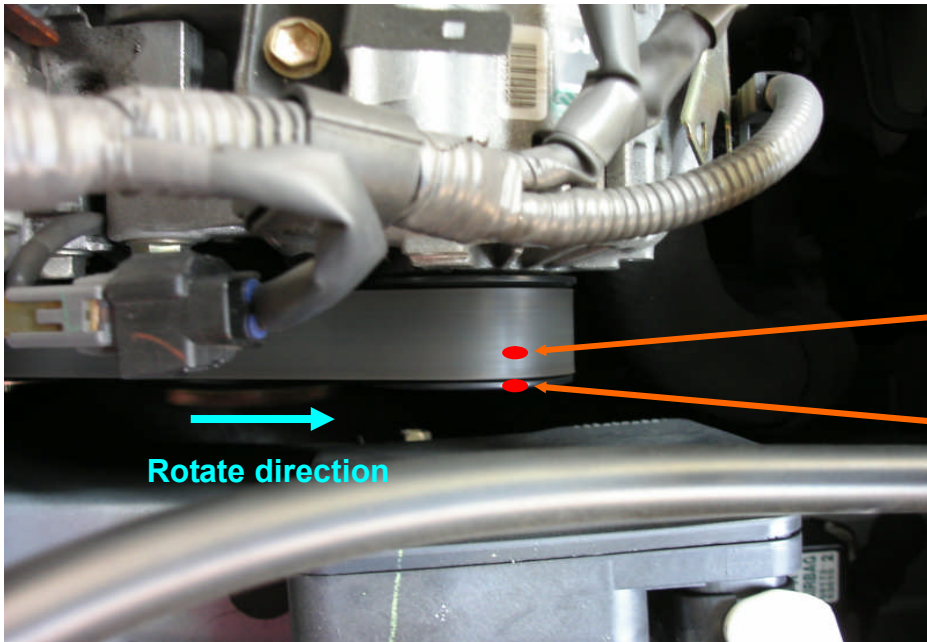
Measurement for Automobile application



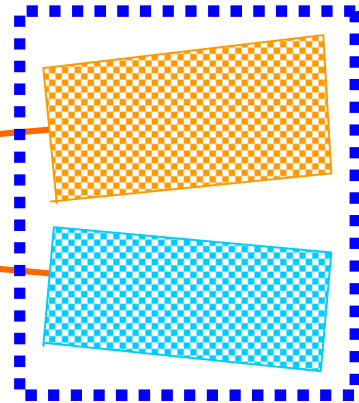
MODEL-2021 is 2-Channel Laser Doppler Velocity Analyzer. By simultaneous 2-channel measurement, this instrument is possible to make slip and transfer characteristic from measuring results between two points.

MODEL-2021 uses the optical method, called Laser Doppler, which has no interference from undulations, colours, or printed line on the surface of the subject, Non-contact measuring system requires no additional object such as rotary encoder, and is available to observe varied velocity in a revolution with higher resolution than rev counter.

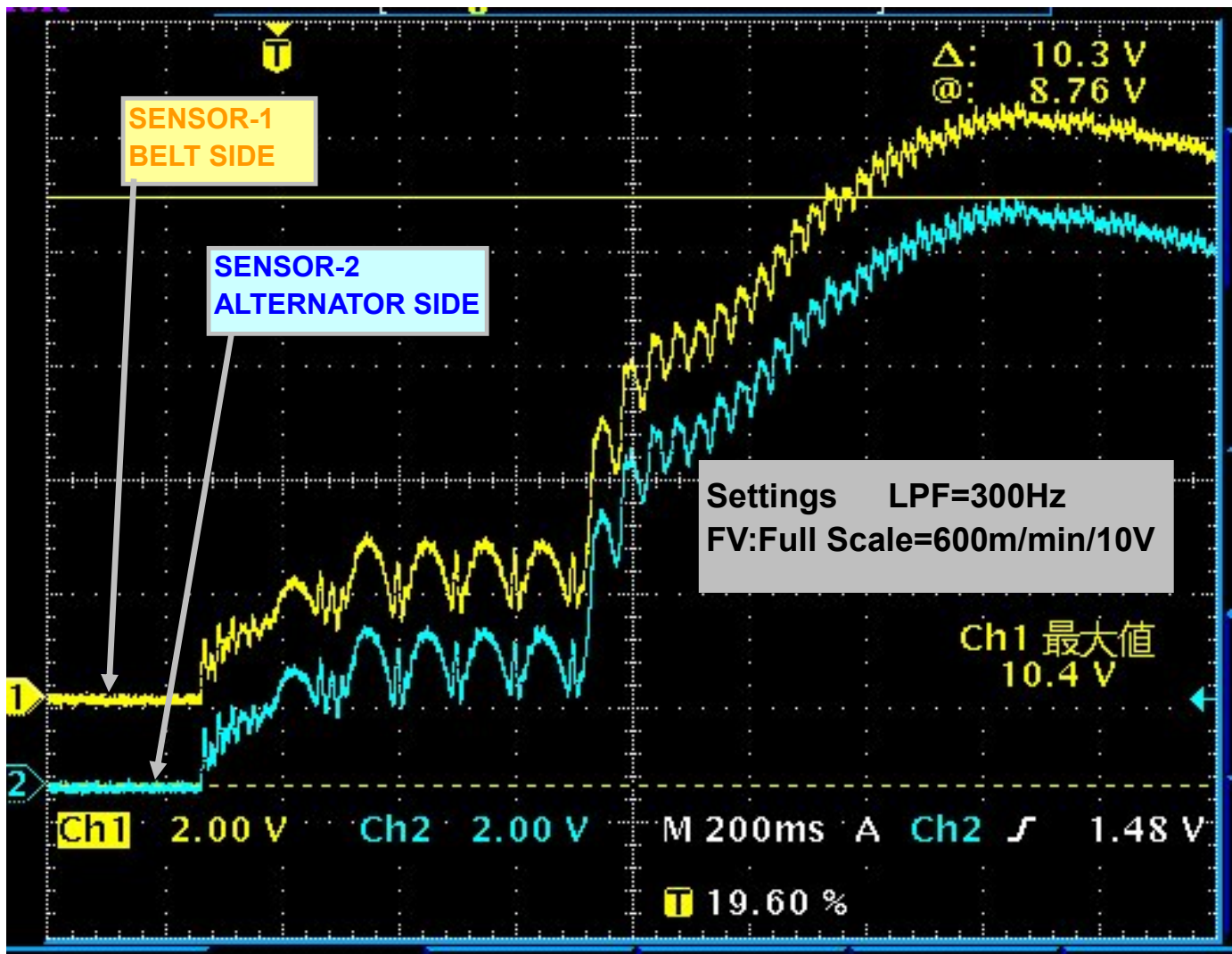
It is easy to set up this instrument. This advanced measuring system solves problems of complicated procedures, which conventional optical methods have faced with, for example delicate axis adjusting or providing special jigs.



**SENSOR-1
BELT SIDE**



**SENSOR-2
ALTERNATOR SIDE**



Left photos are examples of setting sensor. Two optical sensors are fixed in the same chassis to reduce the effect of vibrations between two sensors. The chassis is held rigidly by a tripod having an extension board.

One of produced laser beam as “CH-1” focuses on the belt side, and the other beam as “CH-2” focuses on the alternate side (a flange part of pulley). In this condition, the axis is required to focus on as close to the centre shaft of pulley as possible. All setting procedures are only above.

Clanking and Starting the engine

Scheme of the slip action between a Pulley and a Belt.

