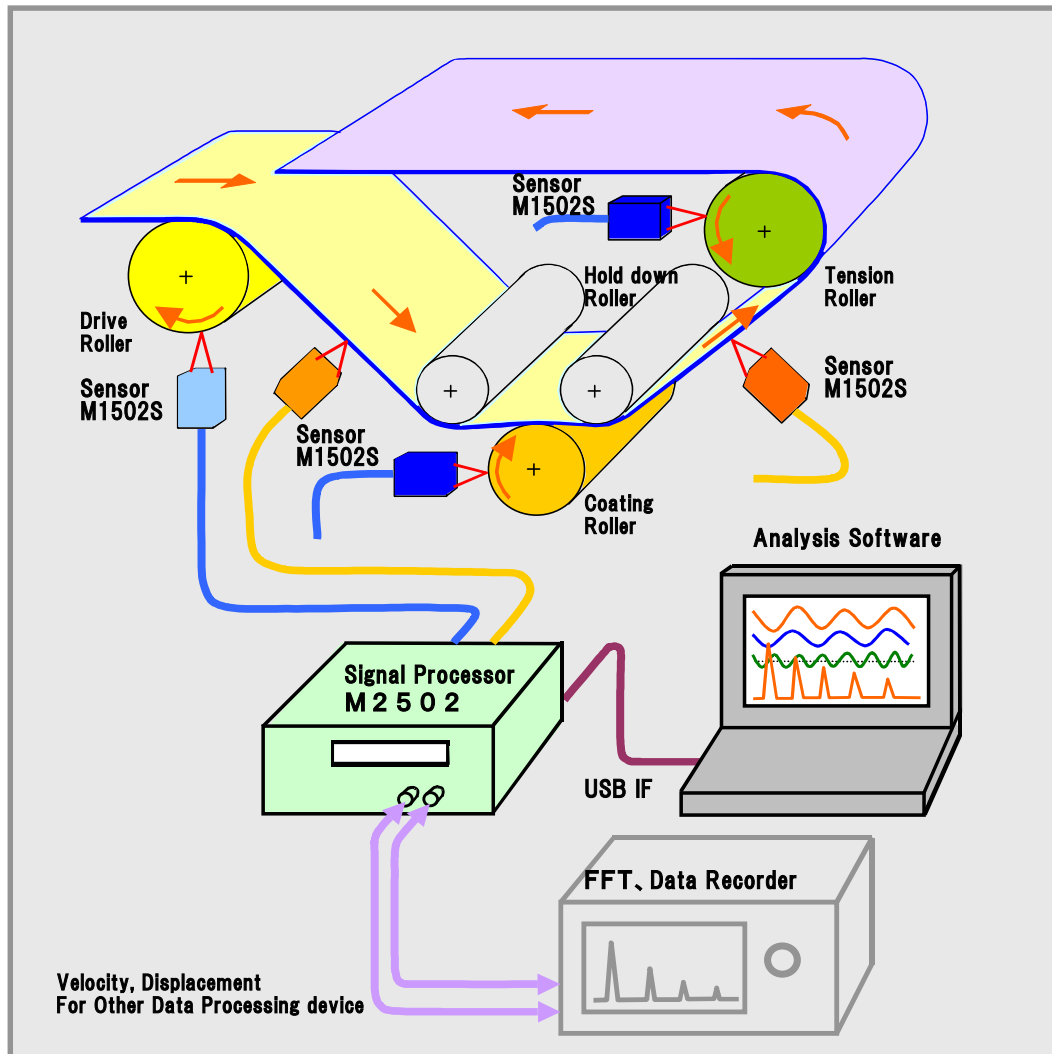


MODEL-2502 Application

Film: Coating Process of transparency film for LCD panels.



The figure pictured above is a diagram of the coating process on **the transparency film for LCD panel**, by using 2-channel Laser Doppler Velocity Meter **MODEL-2502**.

The advanced technique is required to coat the film equally and with uniform thickness, especially the control of the moving velocity of the film and rotating velocity of a roller. If the velocity of rotating or moving is varied, the quality of coating or thickness may not be controlled.

MODEL-2502 uses the optical method for velocity measurement. This method is **Non-contact measuring system** therefore it is available for measuring soft or delicate material, such as not only transparency film but also a roller which has mirrored surface.

The measurement result by using this system has no interference from colours and any other status on the surface of the object.

By measuring two points simultaneously between **the transparency film and a roller** (for drive, coat, tension or others), and analyzing the measured data with **the powerful software** supplied with this system, the correlation between relative value of slip and the frequency is figured out numerically.

This measuring system can make great help to solve the problem, which relates "**wow-flutter**" on the rotation of the motor, the reduction gear and roller in the production line of the transparency films for LCD panel.

And having an analog velocity output, it is capable of connecting a FFT analyzer, data storage system, or a signal processing system.

In the transparency film coating field, our Non-Contact measuring system is the best method for providing high quality optical films at this time.