**kSA RMAT: Rotational Monitoring And Triggering**

**Direct Coupled Hardware for Sample Analysis During Rotation**

The Rotation Monitoring and Triggering (RMAT) product was developed by k-Space to meet the needs of scientists and engineers who desire an accurate, programmable trigger source coupled to a rotation stage during thin-film deposition or most any process with sample rotation. With the RMAT, the user can program precise trigger positions during rotation with 12-bit resolution, and use these triggers to initiate external events such as the acquisition of analytical images or other optical metrology at specific rotation angles.

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### Features

- Single dialog, windows-based software with integrated help manual permits easy access to the functionality of the encoder.

- The encoder is equipped with a programmable logic controller (PLC) allowing positions to be programmed on the fly while the shaft is rotating.

- Select up to 4 different trigger positions with precision to 0.088 degrees (12-bit) out of the full 360 degrees of rotation.

- Trigger output is TTL-level and accessible though the encoder cable.

- The trigger pulse width is programmable and can be set in the range of 1-255 msec.

- k-Space can supply (optional) a custom shaft couple and encoder mounting plate upon request.

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### Simple Software and User Interface

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**Your partner in thin-film metrology**

*k-Space Associates, Inc., is a leading supplier to the surface science and thin-film technology industries. Since 1992, we’ve delivered the most advanced thin-film metrology tools and software thanks to close collaboration with our worldwide customer base.*