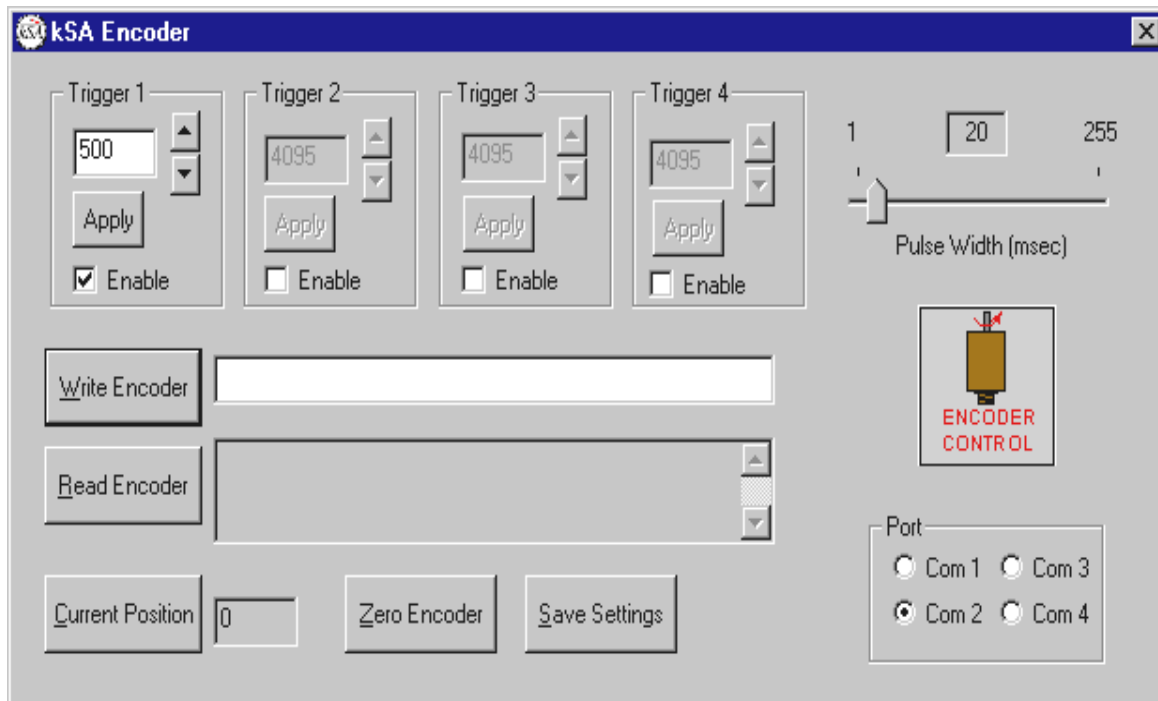


# Rotation Monitoring and Triggering



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. With the RMAT, the user can program precise trigger positions during rotation, and use these triggers to initiate external events such as the acquisition of analytical images at specific rotation angles.



- Single dialog, windows-based software permits easy access to the functionality of the encoder.
- The encoder is equipped with a programmable logic controller 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 through 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.

