Spectral Products Repair Summary

| Customer: BYU | RGA # SP1724 |
|----------------------------|-----------------------|
| Contact: Dr. John Colton | Phone: |
| Date In: 9 May 2016 | Serial # 10570 |

Non-Warranty

Equipment Returned: DK240 only

Reason for Return: Electronic Upgrade

Evaluation: Originally manufactured in Jan 1996. Has one piece turret with gobs of grease applied (most likely when manufactured). Bilateral slits – exit slit stuck open. Looks like RH thread and nut damaged. Slits also had grease applied (again when manufactured). Optics look to be in good shape even though a high power source has been used (anodize burned off both slits), and the amount of grease used within. Grating #3 must have been added by BYU (I didn't have record of it in Novram).

Summary of Repair: 1. Replace all electronics. 2. Rebuild turret – (replaced one piece shaft & worm, lapped in gears). 3. Rebuilt both slits – (replaced drive screws and nuts. 4. Align & calibrate.

Notes: Prior to upgrade, turret was programmed as ½ step (.10nm precision max). Turret is now programmed microstep (.01nm precision).

Firmware Version: 3690

Technician: Steve Mong Date out: 5/12/2016