

C40 IMB Upgrade

10/30/2012

1. X-axis guider 1

- a. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
- b. US Digital E2 relative Encoder 1 each
- c. Panasonic SUNX Proximity Sensor GX-N12F 2 each

Y-axis guider 1

- a. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
- b. US Digital E2 relative Encoder 1 each
- c. Panasonic SUNX Proximity Sensor GX-N12F 2 each

Focus 1

- a. Haydon/Kerk Hybrid Linear Actuator Size NEMA 23 Part #: 57J47-05-003ENG 1 each
- b. Panasonic SUNX Proximity Sensor GX-N12F 2 each
- c. Air Cylinder, MRS-021.5-DXP Bimba 1 each
- d. Air Cylinder, MRS-022.5-DXP Bimba 1 each
- e. Air Cylinder, 0071 Bimba 1 each
- f. Position Sensors: Bimba MSKX 5 each

2. X-axis guider 2

- a. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
- b. US Digital E2 relative Encoder 1 each
- c. Panasonic SUNX Proximity Sensor GX-N12F 2 each

Y-axis guider 2

- a. TMG 5609L-0502 400 steps/rev NEMA 23 stepper 1 each
- b. US Digital E2 relative Encoder 1 each
- c. Panasonic SUNX Proximity Sensor GX-N12F 2 each

Focus 2

- a. Haydon/Kerk Hybrid Linear Actuator Size NEMA 23 Part #: 57J47-05-003ENG 1 each
- b. Panasonic SUNX Proximity Sensor GX-N12F 2 each
- c. Air Cylinder, MRS-021.5-DXP Bimba 1 each
- d. Air Cylinder, MRS-022.5-DXP Bimba 1 each
- e. Air Cylinder, 0071 Bimba 1 each
- f. Position Sensors: Bimba MSKX 5 each

3. Filter Wheel 1

6 position

Detent A microswitch Honeywell 311SM4-T 1 each

Detent B microswitch Honeywell 311SM4-T 1 each

TMG 5609L-0502 0.9 Degree, 400 Steps/Rev Hybrid Stepper, NEMA 23 1 each

Encoder: BEI-HS35F absolute hollow core 4096 or 8192 counts/rev 1 each

4. Filter Wheel 2

6 position

Detent A microswitch Honeywell 311SM4-T 1 each

Detent B microswitch Honeywell 311SM4-T 1 each

TMG 5609L-0502 0.9 Degree, 400 Steps/Rev Hybrid Stepper, NEMA 23 1 each

Encoder: BEI-HS35F absolute hollow core 4096 or 8192 counts/rev. 1 each

5. Calibration Lamp control

6. S-H lenslet control?

7. Galil DMC-4080(ISCNTL)-C012(P422)-I200(SSI,STEP)-I200(SSI,STEP)-D4040-D4040 1 each