

Technical Specifications

Korea Aerospace research Institute requires digital camera, lenses and accessories for the SPR (Stereo Pattern Recognition) measurement system. The SPR system is used to measure the deformation of rotating blades with tip speed over 220 m/sec.

1. High Speed Digital Camera (2 EA)

- 1) Resolution : more than 5000x 3750
- 2) Number of Pixels : more than 18.75 MP
- 3) Sensor Type : 35mm CMOS
- 4) GPIO/Triggering : 2 in 4 out / software, external (pulse or edge)
- 5) Interface : SFP+ 10GigE
- 6) Memory : more than 500 MB
- 7) Operating System : Windows 8 or 10
- 8) Operating Temperature : 0 ~ 45 degree C

2. Network Interface Card (1 EA)

- 1) 10GigE SFP+ Network Interface Card with dual port (2 cameras with Sync Capability)

3. Cable (2 EA)

- 1) SFP+ fiber cable with 50m length

4. Transceivers (4 EA)

- 1) Multi-mode fiber transceivers (connected to the ends of each cable 2 x 2 EA = 4 EA)

5. Lens Mount (2 EA)

- 1) Canon EF Mount with remote Iris and Focus control through API

6. Power Supplies (for camera and Iris/Focus control) (2 EA)

- 1) Plug in the wall power supply with breakout to the lens mount and breakout for trigger

7. Tripod Mount (2 EA)

- 1) Tripod mount adapter

8. Lenses

1) 28mm F1.8 (2 EA)

- Focal length : 28 mm
- Max. aperture : F1.8
- Main. Aperture : F22
- Mount : Cannon EF Mount

2) 35mm F1.4 (2 EA)

- Focal length : 35 mm
- Max. aperture : F1.4
- Main. Aperture : F16
- Mount : Cannon EF Mount