Small Wonder

TS-5
3D Production Rig

PERFECTLY ALIGNED WITH YOUR IMAGINATION
3ality’s TS-5 miniature beam-splitter offers the ultimate in both flexibility and precision. At a mere 17 pounds, the TS-5 can be used as a handheld, mounted on a Steadicam®, and will fit into those tight places that seem too small for 3D. The TS-5 uses 3ality’s proprietary software to provide quick and accurate set-ups, camera alignments that stay aligned, and matching zooms and smooth tracking on every shot.

**Dimensions**

- Overall Length: 425 mm (17”)
- Width - Small Mirror Box: 342 mm (13.5”)
- Large Mirror Box: 420 mm (16.5”)
- Height: 406 mm (16”)
- Frame Width: 245 mm (10”)

**Interaxial Range**

Symmetrical camera movement 0” to 2” each total 0” to 4” (100 mm)

**Convergence Range**

Convergence each camera -1° to 3°

Min. Convergence Distance @ 3° 2 ft

**Camera Type**

- Sony HDC-P1
- Sony T-Head Cameras
- Ikegami HDL-51
- Panasonic Box AK-HC1500G

**Lens Type**

- MAX. FRONT LENS DIAMETER
  - Small Mirror Box: 50 mm
  - Large Mirror Box: 90 mm

**Focal Length**

- SMALL MIRROR BOX
  - 2/3” Imager: 7 mm to + 100 mm
  - Super 35 Imager: 20 mm to + 100 mm

- LARGE MIRROR BOX
  - Super 35 Imager: 20 mm to + 250 mm

**Height/Pitch Adjustment**

- Height Range: ± 7.5 mm (15 mm total)
- Pitch Range: ± 3°

**Rotation**

Camera roll axis (turn round centerline) ± 2°

**Accuracy**

**Plane Flatness**

Absolute rail deviation end to end ± 0.05 mm

**Height Pitch Unit**

- Drive Accuracy: 3 µm
- Encoder Accuracy: 0.5 µm

**Interaxial Drives**

- Drive Accuracy: 3 µm
- Encoder Accuracy: 0.5 µm

**Encoder**

- Operating Temperature Range: 0°C to 55°C 32°F to 131°F

**Feedback Method**

Linear encoder, on final stage (post gearing, etc.)

**Drive Speed**

Interalxial: 50.8 mm/s (2”/s)

**Loads and Weight**

- Rig weight w/o camera: 10 kg (22 lbs)

**Power Requirements**

Voltage supply to Rig 12-18V DC @ 4.5A