

3. If the eyepiece has a fold down rubber eyecup, remove it.
4. Follow steps 4-8 under **Assembly and Fitting**

#### **Using the 41118 reducer sleeve**

1. Make sure the correct eyepiece is fitted securely to the telescope.
2. Remove rubber eyecup.
3. Unscrew the photoadapter and place the locking ring over the eyepiece.
4. Fit the reducer sleeve directly onto the eyepiece, making sure it's inner ridge makes contact with the outer ridge on eyepiece.
5. Place the photoadapter over the eyepiece and secure tightly to the locking ring.
6. Follow steps 7-8 under **Assembly and Fitting**

#### **Notes**

1. If you find the camera is at an odd angle when attached - loosen the locking ring, rotate the camera into line and re-tighten.
2. Focusing is facilitated on the telescope.
3. Camera may need to be operated in manual mode with shutter locks disengaged where necessary.
4. The high magnification to aperture ratios result in slower shutter speeds compared with conventional telephoto lenses so choose an ISO setting of 400. For 35mm SLRs 400 ASA film is recommended. If possible use a cable release or remote control to reduce camera shake when operating the shutter.

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**41111**  
**Photoadapter Push Fit 44**  
**User Guide**

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## Contents

41111 Photoadapter Push Fit 44  
41120 44~42 Step Ring  
41123 44~28 Step Ring  
Hexagonal key 1.27mm

The **41111 Photoadapter Push Fit 44** is designed for use with HDF T 40810, 40809, HDF 40862F & HR2 40933 eyepieces converting HR, GS, ES, MM3 & IS telescopes into long focal length telephoto lenses for telephotography or digi-scoping.

### Assembly and Fitting (all camera types)

1. Make sure the correct eyepiece is fitted securely to the telescope.
2. Set the eyecup to the down position.
3. Fit the correct step ring to the

photoadapter; 44~42 for SLR/  
compact system cameras, 44~28 for  
suitable compact cameras.

4. Pre-set the eyepiece magnification to minimum.
5. Place adapter over the eyepiece and push down until the internal wall contacts with the end of the eyepiece.
6. Hold the main section of the adapter secure and tighten the locking screw.
7. (SLRs & CSCs) Fit an appropriate T-mount between the photoadapter and the camera body.
8. (Compatible compact cameras) Connect the camera lens mount to the 28mm thread on the photoadapter.

### Focal lengths with HDF T 40810 and HR2 40933 eyepieces

<b>HR 66</b> - 1000mm	<b>HR 80</b> - 1350mm
<b>ES 80</b> - 1150mm	<b>ES 100</b> - 1500mm
<b>GS 52</b> - 650mm	<b>GS 665</b> - 900mm
<b>MM3 50</b> - 650mm	<b>IS 60</b> - 800mm
<b>IS 70</b> - 900mm	

1. Focal lengths listed are approximate and based on 35mm SLRs. Many SLRs and CSCs use different sized image sensors so a telephoto conversion figure must be calculated separately.
2. Focal length for HR2 40933 calculated at lowest magnification setting.

### Using other eyepieces

The photoadapter can be fitted to smaller diameter eyepieces by replacing the 44mm sleeve fitted as standard with either of the following:

- a. **41117 reducer sleeve 44~40** for connection to 40918S eyepiece
- b. **41118 reducer sleeve 44~37** for connection to HDF 40810F and 40809F eyepieces

F = Fold down rubber eyecup

### Using the 41117 reducer sleeve

1. Make sure the correct eyepiece is fitted securely to the telescope.
2. Unscrew the locking ring on the photoadapter, remove the 44mm sleeve and insert the 44~40 reducer sleeve. Re-connect and tighten the locking ring.