Components



The TSN-PA7 can be used with the TSN-880 and TSN-770 Series spotting scope and their zoom evepieces(TE-10Z,TE-11WZ).

Installation of the TSN-PA7 (TSN-880/770)



Remove the protective ring from the spotting scope accessory mount threads.



Thread the Inner Tube onto the spotting scope accessory mount threads.

Attach the zoom eyepieces (TE-10Z.TE-11WZ) onto the spotting scope.



_oosen the locking screw and insert the Outer Tube onto the Inner Tube.

After mounting the adapter securely to the spotting scope, tighten the locking screw.

⑤ Thread the KOWA camera mount (TSN-CM2) onto the Outer Tube.



The TSN-PA7 can be used with the KOWA TELEPHOTO LENS. It requires options TP-88EC1 and zoom evepieces(TE-10Z,TE-11WZ). KOWA TELEPHOTO LENS / SCOPE Option MODEL: PROMINAR 500mm F5.6 FL Prism Unit TP-88EC1 Protective ring 1 Remove the protective ring from the spotting scope accessory mount threads.

Installation of the TSN-PA7 (PROMINAR 500mm F5.6 FL)

⁽²⁾ Thread the Inner Tube onto accessory mount threads.

③ Attach the zoom evepieces (TE-10Z,TE-11WZ)

④ Loosen the locking screw and insert the Outer Tube onto the Inner Tube. After mounting the adapter securely to the scope. tighten the locking screw.

(5) Thread the KOWA camera mount (TSN-CM2) onto the Outer Tube. ⁶ Attach a camera to the KOWA camera mount.

TSN-PA7 & zoom evepiece



Focus with the focus knob of the spotting scope. Due to the extremely long focal length, it may be difficult to focus when the camera is attached to the scope. Due to the extremely long focal length, the use of a cable shutter release, remote control, or timer is recommended to eliminate shaking and image blur. Refer to the instruction manual of the digital camera for exposure and other settings.

The combined focal length of the system is below.

Specifications

Nodel	Mag.	Focal Length		F-number			Format	
		TSN-880/770	TELEPHOTO LENS 500mm F5.6	TSN-880	TSN-770	TELEPHOTO LENS 500mm F5.6	Full frame	APS-C
zoom eyepiece TE-11WZ	25X	1000mm	1100mm	12.4	14.2	12.5	0	0
	30X	1300mm	1450mm	14.8	16.9	16.5	0	0
	40X	1750mm	1900mm	19.9	22.7	21.6	0	0
	50X	2150mm	2350mm	24.4	27.9	26.7	0	0
	60X	2450mm	2700mm	27.8	31.8	30.7	0	0

Model	Mag.	Focal TSN-880/770		F TSN-880	-numbe TSN-770	er TELEPHOTO LENS 500mm F5.6	For Full frame	
zoom eyepiece TE-10Z	20X	970mm	1100mm	11	12.6	12.5	Х	0
	30X	1600mm	1800mm	18.2	20.8	20.5	0	0
	40X	2050mm	2300mm	23.3	26.6	26.1	0	0
	50X	2600mm	2900mm	29.5	33.8	33.0	0	0
	60X	2750mm	3000mm	31	35.4	34.1	0	0



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Camera Mount (T-Ring)

Kowa Optimed Deutschland GmbH Bendemannstrasse 9 D-40210 Dusseldorf Germany Phone: +49(0)211-542184-30 Facsimile: +49(0)211-542184-10 http://www.kowaproducts.com e-mail: scope@kowaeurope.de



Photo Adapter for TSN-880/770 series

TSN-PA7

Instruction Manual



Thank you for your purchase of Kowa's photo adapter. Before using this product we recommend that you read this instruction manual thoroughly in order to ensure proper setup and use.

Options

Universal Mount System

This universal mount system is used to connect a spotting scope to a single lens reflex camera for photography.

TSN-DA3







This is used to increase the height of the spotting scope when using a high position camera. Height:40mm

TSN-DA3 is for straight and angled spotting scopes.





TSN-DA3 st is for straight spotting scope only.

	Depth	Height	Width	Weight
TSN-DA3	485 mm	230 mm	130 mm	1200 g
TSN-DA3 st	400 mm	132 mm	130 mm	1100 g



This camera mount is a T2 screw mount using a male M42x0.75.

Find the appropriate mount by matching it to the camera manufacturer.

Models	DSLR Camera		
TSN-CM2-CE	Canon EF Mount		
TSN-CM2-N	NIkon F Mount		
TSN-CM2-K	Pentax K Mount		
TSN-CM2-MA	SONY A Mount		
TSN-CM2-FT	Four Thirds Mount		