



509 and 509-AC Universal Light Source Kits

Illumination for instruments and accessories

Our models **509** (battery powered) and **509-AC** (AC powered) light sources fit our various instruments and accessories to provide reticle or target illumination for alignment functions. Many of our optical tooling instruments are capable of performing alignment functions such as autoreflexion, collimation, autocollimation, colineation, and reticle projection. However, a light source is required to illuminate the reticle in all of these procedures.

Cool source lighting is provided by a white LED lamp which is almost as bright as our old fiberoptic light sources and which has a 100,000 hour life. The light source is powered by three common button cell batteries (included) that provide 100 hours of illumination. The light source casing is made of stainless steel and incorporates a water resistant seal, making it tough enough for your most challenging industrial environments. The twist-on, twist-off feature means there are no switches or wires to break. Its compact size fits easily in your pocket, instrument case or tool box. You can even plunge a transit with a 509 light source installed.



Alternatively, we offer the model 509-AC light source when the freedom and convenience of battery operation is just too much to bear. The 509-AC includes a lightweight multi-input voltage (100-240V) transformer with multiple plug configurations, which allows this unit to operate worldwide.

To use this light source as a target backlight on our 521-B spherical mount, order accessory 509-SMB. To use this light source as a target backlight for Taylor Hobson's 112/376 spherical mount, order accessory 509-SMTH.

Included Components:	
Qty	Description
1	LED light source with 100 hours burn time on three button cell batteries
1	Adapter for transits and levels
1	Adapter for alignment telescopes and collimators

Note: This light source fits most current and older models requiring illumination. It replaces the 500, 501, 502, 508 and 5511 light sources (For complete compatibility information, please see "May be used with" section below). Contact us regarding adapters for instruments which require a specialized light housing.

Batteries are included.

Specifications

LED lamp life: 100,000+ hours

Replacement Batteries (Qty 3): LR44, PX76A, A76, or V13GA

Batteries: Alkaline Button Cell 1.5V (qty 3, included with unit)

Weight (approx): Unit, 0.25 lb (0.1kg); Shipping weight, 1 lb (0.45kg)

Battery life: 100 hours

May be used with...

- 76-RH Transit (cross scope)
 - 193-L Illuminated Right Angle Swivel Eyepiece Adapter
 - 196-1 Combination Eyepiece Unit
 - 271 Tilt Collimator
 - 272-15 Multiple Target Collimator
 - 381 Series Alignment Telescopes
 - 1241 or 2240 Series Combination Eyepiece (if manufactured before January 2008, requires adapter 15307)
 - 2022, 2024, 2062, and C47280 Alignment Telescopes (except 2024BL)
 - 2030 or 2024BL Alignment Telescope (if manufactured before January 2008, requires adapter 15266)
 - 509-SMB Adapter (to use with 521-B Sphere Mount)
 - 509-SMTH Adapter (to use with Taylor Hobson's 112/376 Sphere Mount)
- May also be used with these discontinued products:
- 191 Combination Eyepiece Unit
 - 192 Autocollimation Unit
 - The following discontinued alignment telescopes: 81 (all versions), 82, 83, 83-1, 83-M, 83-1-M, 83-1-3, 83-1-4, 83-3, 83-4, 83-10, 83-13
 - 1211 Autocollimation Conversion unit
 - 4111 Autocollimation Eyepiece
 - 5511 Autocollimation Illumination unit