

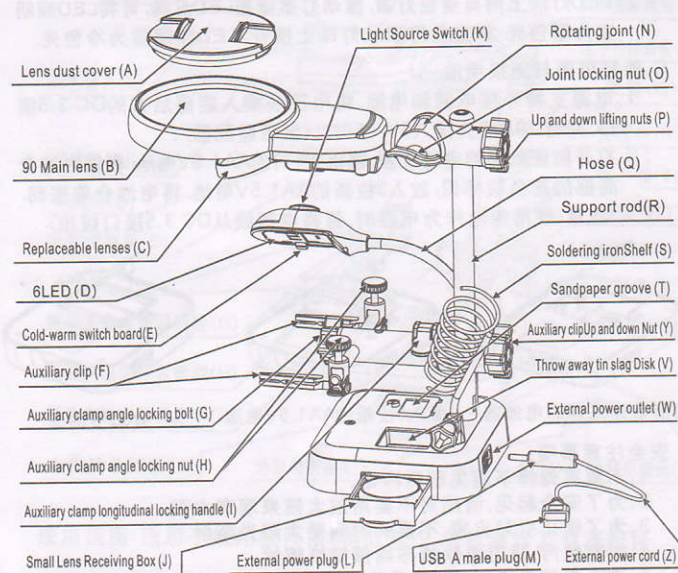
MG16129DC

# Auxiliary Clamp Magnifier With Switchable Cold and Warm Light LED

Lens diameter	Combination magnification	Lens magnification	Focal length
90mm		3.5x	142mm
34mm		5x	100mm
34mm		8x	62.5mm
	3.5x+5x	8.5x	58.8mm
	3.5x+8x	11.5x	43mm

**Product Description:**

This product is a LED lighting auxiliary clip magnifier with warm and cold color temperature. It can be applied to model making, circuit board welding and other work to improve work efficiency.



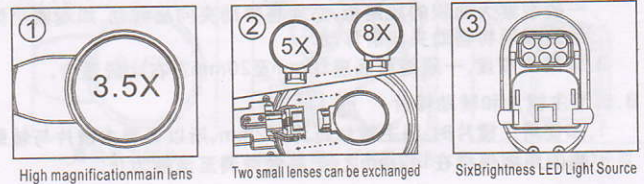
**Scope of application:**

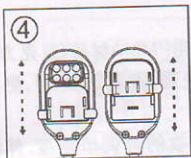
Applicable to circuit board welding, model making, mobile phone maintenance and electrical maintenance.

**Product Features:**

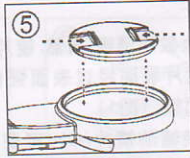
1. High magnification primary lens (B), clear magnification effect, natural. The lens is made of PMMA material (acrylic), lighter weight and easier to use. The surface of the lens is strengthened by surface treatment, and its hardness reaches 5H. It is more wear-resistant and can effectively prevent the lens from scratching. (Fig. 1)
2. Two interchangeable auxiliary lenses with different magnification (C). One adjustable angle and retractable auxiliary lens can be installed. It can be used with the main lens to improve the magnification. The idle lenses can be placed in the base lens storage box (J). (Fig. 2, Fig. 12)
3. The light source consisting of six brightness LED beads (D) can adjust the distance and angle of illumination light freely by using magnifying glass and illumination separation design. It can also be used as desk lamp illumination alone to approach natural light and reduce fatigue. (Fig. 3)
4. LED lighting function can switch between high light and soft light (K), which can meet the lighting requirements under different light conditions. (Fig. 3)
5. The LED lamp is equipped with a discolored lamp shade (E), which can change the color of the light by sliding lamp shade according to the need. (Fig. 4)
6. There is a lens cover on the lens (A). When no magnifying glass is used, dust cover can be covered to keep the lens clean and prevent wear. (Fig. 5)
7. The frame bracket can be adjusted to adjust the height and angle of the lens for easy observation and lighting. (Fig. 6)
8. Two auxiliary clamps adjustable angle wheel (G), left and right width adjustment (H), front and rear position adjustment (I), and up and down height adjustment (Y), etc., which greatly facilitates user's work. (Fig. 7, Fig. 8)
9. The base is equipped with a soldering iron rack (S), a sandpaper trough (T) and a tin disc (V) to meet the daily welding needs. (Fig. 9)
10. Supports 110V-240V AC power supply (W, M, Z) and 3 AA 1.5V batteries. (Fig. 10, Fig. 11)
11. The base of the soldering iron frame is equipped with slider lock, which can fix the soldering iron frame more firmly and prevent rotation caused by misoperation. (Fig. 9)
12. The base has an auxiliary lens storage box (J). It can be used to store auxiliary lenses. (Fig. 12)

**Schedule:**

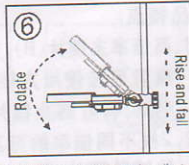




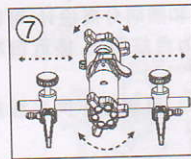
LED lamp with discolored lampshade



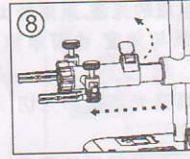
Main lens with dust cover



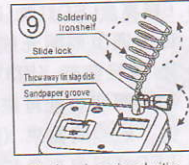
Lens height and angle can be adjusted



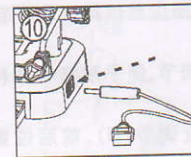
Adjustable left and right position and up and down position of auxiliary clamp



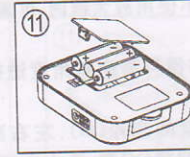
Adjustable front and rear position of auxiliary clamp



The base is equipped with a soldering iron frame, abandon tin slag disc, sand paper



External Charging Function



Three AA 1.5V batteries



Small Lens Storage Box

### Method of operation:

#### A. Adjusting the Auxiliary Clamp

1. When adjusting the angle and width of the auxiliary clamp, first loosen the elastic fastener on the auxiliary clamp, according to observation. The size of an object (e.g. a circuit board) adjusts the distance and angle between two auxiliary clamps, such as a circuit board that is too large. Small, you can use an auxiliary clip, or you can remove one of the auxiliary clips and put it in another. An auxiliary clamping edge can increase clamping and stability.
2. The auxiliary clamp can move forward and backward, and the required position can be determined according to the size and area of the circuit board. In general, when observing a large area of circuit board, the auxiliary clamp must be moved backwards, such as observing a small size. The circuit board shall move the auxiliary clamp forward.
3. The height of the rotary auxiliary clamp is generally about 10 mm to 20 mm away from the base.

#### B. Adjusting primary and auxiliary lenses

1. When using the primary lens, because the focal length of the primary lens is 142 mm, the distance between the primary lens and the auxiliary clamp should be kept between 142 mm, and then fine-tuned until clear.

2. If 5x auxiliary lens is used, the object must be observed through the main lens 3.5x, and then through 5x auxiliary lens, which determines the multiplier of the primary mirror and the secondary mirror is 8.5x, and the focal length is 58.8mm. The distance between the primary mirror and the auxiliary mirror and the auxiliary clamp should be kept at about 58.8mm, and then fine-tuned until it is clear. Then the auxiliary lens can be telescoped and moved according to the position of the observed circuit board.

3. If 8-fold auxiliary lenses are used, the adjustment method is the same as the above.

#### C. Removal and Installation of Lens Cover

1. Two fingers press the lock buttons at both ends of the lens cap and remove the lens cap.
2. Two fingers hold the lock buttons at both ends of the lens cap respectively. Place the lens cap on the lens and loosen the lock button to close the lens cap.

#### D. Adjusting LED Brightness and Cold and Warm Colors

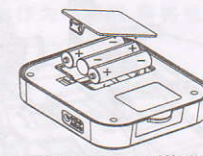
1. If you feel that the light source is insufficient, turn on the LED light. There are two kinds of brightness switching. Press the power switch key located above the LED light source cover, turn on the soft light, press the switch again, and switch to the high light. The third time, turn off the power supply.
2. LED beads are equipped with a discolored lampshade, which drives the lampshade to cover the LED beads. It can change the LED lighting into warm light. Push the discolored lampshade away from the beads, and the LED lighting becomes cold light.

#### E. External Power Supply and Battery Replacement

1. Power supply supports external power supply and battery. Insert power cord into DC 3.5 interface behind base, and connect USB plug to 5V-50Hz (power adapter).
2. Open the battery compartment cover at the bottom of the base and take out three old AA 1.5V batteries. According to the positive and negative identification at the bottom of the battery compartment, put three new AA 1.5V batteries into the compartment cover and return the battery compartment cover. (Note: When using the battery as power source, pull the power cord out of the DC 3.5 interface)



Open the battery cover at the bottom of the base



Loading 3 new AA 1.5V batteries



Close the battery cover

#### Safety precautions:

1. Do not put the magnifying glass in the direction of direct sunlight, so as not to cause fire.
2. Do not use the magnifying glass to observe the sun so as not to burn your eyes.
3. Please clean the lens with a soft cloth or a mirror paper.
4. Lenses can also be cleaned with a small amount of detergent and wet cloth, and then wipe with clean wet cloth.
5. Do not use alcohol, gasoline and other chemical liquids to wipe lenses and shells.