KRiS®

NEW

Multifuctional Illuminated Magnifiers

(Upto 10X)

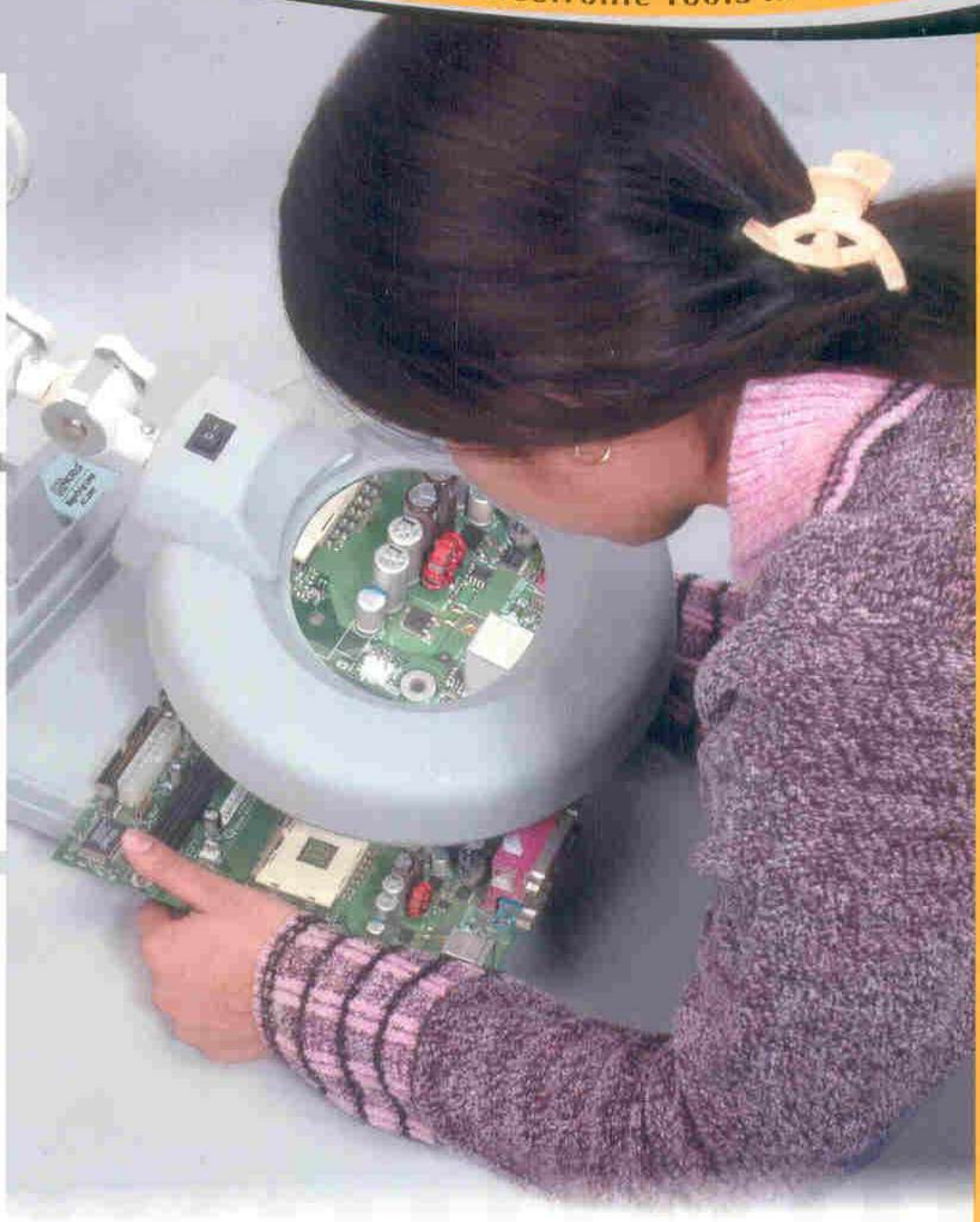
KRiS Brand manufacture the most Professional Electronic Tools in the World

K-01

K-02

K-03

K-04



- **Hand Free View**
- **Reduce Eyestrain**
- **See Greater Details**

New Generation Magnifiers

UNDERSTANDING MAGNIFIER LAMPS

To many of us, magnification products are an essential part of our daily lives. No matter what the application is for, a magnifier enhances one's ability to perform or enjoy a task or hobby. Some of the more common applications where magnification if critical include :

Reading & Writing, Jewelry Repairs and Production, Electronic Repairs and Production, Eyeglass repairs and Production , Scientific Studies, Sewing and needlepoint, Embroidery, Model Building etc.

- **KRiS** presents the following information to aid professionals as well as our average person in unlocking the secrets of magnification and to understand how one can make magnifier lamps works for him.

TERMS & DEFINITIONS :

- **Instant Start / Flicker free Ballast :** Flourescent light is the energy source of choice for most magnifier lamps. Most lamps in the market today use traditional magnetic coil ballast. These type of ballast cannot prevent flourescent bulbs from flickering at the frequency of the operating voltage and cause headache and fatigue. Our specially designed ballast eliminates all these problems. It is a perfect tool for demanding professionals and those who care about their health.
- **Focal Length(f) :** The image distance for an object infinitely far away, or the object distance that produces an image infinitely far away. To put it in another way, the focal lens is the distance from the center of the lens to the viewed object that offers the maximum magnification without distortion. It is important to remember that as magnification increases, the focal length decreases.
- **Diopter (d) :** A unit for measuring the light bending or refractive power of a lens, the reciprocal of the focal length of the lens expressed in meters. To find the diopter of a magnification lens, follow these steps. With the eyes 10 inches above the lens, move the object to be viewed to the point the greatest distance into 1 meter (39.37 inch). The result is the diopter of the lens e.g., If the object is 13 inches away then it is a 3-diopter lens (39.37/13=3d). Each diopter increases the size of the viewed object by 1/4 (25%) when the object is at its full focal length from the lens.
- **Field of View :** The distance across the lens surface to which the viewer brings both his eyes. It is important to note that as magnification increases, viewing areas and focal length decreases.
- **Magnifications (x) :** The degree to which the viewed object is enlarged. Magnification is usually expressed by a number followed by an X, the symbol used to express power or the size of the object in relationship to its actual size. The formula for calculating magnification power is :

  MP = diopter / 4+1

  Example : A 40d lens has a MP of 11x or the object is 11 times larger.
- **True Color Lens :** Many magnifying glasses today are made from materials that come naturally with a greenish tint. This distorts the natural color of the object. Our true color lens uses a special material so as to eliminate any color changes that is causes by the glass itself and provides near perfect color rendition. This type of lens is specially suited for medical or professional applications.

MODEL	INPUT VOLTAGE	MAG. X	POWER	SIZE OF LENS
K-01	220V	5x	14w (7+7)	175 x 110mm
K-02	220V	10x	22w	∅127mm
K-03	220V	3x	12w	∅86mm
K-04	220V	10x	22w	∅127mm

TIPS ON PROPER USE OF A MAGNIFIER

To take best advantage of the comforts built into illuminated magnifiers, please keep these points in mind :

1. Use both eyes.
2. Position the lens so that it is a proper distance from the work area, yet close enough to your eyes (about 8" to 10") so that you have the maximum magnification without distortion. Do not lean back away from the lens to increase magnification.
3. Chair height and work surface should be positioned so the operator can maintain good posture while working.

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