



## These Colors Run Deep... **Proudly American Made**





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The Green-Lite<sup>™</sup> series from O.C. White is the most energy efficient, highest output and longest lasting line of inspection lighting systems in the world. These exceptionally designed products offer important features and benefits available only from O.C. White.

### **Superior Technology**

Rather than clusters of old style 5mm LED "bottles" favored by low cost overseas manufacturers, Green-Lite™ products employ next generation "surface mount" LEDs that produce more light with less glare, consume less power and last longer. The light output of our 8-watt LED microscope ring light is comparable to a 150 watt halogen.

With our new Green-Lite<sup>™</sup> LED magnifiers, there is no comparison worldwide. We have easily achieved over 4x the brightness of a standard fluorescent magnifier. The blended white 6000° Kelvin light is easy on the eyes, provides excellent shadowless lighting, and the output level is adjustable – simply and precisely – for maximum operator comfort.

Green-Lite $^{\text{\tiny TM}}$  products are auto-switchable, so they can be used worldwide simply by changing the end power cord.

### **Faster Return on Investment**

Your investment in new Green-Lite<sup>™</sup> LED technology quickly pays for itself through lower operating costs, longer lighting lifespan and improved productivity.

A lower total cost of ownership provides the greenest solution of all!

### **Green Long Before it was Fashionable**

Since our inception, O.C. White has designed products that put light where it's needed, reducing the need to light large workspaces. We patented fluorescent dimming technology that reduces glare and consumption of electricity. Unlike our competitors, O.C. White products are built to last years and are easily repaired, if ever needed.

### **Green-Lite<sup>™</sup> Advantages**

- · Beautiful slim designs
- Newest LED technology
- · Unrivaled energy savings
- · Lumen output control
- Superior arms and holding power
- Higher magnification with greater clarity
- · All metal construction for ESD safety

- · Fast return on investment
- 5 year/ 50,000 hour pro-rated LED warranty
- · Lower total cost of ownership
- Made in the USA with unmatched
   10 Year Mechanical Warranty
   Best in the Business Since 1883







## **Green-Lite**<sup>™</sup>

Equipped with next generation, surface mount LEDs, these innovative designs create



82400-4 (Shown in optional Blaze Red finish)

### **Lighting Features**



- Combination white light/ultraviolet (395nm) now available in Rectangular models
- Over 4x the lumen output of a standard magnifier
- Reduced glare, heat and energy consumption
- Multi-angle LEDs for shadowless lighting at a full range of focal lengths and heights
- User controlled LED groups shine desired level of light exactly where required
- Superb dimming software via convenient, reliable membrane switch
- Built in energy management system & lighting timer

### **Optical Features**

- New 12 pc. optional frosted diffuser kit for all Green-Lite<sup>™</sup> magnifiers (#13225)
- Precision ground, crown white optical grade glass
- Largest lenses in the industry
- Standard 4 Diopter (2x) lens O.C. White exclusive!
- Optional 5 Diopter (2.25x) lens on round models
- Three lens sizes to choose from
  - 7" x 5.25" rectangle
  - 7.5" round
  - New 6" round with a 44% larger viewing area than competitors 5" round magnifiers

O.C. White exclusive at no extra charge!

**Standard Finishes:** Shadow White Carbon Black Optional Finishes: Blazing Yellow **Brilliant Orange** Spectre Blue Blaze Red Racing Green Silver Charcoal Mist Medical White



### **Electrical Features**

- Extremely safe, low voltage (15v) power supplies are auto-switchable with worldwide approvals
- IEC plug design allows for simple plug-and-play cord change anywhere in the world
- Auto shut off at 4 hour, 5 minute intervals to prevent energy waste while users are away (user activated after delivery)

### **Mechanical Features**

- High quality die cast aluminum shades and all metal components for ESD safety
- Patented "Elite" arms are slim but have the greatest holding power of any arm of this type in the world
- Standard 43" arm reach

### Warranty

- 5 years/ 50,000 hour pro-rated LED warranty
- Made in the USA with unmatched 10 Year Mechanical Warranty
   Best in the Business Since 1883

## Patenteu #5,757,142 Vision-Lite® High Output LED or Dimmable Fluorescent Magnifier

The largest and clearest magnifier on the market features excellent image clarity, lighting control and energy efficiency. **Proudly Made in the USA.** 

Our original Green-Lite<sup>™</sup>! The Vision-Lite<sup>®</sup> is the world's first and only patented dimmable fluorescent illuminated magnifier. Our newest generation now features an exclusive surface mount LED array for the absolute highest intensity, largest lens, best performing magnifier available anywhere in the world!

The LED Vision-Lite<sup>®</sup> has all of the other features of our Green-Lite<sup>™</sup> models, and is





- 7.5" x 6.25", 3 Diopter (1.75x) TRUE rectangular lens for zero distortion
- Extremely safe, low voltage (15v) LED model features auto-switchable 100-240v (50/60hz) design for worldwide use
- Fluorescent model features 100-25% dimming while LED model features 100-5% dim with LED quadrant control for precision contrast lighting
- Crown white, optical grade glass lenses provide the highest resolution images
- Rugged all metal construction for ESD safety
- Table edge clamp standard with screw down or weighted base options available
- Also available in optional Green-Lite™ colors
- Made in the USA with unmatched 10 Year Mechanical Warranty
   Best in the Business Since 1883





## Standard 5" LED Green-Lite™

Our industry standard 5" Magnilite®, now available with an energy efficient, long lasting LED array. This American made, ESD safe magnifier has been the industry standard since the late 1950s. With the newest LED upgrade, as well as slim shade design, this magnifier is ready to be the standard for another 60 years. Standard magnification of 3 Diopter (1.75x) as well as optional 5 Diopter (2.25x) available.

- Exclusive replaceable 5000K LED bulb provides high light output and long lifespans
- Crown white optical grade, 5" round lens
- 3 Diopter (1.75x) standard with 5 Diopter (2.25x) available
- Rugged all metal construction for ESD safety
- Table edge clamp standard with other mounting options available
- Made in the USA with unmatched 10 Year Mechanical Warranty Best in the Business Since 1883

## Big Eye<sup>™</sup> T5 Fluorescent Magnifier

Our famous Big Eye<sup>™</sup> is one of our largest Magnilites<sup>®</sup>! The crystal clear 7.5" diameter lens is made of optical quality glass. Configured standard with our new 4 Diopter (2x) lens, but also available with a 5 Diopter (2.25x) optical quality lens. The Big Eye<sup>™</sup> has all metal construction, which affords ESD safety by design. The slim, spun aluminum shade provides low profile viewing, with superb weight savings. **Proudly Made in the USA.** 

- Crown white optical grade, 7.5" round lens for highest resolution images
- 4 Diopter (2x) standard, 5 Diopter (2.25x) optional O.C. White exclusive!
- Shadowless 10", slim T5 bulb for uniform lighting at any level
- Rugged all metal construction for ESD safety
- Table edge clamp standard with other mounting options available





 Made in the USA with unmatched 10 Year Mechanical Warranty Best in the Business Since 1883



## **Exclusive ESD Safe Ergonomically**

Our newest family of microscopes, the Ergo-Zoom® series utilizes a common main objective optical design. Standard models are paired exclusively with ergonomically adjustable eyepieces!



The Ergo-Zoom® series from O.C. White is setting the new standard for inspection performance. The Ergo-Zoom® series comes in three magnification levels, and is completely modular so accessories can be added as you see fit.

Our Ergo-Zoom® series is based around a common main objective optical design, which offers a crisper, distortion free image, as well as a much flatter field of view. The end result is the highest quality image you can achieve out of a microscope. Combine these excellent optical characteristics with the ergonomic adjustment, and large range of features, and you have a microscope series that is at home in any industry.

O.C. White exclusively offers ergonomically adjustable eyepieces standard. No one else in the world offers this, it is always an upgrade. The eyepieces are adjustable from 0 to 35° on the fly, and are usable anywhere in between. This adjustment allows for total microscope manipulation.



Angular Adjustment Standard on all Ergo-Zoom® Microscopes

## Adjustable Microscope Systems

No one else can bring you such value, performance, and versatility, all in one package... at an extremely competitive price!

- ESD Safe and RoHS Compliant
- Eyepieces adjust from 0 to 35° on the fly for total comfort
- · Ideal for operators who use a microscope all day long
- Three standard magnification zoom levels (with 1x lens):

EZ-850 8-50x Mag. (up to 200x with options)

EZ-864 8-64x Mag. (up to 256x with options)

EZ-880 8-80x Mag. (up to 320x with options)

- · Large selection of eyepiece and objective options
- Stainless steel ball bearing glide arms provide smooth movement and precise placement

- · Striking matte black ESD safe coating
- Can be configured as standard binocular, trinocular, or dual trinocular microscope due to modular CMO design
- HD 1080p and USB 2.0 digital imaging packages available
- Unequalled quality at a very reasonable cost
- 5 Year Mechanical Warranty
- 230v versions available, consult factory



The Ergo-Zoom® series comes in three standard magnification levels; 8-50x, 8-64x, and 8-80x. Optional eyepieces and objectives are available to increase these ranges up to 320x. As this microscope series is modular, any of the three microscope configurations can be converted into a trinocular microscope with the addition of the EZ-Splitter. No longer is your microscope 'obsolete' when you need to expand the microscope's capabilities!

Also available with this series is the new fixed 20° eyepiece head. The combination of long eyepiece tubes, and shallow angle, provide superb ergonomic comfort and performance. No other microscope series affords such functionality and interchangeability options.

# **Ergo-Zoom® Trinocular Microscope Systems**

No longer is your microscope 'obsolete' if you decide to add video inspection capabilities down the road. With choice of single or dual monitor support, the Ergo-Zoom® series is the most flexible on the market!

Only the highest quality digital cameras will work with microscopes of this caliber. O.C. White offers two digital cameras, each featuring a sophisticated, yet easy to use interface. The standard USB2.0 digital camera is 2 Megapixel  $(1600 \times 1200)$ , and our optional model is 5 Megapixel  $(2580 \times 2048)$ . The small form factor of our cameras allows for maximum clearance beneath

above-bench shelving, and simple USB2.0 plug and play design allows for near universal installation on any PC or laptop.

Past the powerful specifications of our cameras, the heart of the digital inspection package is our user friendly Image Acquisition and Measurement software suite.

Included standard with either resolution digital camera, this suite features a very intuitive GUI, and has a host of standard features:

Still Image Capture

- Video Capture
- Measurement (featuring 13 measurement parameters)



\*Computer not included\*



2 Megapixel Digital Ergo-Zoom® Package on Ball Bearing Base with LV2000-B LED Ring Light

- On Screen Reticle with full calibration performance out to six decimal places
- On Screen Annotation and Symbol placement
- Split Screen capability as well as Picture-in-Picture functionality



**NEW HD 1080p** Ergo-Zoom® Package with 22" HD LED Monitor on Ball Bearing Base with LV2000-B LED Ring Light

For production use, the **NEW HD 1080p** Inspection pairs our **industry exclusive** High Definition 1080p digital camera with a sleek 22" HD LED monitor. No other manufacturer offers such a high resolution camera for real time inspection. Video is passed over HDMI to our exclusive energy saving LED monitor. Available on both traditional Ergo-Zoom® and fixed 20° models.



\*Computer not included\*



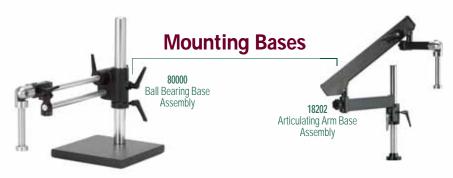
**TKEZ-850-LV2** 

Shown with Optional Dual Trinocular Video Splitter and both **HD 1080p** and USB2.0 Inspection Packages



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# **Ergo-Zoom® Microscope Configuration Chart**



### **Optical Components**



**Please Consult Factory for Imaging Options** 

### Illumination







## Industry's First and Only "Green"

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### OC White ProZoom® 6.5 Microscopes

The ProZoom® 6.5 family of microscopes provides the largest standard working distance, largest magnification range, and largest eyepieces available on a stereo zoom microscope. The ProZoom® 6.5 microscopes outperform the competition, even those at double the cost! There truly is no equal.

The ProZoom® 6.5 series of Binocular and Trinocular microscopes are the highest performing stereo microscopes on the market. With a standard magnification range of 5-65x, and an optional range of up to 390x, there is no inspection task this microscope can't tackle. Due to the design, it is also affords the largest standard working distance from any manufacturer. Our trinocular model, PZT-6.5 is a "true" trinocular. What this means is that you do not lose any functionality of eyepieces when using the video port. Low end import competition forces you to choose... both eyepieces or one eyepiece and video.

The ESD safe design of this microscope is due to all metal construction. Many imported microscopes include molded plastic components, or topical ESD coatings that will degrade over time. The ProZoom® 6.5 series is ESD safe by construction, and will stay ESD safe over its lifetime.

- Standard magnification range 5-65x (up to 390x with options)
- Super wide 28mm high eye point and wide field eyepiece
- Eye tube inclination of 45°, and main body can be rotated 360° in holder
- 190mm of working distance with .5x objective lens
- ±6 Diopter adjustments on eyepiece tubes
- Interpupillary distance adjustment range is 52mm~76mm
- Microscope and base assembly features rugged all metal construction for ESD safety



- Trinocular package includes .3x CCD adapter
- New HD 1080p or 2 Megapixel Digital Inspection packages available
- · Heavy duty ball bearing glide arm base assembly standard
- 5 Year Mechanical Warranty, 1 Year Electrical/Video Warranty



**NEW** ProZoom® 6.5 HD 1080p Package with 22" HD LED Monitor on Ball Bearing Base with LV2000 LED Ring Light



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For all trinocular models, we offer a choice of our **industry exclusive HD 1080p** High Definition or USB2.0 Digital Imaging packages. Our **NEW** High Definition 1080p digital camera comes paired with our new, sleek 22" HD LED monitor for both high performance real time imaging, and low energy use. This real-time viewing package affords not only high definition imaging, but



ProZoom® 6.5 2MP Digital Trinocular Package on Ball Bearing Base with LV2000 LED Ring Light

on Ball Bearing Base with LV2000 LED Ring Light

also superb color rendition and contrast detail for clarity that cannot be matched. Our **NEW** 2 Megapixel (1600x1200) USB 2.0 camera with Image Acquisition & Measurement Software Suite compliments the line, and is an excellent choice for quality analysis engineers or end of line documentation. Whichever way you go, you are sure to get incredible performance, for an incredible price.



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## **ESD Safe Microscope Systems**

### O.C. White ProZoom® 4.5 Microscopes

The ProZoom® 4.5 family of microscopes combine durability, performance, and low cost in a way that can only truly be appreciated when used... and used hard! This workhorse of a microscope has all of the magnification performance of much more expensive microscopes, with the rugged dependability that we have hung our hat on for over 129 years.

Standard throughout all O.C. White microscope packages, is our heavy duty, double ball bearing arm base assembly. This rugged piece provides effortless motion across the work surface, while maintaining pinpoint accuracy once locked. It also comes standard with a grounding provision on the rear of the base.

The ProZoom® 4.5 series from O.C. White has a standard magnification range of 7-45x, ESD safety, and a robust build that rivals much more expensive microscopes. With optional lenses and eyepieces, this microscope series can reach up to 225x. With incredible reliability, many optional lenses available, and numerous configurations, you are tough pressed to find a configuration that won't fit your needs.



TKSZ-LV2
ProZoom® 4.5 Stereo-Zoom Binocular Package
with LV2000 LED Ring Light



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- $\bullet$  Standard magnification range 7x 45x
- Superb large 22mm 10x eyepieces
- .5x objective lens included standard
- Excellent resolution
- 90-250mm working distance depending on objective used
- ±5 Diopter adjustments on eyepiece tubes for ultimate clarity
- Eye tube inclination of 45°, and main body can be rotated 360° in holder
- Rugged all metal construction for ESD safety
- · Heavy duty ball bearing arm base assembly standard
- With optional accessories, can achieve up to 225x
- 5 Year Mechanical Warranty



ProZoom® 4.5 Stereo-Zoom Binocular Package on Articulating Arm with LV2000-B LED Ring Light

## MacroZoom Video Inspection Package

The MacroZoom Video Inspection packages are uniquely qualified to inspect anything. This specialized lens system afford both high magnification, up to 60x, as well as the unique ability to allow for 12+" of working distance. You cannot find such versatility anywhere else.

The most innovative lens inspection system on the market! Our MacroZoom video inspection system affords high magnification, as well as the ability to capture huge fields of view and large working distances. No other product can compare.

Our variable focal lens system allows for 'on the fly' focus adjustment. Simply position the lens at the exact working distance you require, and with a simple turn of the lower focal body, your lens is focused for precision inspection. Constructed with an adjustable aperture control, not only does this lens excel in low light situations, it can also be adjusted for increased contrast and reduced glare.

Included standard with this package is our 'close up' (under 12" WD) lens. At distances above 12", you simply remove the 'close up' lens from the lower side of the package, and allow the lens to use ambient light for its illumination. With our sophisticated imaging accessories, you are assured quality images.

 $The\ MacroZoom\ video\ inspection\ packages$ 

are available in a choice of our **industry exclusive HD 1080p** High Definition or USB 2.0 Digital Imaging packages.



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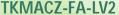
Our **NEW HD 1080p** High Definition digital camera comes paired with our new, sleek 22" HD LED monitor for both high performance real time imaging, and low energy use. This real-time viewing package affords not only high definition imaging, but also superb color rendition and contrast detail for clarity that cannot be matched.

Our digital packages are available standard with a 2MP (1600x1200) USB 2.0 camera. Our 2 Megapixel (1600x1200) USB2.0 camera with Image Acquisition & Measurement Software Suite is standard, but a 5 Megapixel (2580x2048) model is available optionally. The small form factor of our cameras allows for maximum clearance beneath above-bench shelving. Simple USB2.0 plug and play design allows for near universal installation on any PC or laptop.

TKDMACZ-LV2

MacroZoom 2 Megapixel Digital Inspection Package on Ball Bearing Base with LV2000 LED Ring Light

\*Computer not included\*



NEW MacroZoom HD 1080p Inspection Package with 22" HD LED Monitor on Articulating Arm with LV2000-B LED Ring Light





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Past the powerful specifications of our cameras, the heart of the USB2.0 digital inspection package is our user friendly Image Acquisition and Measurement software suite. Included standard with either resolution digital camera, this suite features a very intuitive GUI, and has a host of standard features:

- Still Image Capture
- Video Capture
- Measurement (featuring 13 measurement parameters)
- On Screen Reticle with full calibration performance out to six decimal places
- On Screen Annotation and Symbol placement
- Split Screen capability as well as Picture-in-Picture functionality

## Micro-Lite® LED Illumination





### Micro-Lite® LED Illumination

Perfection? We think so. Our LV2000-B satisfies three of the biggest complaints about microscope illumination... long life span, low operating costs, high lumen output. Combined with the fact that it is ESD Safe, there is no reason to buy any other LED ring light! **Proudly Made in the USA**.

The Micro-Lite® LV2000-B (Black) is our newest ring illuminator. It features the newest surface mount LED technology that is paired with our exclusive design criteria, to make the highest performance, longest operating, lowest cost LED ring illuminator sold today! The days of having to buy replacement bulbs are a thing of the past!

Our ESD Safe LV2000 series features instant-on performance, with zero flicker. It is fully dimmable, from 100-5%, with an integrated dimming switch on the shade. Our exclusive design also allows for all circuitry to be hidden inside the shade. All other competitors rely on desktop controller boxes for their dimming units... another Micro-Lite® advantage!

Our exclusive heat management system ensures supreme light output, for many years to come. The special thermal transfer system quickly and efficiently cools the LED array, for the longest life span in the industry. We are the only manufacturer to invest such extensive time and money into the development of the world's best LED ring illuminator.



LV2000-B

- Custom ESD Safe polymer eliminates any static build up
- 2.35" (60mm) mounting ring diameter optional 66mm mounting now available
- 9 LED surface mount array with exclusive thermal management system
- 5000K Color Temperature Standard
- New optional 3500K Color Temperature Model (LV3500-B)
- Output greater than a 150 watt fiber optic
- Exclusive larger illuminated area no small "hot spot"
- Flicker free and dimmable from 100 5%
- No bulky desktop controller box
- 120-240v (50/60hz) auto switchable power supply with worldwide approvals (cord change required)
- Optional adapters available for most microscopes on the market today
- 5 Year / 50,000 Hour Pro-Rated Warranty



diverseelectronics.com sales@diverseelectronics.com







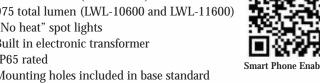
### **Ultraflex® LED Machine Lighting**

Long Life, High Output, and Flexibility meet in these adjustable LED work lights. For precision illumination, you cannot go wrong with these Ultraflex® LED Arrays. Available in eight styles, they are setting the new standard.

For any machine illumination application that demands the highest spot-light intensity as well as near limitless positioning possibilities, while operating in the most challenging work environments, our Ultraflex® LEDs are up to the task. Our Ultraflex® 6 spot LED features a 18W LED array, that has a total output of 975 lumens. These fixtures are rated IP65, and featured a sealed design for no impingement of water, synthetic, and petroleum based fluids.

Available in both articulating arms, and 'head only' configurations, you have options for installation. The electronic transformer is built into the base for protection, and is easily accessible through the underside of the lamp. The 120v version features a 3 prong grounded plug. The 24v DC versions are shipped with wire leads for direct connection to your machine.

- 120v or 24v DC
- 6 ft., 3 prong molded cord
- Two arm styles available
- 18w LED array
- · CE certified
- Total light output: 490 total lumen (LWL-11300) 975 total lumen (LWL-10600 and LWL-11600)
- "No heat" spot lights
- Built in electronic transformer
- IP65 rated
- · Mounting holes included in base standard





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### OC White Fluorescent Longline® **Linear Machine Illumination**

Now offering our fluorescent linear machine tool illumination products with high output, dual slim T5 bulbs for reduced energy costs, supreme light output, and long life spans.

The fluorescent Longline® series is our newest linear illumination offering. These fixtures can be retrofitted into any existing light application. They are offered in three distinct lengths, as well as offered in two voltage styles. Compared to other models on the market, our Longline® linears use less energy, and have much longer expected life spans.

These Longline® linears come standard with borosilicate glass protective lens. These are perfect for use in and around harsh chemicals, as they will not blur and fade over long term exposure. The Longline® linears are IP67 rated. These linears come with three different bulb wattages, based on overall fixture length. The ballast is "hidden" behind the dual T5 fluorescent tubes, to allow for total light coverage from end to end. No longer do you have to sacrifice light on one end, to hide a ballast.

These fixtures are CE certified, and are available in your choice of 120v or 24v DC. Each light includes end mounting feet standard. These allow for solid mounting on any flat surface. We also have (4) Four mounting bracket choices, for almost any mounting configuration you can think of.

- 120v or 24v DC, specify when ordering
- 6 ft., 3 prong molded US plug
- Three lengths available
- Equipped with new slim T5 HO bulbs
- · CE certified
- · Non-strobing electronic ballast
- Total light output: 940 total lumen (FLL-082DB-G) 2700 total lumen (FLL-142DB-G) 4200 total lumen (FLL-212DB-G)
- Long service life up to 20,000 hours
- · Borosilicate glass tube
- · Mounting ends included standard
- 1 Year Electrical Warranty



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FLL-212DB-G



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