

# DC190

## The Audio Video Ladibug™

**Lumens™**  
Brighter Teaching

The Lumens™ DC190 Ladibug™ is a high-resolution multimedia document camera that delivers crystal clear SXGA resolution with a powerful 5.5x optical zoom lens. One-touch audio/video recording and playback do not require a computer. A large image shooting area means teachers can share a view of large pages and objects instantly. The DC190 camera head and lamp are mounted on adjustable gooseneck arms to examine objects from any angle.

### Key Features:

- **High-Resolution XGA, SXGA, and WXGA**
- **One-Touch Video/Audio Recording and Playback**
- **Built in Microphone**
- **5.5x Optical Zoom, Manual Zoom**
- **8x Digital Zoom**
- **Annotates without a computer**
- **Supports Wireless mouse devices**
- **Internal Memory for 120 JPEG Images**
- **USB Drives supports up to 64 GB**
- **Compatible with ALL Interactive Whiteboards (IWB)**
- **Time-Lapse Photography**
- **Automatic and Manual Slide Show**



# Specifications



# DC190

## IMAGING

**Full screen Video/audio recording and playback**  
**Output Resolution** : XGA (1024 x 768), SXGA (1280 x 1024), WXGA (1280 x 800)  
**Frame Rate** : VGA - 30 fps; USB - 20 fps  
**Zoom Capacity** : 5.5x optical zoom and 8x digital zoom  
**Capture Area** : 18" x 12.5" (357.2 x 317.5 mm)

## LIGHTING

**Lamp Type** : 2 lamps for completely even light coverage, (one in head)  
**Light Box** : Optional

## INPUT/OUTPUT

**Power Supply** : Built-in, 100-240 VAC, auto switching  
**VGA In** : Active pass through from the computer  
**VGA Out** : VGA output to the projector  
**Audio In** : Built-in microphone  
**Audio Out** : 3.5mm phone jack for earphones or speakers  
**Internal Memory Capacity** : Up to 120 JPEG images  
**External Memory Capacity** : Support USB Drive  
**USB Support** : USB 2.0 High Speed (up to 480 Mbps) for seamless integration with interactive whiteboards  
**RS-232** : Yes  
**C-Video** : RCA Jack (PAL, NTSC)

## SOFTWARE

**Ladibug™ Software Included** : Support PC Windows 7, XP, Vista and Mac OSX. (Free download from Lumens™ website.)  
**Video Recording with Audio** : Record video with various compression formats. Playback with audio out- No PC needed.  
**Image Capture** : Single or continuous capture of JPEG images.  
**Annotation** : Add annotations directly to live image.  
**Controls and Operations** : Same set of controls as the remote control  
**USB Driver** : Supports UVC, WIA and TWAIN for integration with interactive whiteboards including Promethean™, SMART™, Hitachi Starboard™, Mimio™, and others.

## ACCESSORIES

**Standard** : Power cable, VGA cable, USB cable, Microscope adapter ( x 3), Audio Cable, Remote Control  
**Optional** : Padded carrying case, light box, USB 2.0 high speed 15 foot extension cable, 25 foot Power cable, RS232 Adapter

## OPERATION FUNCTIONS

**Auto Tune** : Yes, single button to adjust for best possible images  
**Auto Exposure** : Yes  
**Auto White Balance** : Yes  
**Auto Focus** : Yes  
**Photo/Text Mode** : Choose photo/grayscale/text mode  
**Image Mode** : Choose normal/35mm slide/microscope/negative film  
**Image Capture** : Single capturing of images to built-in memory, or to a computer via USB, or to a USB drive  
**Video Recording** : One-touch, Video recording and playback with audio from built-in microphone  
**Picture In Picture (PIP)** : Yes  
**Freeze** : Yes  
**Slide Show** : Automatically or manually  
**Image Rotation** : Full screen image rotation from 90,180 to 270 degrees  
**Annotation** : Yes, Annotation with or without a computer  
**Spotlight** : Yes  
**Low Light Mode** : Yes  
**Pan Across the Screen** : Enlarged any part of the image and pan it by using the arrow keys.  
**Mask** : Yes  
**Projector Type** : Yes, supports both LCD and DLP projectors  
**Volume control** : Yes, via remote or OSD

## SECURITY

**Lock-Down Mode** : Lock the unit with password entry  
**Auto Erase Mode** : Option to automatically erase internal memory during power down  
**Anti-Theft** : Kensington Lock Port on document camera chassis.  
**Bolt Holes on Bottom for Mounting** : VESA standard 2.95" x 2.95"

## OTHER

**Weight** : 5.0 lbs (2.3kg)  
**Dimensions Operating** : 11" x 6" x 11" (279 x 152.4x 279 mm) (L x W x H)  
**Dimensions Folded** : 7" x 6" x 11" (177.8 x 152.4x 279 mm) (L x W x H)  
**Warranty** : 5 year unlimited REPLACEMENT warranty covers all hardware including lamps  
**Express Replacement** : Free advanced replacement program available

## COMPLIANCE

**Lumens™ comply with these important standards** :  
FCC-EMI, cUL, CE-EMC, CE-LVD, RoHS, and WEEE.

## I/O CONNECTIONS

