Kodak

P310 Webcam HD

User's Manual

Kodak
Licensed Product

Table of Contents

Introduction

Thank you for purchasing the KODAK P310 Webcam HD. Everything you need to use your webcam to visually connect with family, friends or colleagues in real time. Take and share quality digital videos and photo snapshots and upload them to the most popular social network sites from within the software application.

Please read this manual carefully FIRST in order to get the most out of your KODAK Webcam.

Important Notice:

- **This KODAK P310 Webcam HD is Plug & Play on WINDOWS and MACINTOSH OS compatible computers (see Minimum System Requirements section) and does not require a separate driver**

- **You can use the KODAK Webcam directly with webcam enabled VOIP applications including SKYPE Software and other popular instant messengers. These applications provide their own settings for the webcam**

- **We recommend installing and using the 'Control Center for KODAK Webcams' software in order to get the most out of your webcam**

- **Discover a world of webcam features that are easy to use and share**

Key Features

- Adjustable clamp to mount the webcam on any LCD monitor
- Control Center for KODAK Webcams software for uploading and managing photos and videos to or from the most popular photo sharing and social network websites – KODAK GALLERY, PHOTOBUCKET, FLICKR, YOUTUBE, FACEBOOK, PICASA Web Albums or MYSPACE
- Built-in microphone and quality graphics combined with state-of-the-art technology provides an all-in-one webcam solution
- Customized 'Movie Maker' application for creating your own movies with special effects from your videos and photos

What your package includes

- KODAK Webcam with built-in USB cable
- Control Center for KODAK Webcams software Installation CD (Includes user manual)
- Quick Start Guide

Computer System Requirements for WINDOWS XP

To be able to use your webcam as well as download photos and videos to your PC, you will need the following minimum configuration:

- PENTIUM 4 processor or above with WINDOWS XP service pack 2
- 512 MB RAM, with 250MB of free disk space
- 1024 x 768 Recommended screen resolution
- 16-bit color or higher display adaptor
- CD-ROM Drive

- QUICKTIME 6 or higher
- MICROSOFT INTERNET EXPLORER 7 or higher
- WINDOWS Media Player 10 or higher
- DirectX 9 or higher

Computer System Requirements for WINDOWS VISTA or WINDOWS 7

To be able to download photos and videos to your PC your will need the following minimum configuration:

- WINDOWS VISTA or 7
- 800MHz processor and 512 MB of system memory
- 20GB hard drive with at least 15GB of available space
- Support for Super VGA graphics
- Available USB Interface
- CD-ROM drive
- QUICKTIME 6 or higher
- MICROSOFT INTERNET EXPLORER 7 or higher

Computer System Requirements for MACINTOSH OS

- MACINTOSH OS with INTEL processor running MAC OS X v10.5 or later
- 256 MB RAM, 250 MB free disk space
- Display: 1024 x 768 or higher-resolution monitor
- QUICKTIME 6 or higher

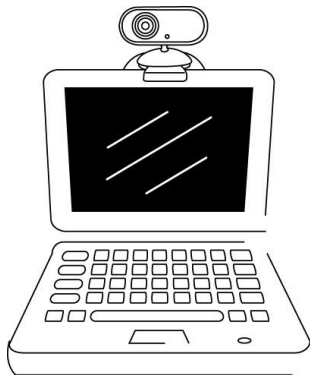## A Quick Look at your KODAK Webcam

5

Using your KODAK Webcam

To use your KODAK Webcam as a Plug & Play device with the VOIP and instant messenger application you have installed on your computer, follow these easy instructions:

1. Connect and plug the USB cable attached to the webcam into an available USB 2.0 slot on your computer.
2. Your KODAK Webcam will power on and the LED will light up.
3. The first time you plug your webcam into the computer, wait a few moments for the computer to recognize your KODAK Webcam.

4. Place the KODAK Webcam on a flat and sturdy surface and swivel the lens in the direction of the object you wish to capture.
5. Alternatively, perch and position your KODAK Webcam on any LCD monitor by opening and adjusting the clamp on the base of the webcam.
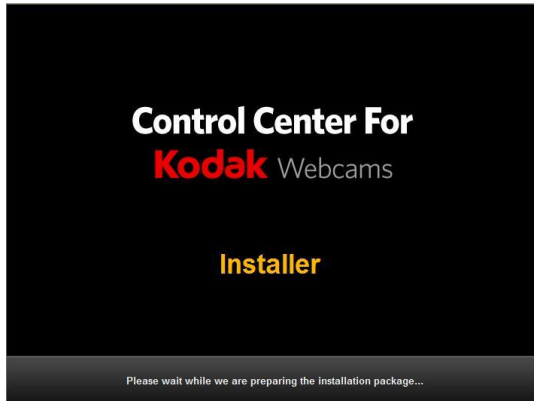
6. Once in place, you can swivel the webcam left, right, up or down on its base to direct the lens.
7. Open the VOIP or instant messenger application you have installed on your computer (example: SKYPE Software) to recognize and setup your webcam.
8. This KODAK Webcam is equipped with an automatically focusing lens. It will continuously adjust itself to maintain correct focus.
9. If you need to change the webcam settings (Brightness, Contrast, Hue, etc.) to suit your capture environment, select the webcam`s setup settings option within the application you are using.
10. Once the image sharpness and clarity is to your satisfaction save these settings and begin to use your KODAK Webcam with your VOIP, video conferencing or instant messenger application.

Install the Control Center for KODAK Webcams Software

Warning: **Do not remove the installation CD from the computer until the software installation is complete.**
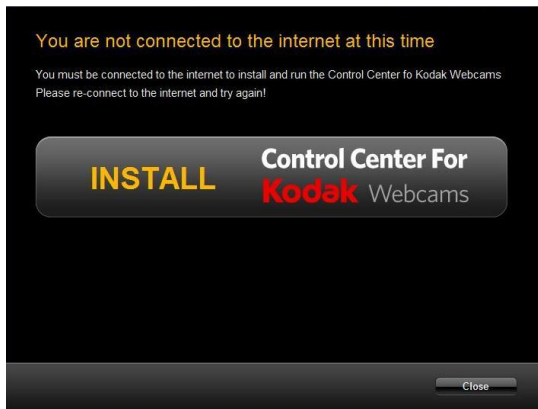**You must be connected to the internet to install and run the Control Center for KODAK Webcams software**.

1. Insert the installation CD into your CD-ROM drive. The installation screen should automatically open.

2. On PC: The Control Center for KODAK Webcams Installer window appears. If the window does not appear, open the application's CD/DVD drive and click on the 'Control Center for KODAK Webcams' to launch the installer.
3. On MAC: Click the icon to install the Control Center for KODAK Webcams.
4. If you do not have internet access at the time of inserting the CD-ROM, connect to the internet and then click the "Install Control Center for KODAK Webcams" button to begin the installation.

Note: You do not need to be connected to the Internet to use the webcam with this application.

5. If you have internet access, the "Select your webcam model" window opens.
6. Select your webcam model from the list and click "Next" to open the next window.
7. Click "Next" to confirm your webcam model selection and to install the application.
8. Please wait while the application is being installed on your computer.
9. Please review the license terms.
   On PC and MACINTOSH: Click the "I accept the terms of this license agreement" and then click "Next" to continue.
10. On PC only: Let the "Control Center for KODAK Webcams" installer create the folder to where the program will be installed, and then click "Install".
11. Please wait while the application continues the installation process on your computer.
12. On PC: Click the "Close" button when the installation is complete.
    On Macintosh: Click the "Quit" button when the installation is complete.
13. Click the "Launch Control Center for KODAK Webcams" to open the application.
14. If you closed the application, open and run the application by clicking the desktop icon (PC) or select the application from the Programs or Applications menu on your computer.

Control Center
for KODAK
Webcams

Using the Control Center for KODAK Webcams Software

The Control Center for KODAK Webcams software is a custom built application that offers you an array of features and functions to make the most out of the KODAK Webcam you have purchased.
Note: The P310HD does not support the Parental Control feature.

Easily access and utilize all the applications you use on your computer from one Control Center.

- **Connect** – Click on the "Connect" button on the Control Center for KODAK Webcams main menu to automatically enable IM and VOIP applications that support your Web Cam. Open the window to select the video conferencing or instant messenger you use (example: SKYPE Software)

11

- **Monitor** – Click the "Monitor" button on the Control Center for KODAK Webcams main menu. The application will open to the Webcam Tab / Monitor screen in the center of which the image of that what the webcam "sees" will appear. Use the "Controls" options on the right of the preview screen to manually adjust the webcam display settings

- **Record Videos** - Click the "Record Videos" button on the Control Center for KODAK Webcams main menu. The application will open to the Webcam Tab / Record Videos screen in the center of which the image of what the webcam "sees" will appear. To start recording a video with sound of this image, click the 'Record' button at the bottom of the screen

- **Take Snap Shots -** Click the "Take Snap Shot" button on the Control Center for KODAK Webcams main menu. The application will open to the Webcam Tab / Take Snap Shot screen in the center of which the image of what the webcam "sees" will appear. To take a Photo Snapshot of this image, click the 'Snapshot' button at the bottom of the screen

- **Manager -** Click on the "Manager" button on the Control Center for KODAK Webcams main menu to open to the Manager Tab to organize your images by creating albums. View, edit, upload, email or print the images saved on your computer

- **Take a Tour –** Click on the "Take a Tour" button on the bottom right corner of the main menu to open a visual tour of how to use the main features and get the most out of this Control Center for KODAK Webcams software
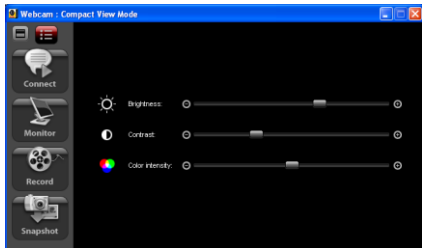
Connect mode

The "Connect" window allows you to launch and automatically enable the following Instant Messenger (IM) and VOIP applications that support your Webcam

- SKYPE
- AOL INSTANT MESSENGER
- GOOGLE TALK
- YAHOO! MESSENGER
- WINDOWS Live IM -PC only
- ICHAT AV - MAC only

1. Click on the graphic button you want in the center of the screen.
2. Login - follow the instructions to login to your account if you are not yet logged in.
3. You will have to sign up to create a new user account if you don't have one.
4. When you are connected to one of the applications, the Control Center for KODAK Webcams software goes into compact view mode. The application in compact view mode remains active while the 3rd party software is in use.

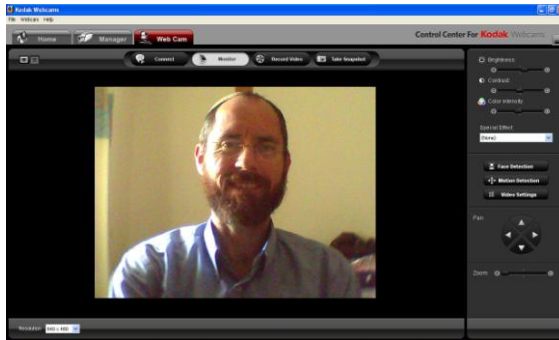Compact View Mode on PC   Compact View Mode on MAC

5. The 'Brightness', 'Contrast' and 'Color Intensity' control options are active on PC only and can be used to change the image that appears while the 3rd party software is in use. Drag the slider to change the setting(s) as needed.

Important:

The webcam will only appear in one of the applications at a time. To use the webcam with your VOIP or IM you need to open that application through the Connect mode.

14

Monitor mode

Click the "**Monitor**" button from the Control Center for KODAK Webcams Main Menu to open the application to the Monitor mode

- The image of what the webcam 'sees' appears in the preview window

- Use the **Display control** on the right of the preview window to adjust the image that appears on the screen per your specific lighting environment:

- **Brightness** - Move the "Brightness" slider to the left to lighten the image or move the slider to the right to darken the image
- **Contrast** - Move the "Contrast" slider to the left to reduce the contrast in the image or to the right to increase the contrast
- **Color Intensity** (Saturation) - Move the "Color intensity" slider to adjust the saturation or the intensity of color in a picture
- Move the slider to the left to reduce the saturation density and to the right to increase it
- **Special Effects** - Add special effects to create gray scale, sepia or invert effects. Select the effect you want from the special effects drop down menu
- **Face Detection** - The face detection tracking function is used to allow the camera to zoom and pan automatically in order to keep the face in the middle of the display at all times
    - Click on the "Face Detection" button to enable the function
    - The Webcam Control Center indicates that it is scanning the face momentarily
    - The face is "remembered" and the camera automatically zooms/pans per the movement of the face to keep it in the center of the display
- **Zoom** – Move the Zoom slider to the right or left to enlarge or reduce the image size as it appear in the preview window

16

- **Pan** - The Pan control is inactive by default. After you zoom into the image, the pan control becomes active. Use the Up, Down, Left, Right direction arrows to navigate around the zoomed in image
- **Motion Detection** – In the Record Video mode, the webcam can be set to automatically activate the record feature if it senses movement
- **Video Settings** – Click the Video Settings button to open the Video Settings menu and select the webcam, audio device and flicker (frequency) control setting

- **Video Source** – open the Video Source dropdown menu to select the video device you wish to use

> **Note**: Use this option to select the KODAK Webcam you have connected to your computer if the computer`s built in camera appears by default

- **Audio Source –** open the Audio Source dropdown menu to select the audio device you wish to use. The KODAK Webcam has its own built-in microphone on the back of the webcam
- **Flicker Control –** Adjust the lighting flicker control frequency according to your region

- The **Resolution** size of the image as it appears on the preview screen can also be changed

    1. Click to open the Resolution dropdown menu on the bottom left corner of the application below the preview window.
    2. Click to select the resolution size from the menu that opens.
    3. The image in the preview window automatically changes to the selected resolution size.

For more details on how to use the Control Center for KODAK Webcams open the Help file or click the "Take the Tour" button on the application`s Home page.

Record Video mode

In the Record Video mode you can use your Webcam to record videos.

1. Set the desired "Brightness", "Contrast", "Color Intensify" and "Special Effects" options as desired (see instructions in "Monitor" section).

2. Select the video resolution you want from the "Resolution" drop down list on the bottom left corner of the application. You can record videos at variable resolutions.

   Note: The default resolution setting for the KODAK P310 Webcam HD is 1280 * 720 (HD) pixels.

3. Select the video compression rate with which the recorded video will be saved, from the "Compression" drop down list – High, Medium or Low.
   Note: The default compression setting for the KODAK P310 Webcam HD is Medium.

   The following is a table of the KODAK P310 Webcam HD resolutions and fps (frames per second) per each resolution setting:
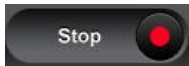
Resolution (in pixels)	fps (frames per second)
2048 * 1536	15
1600 * 1200	15
1280 * 720 (HD) (Default)	30
640 * 480	30
352 * 288	30
320 * 240	30
176 * 144	30
160 * 120	30

Important: Video recording performance is based on using USB 2.0.
The fps is based on the 60Hz frequency. At a frequency of 50Hz the fps will be
25 for all resolutions except 2048 * 1536 and 1600 * 1200 where the fps is 13.

Record ●

4. Click the "Record" button on the bottom right of the preview window to start recording your video. The video counter will begin to count up. The 'Record' button will appear as the 'Stop' button while the video is recording.

Stop ●

5. Click the "Stop" button to stop and automatically save the video to the computer.

6. The new video is saved in AVI format on PC and MOV format on MAC and can be found in the "Webcam Video" album in the "Videos" tab directory in the Manager mode.

7. Click the "Upload" button to open the Upload menu. Select the social network site from the drop down menu and click the "OK" button to login and upload your videos to your account on that site.

a. Once logged in, the videos you recorded will appear in the thumbnail strip of the upload Wizard window.
b. To remove a video, right click on the selected video thumbnail and select the "Remove" option.
c. Follow all the Upload Wizard instructions
d. Click the "Upload" button in the Upload Wizard to upload the selected videos.

For more details on how to use the Control Center for KODAK Webcams open the Help file or click the "Take the Tour" button on the application`s Home page.

Take Snapshot mode

In the Take Snapshots mode you can use your webcam to take JPEG photos.

1. Position the webcam and focus in on the object you wish to photograph.

2. Set the desired "Brightness", "Contrast", "Color Intensify" and "Special Effects" options as desired (see instructions in "Monitor" section).

3. Select the photo resolution you want from the "Resolution" drop down list on the bottom left corner of the application. You can take snap shot photos at variable resolutions.

   Note: The default resolution setting for the KODAK P310 Webcam HD is 2048 * 1536 (3.0M) pixels.

The following is a table of the KODAK P310 Webcam HD photo resolutions:

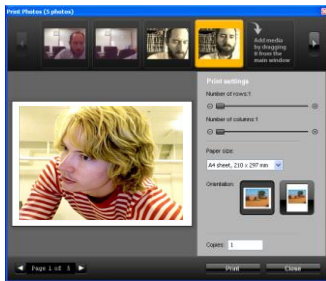| Resolution (in pixels) |
|---|
| 4096 * 3072 |
| 3072 * 2304 |
| 2048 * 1536 (Default) |
| 1600 * 1200 |
| 1280 * 720 |
| 640 * 480 |
| 352 * 288 |
| 320 * 240 |
| 176 * 144 |
| 160 * 120 |

Important: The resolution is based on using USB 2.0

4. Click the "Snapshot" button on the bottom of the preview window to take the snapshot.

Note: After clicking the Snapshot button you need to hold the pose for 3 seconds. This is the delay time that it takes from clicking the button until the webcam takes the photo. A '3 2 1' graphic counter will appear to the left of the Snapshot button. Please do not move until this counter disappears.

5. The photo is automatically saved to the computer.

6. The new photo is saved in jpeg format in the "Webcam Snapshot" album and can be viewed in the "Photos" tab directory in the Manager mode.
7. Click the "Print" button to the right of the 'Snapshot' button to open the Print wizard. Select and print all the photos that appear on the thumbnail strip. To remove a photo from the strip, right click on the selected photo and choose the "Remove" option.

8. Click the "Email" button to open the Email Wizard. Follow all the instructions to select and email the photos that appear on the thumbnail strip.
   To remove a photo from the strip, right click on the selected photo and choose the "Remove" option.

9. Click the "Upload" button to open the Upload Wizard and menu. Select the social network site from the drop down menu and click the "OK" button to login and upload your photos to your account on that site.

   a. Once logged in, the photos you recorded will appear in the thumbnail strip of the upload Wizard window.
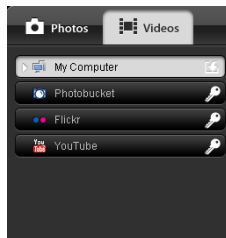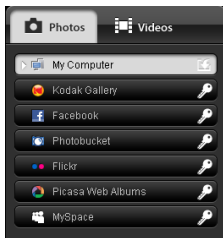   b. To remove a photo, right click on the selected photo thumbnail and

select the "Remove" option.
c.   Follow all the Upload Wizard instructions
d.   Click the "Upload" button in the Upload Wizard to upload the selected photos.

For more details on how to use the Control Center for KODAK Webcams open the Help file or click the "Take the Tour" button on the application`s Home page.

Manage mode

Select the Manage button on the Main Menu or click the Manage tab in the application to open the Manage mode. Organize your images by creating albums, view, edit, email or print the images saved on your computer. Easily upload your images to your account on popular social network sites.

There are 2 main tabs – Photos and Videos.

Photos

1. By selecting the **Photos tab** you will be able to organize the photos on your computer into albums.
2. View the photos in **Thumbnail or Full Size** in the preview window
3. Rotate the photos with the click of a button.
4. Import Photos – Click the "**Import Photos"** button to select and import photos from your computer to the application.

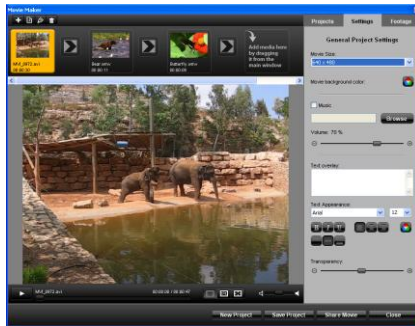5. Edit photo – Click the "**Edit Photo**" button to open the Edit Photo wizard to edit your photo.

6. Upload to Social Network Sites – Drag your images from the preview window to easily **upload** them to your social network sites.

7. Email Photos – Click the "**Email Photos**" button to open the email wizard to select and email the photos through the application with the default email that you use on your computer.

8. Print Photos – Click the "**Print Photos**" button to open the print wizard to select and print the photos with the default printer connected to your computer.

9. Slideshow – Select the "**Slideshow**" button to view all the photos in the selected photo album as a slideshow. The Slideshow wizard allows you to add photos, select the time interval between photos and select background music to play during the slideshow.

Videos

1. By selecting the **Videos tab** you will be able to organize the videos on your computer into albums.
2. View the videos in **Thumbnail, Details or Full Size** in the preview window
3. Import Videos – Click the "**Import Videos"** button to select and import videos from your computer to the application.
4. Get Videos from camera – Click the "**Get Videos from Camera**" button to import images from USB removable devices connected to the computer.

5. Take Snapshot – Select a video to play. While the video is playing click the "**Take Snapshot**" button to capture a photo snapshot from the video. The photo is saved to the computer.

6. Movie Maker – Select the "**Movie Maker**" button to open this custom built Movie Maker application, to edit and create your own movies with the videos and photos that you have on your computer.

For more details on how to use the Control Center for KODAK Webcams open the Help file or click the "Take the Tour" button on the application`s Home page.

Maintenance of Your KODAK Webcam

The KODAK Webcam is a delicate instrument- please handle it with care.

Sakar Warranty Card

This warranty covers for the original consumer and product purchased only and is not transferable. Products that fail to function properly UNDER NORMAL USAGE, due to defects in material or workmanship will be repaired at no charge for parts or labor. This warranty is valid for a period of one year from the date of purchase

.

What Is Not Covered By Warranty:
Damages or malfunctions not resulting from defects in material or workmanship and damages or malfunctions from other than normal use, including but limited to, repair by unauthorized parties, tampering, modification or accident.

What To Do When Service Is Required:
When returning your defective product (postage pre-paid) for service, your package should include:

1. Copy of **original** bill of sale
2. A detailed written description of the problem.
3. Your return address and telephone number (Daytime)

MAIL TO ADDRESS BELOW:

In the U.S.	In the U.K.
Sakar International	Sakar UK
Attention: Service Department	2D Siskin Parkway East
195 Carter Drive	CV3 4PE, UK
Edison, NJ 08817	

Technical Support

For technical support issues please visit our website at www.sakar.com/kodaksupport.
You can find manuals, software and FAQ's at the website. Can't find what you are
looking for?
For phone support please call, toll free **1-800-763-8491** in the US, or **0-800-917-4831** in
the UK.

Technical Specifications

Image Sensor	1/4" Color Progressive CMOS
Video Resolutions	2048*1536, 1600*1200, 1280*720 HD (Default), 640*480, 352*288, 320*240, 176*144, 160*120
Photo Resolutions	4096*3072, 3072*2304, 2048*1536 (Default), 1600*1200, 1280*720, 640*480, 352*288, 320*240, 176*144, 160*120
Audio	Built-in Microphone
Lens	Auto Focus: F2.8, f=3.85mm 4P
Depth of field	10cm to infinity
Video Format	AVI (PC) and MOV (MAC)
Photo Format	JPEG
Flicker Control Frequency	None, 50Hz, 60Hz
Video Frame rate	30 frames per second at 60Hz (15 fps @ 2048*1536 and 1600*1200) 25 frames per second at 50 Hz (13 fps @ 2048*1536 and 1600*1200)
Exposure	Auto
White Balance	Auto
Snapshots	By software
Power source	From USB Port
Computer interface	USB 2.0 for best performance
Operating systems	WINDOWS XP / VISTA / WINDOWS 7 / MAC X 10.5 or higher

Frequently Asked Questions

Q: I have connected my KODAK Webcam to my computer, but when I open the application I see the image that the inbuilt camera on my laptop "sees".
What do I do to activate the KODAK Webcam?

In order to set your KODAK Webcam as the default webcam on your computer:

1. Select the "Video Settings" button on the Control Display in the Control Center for KODAK Webcams application.
2. From the "Video Source" dropdown menu select the KODAK Webcam from the list.
3. From the "Audio Source" dropdown menu select the "Audio Device" option to select the KODAK Webcam`s built-in microphone.
4. Click "OK" to save your KODAK Webcam as the default webcam on your computer.

Q: If I have a MAC, will the device work?

Yes. This webcam is Plug & Play with both WINDOWS and MACINTOSH OS computers and does not require a separate driver (see Minimum System Requirement section).

Q: If the webcam does not work?

Make sure you have connected the camera correctly into an available USB port.

A01-071209GES