

Quick Start Guide

iImage Driverless USB CCD Webcam
for Mac OS X and
for Windows XP/Vista

Module Number: PIKCU03W2G



Designed and Manufactured by Pico Instruments LLC
Distributed by Ecamm Network, LLC

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Table of Contents

1. Introduction	1
2. System Requirements	2
3. 3-Step Operation	2
4. List of Free Video Chat Programs	4
5. Troubleshooting	5
6. FAQ (Frequently Asked Questions)	8
7. Product Specifications	14
8. Technical Support	14

1. Introduction

iImage, a high speed USB CCD Webcam based on Pico Instruments' PicoVideo™ Technology and equipped with a high quality CCD VGA image sensor, is stylish, light and works with many video chat applications such as Skype for Video, Yahoo! Messenger, MSN Messenger and iChat*. With its versatile mounting options and high resolution image quality, this webcam gives you endless ways to have fun.

iImage USB webcam is fully compliant with the USB Video Device Class standard, which makes it a Truly Plug&Go™ USB device. Just like a USB keyboard, mouse or USB thumb drive, it does not require any device driver installation prior to its initial connection to a computer running Windows XP (SP2 and later), Windows Vista or Mac OS X (10.4.3 or later). Simply plug it into a high speed USB port and there you go.

* Ecamm Network's iImage Plugin software (<http://www.ecamm.com/mac/imagewebcam/support.html>) is required to allow iChat and iMovie to correctly recognize the iImage webcam.

1

2. System Requirements

For Macintosh computers:

- Requires Mac OS X v10.4.3 or later
- 600MHz PowerPC G3 processor or later, 1.5GHz Intel Core processor or later
- Minimum 128MB RAM
- One USB 2.0 high-speed port

For PC computers:

- Windows XP(SP2) or later / Vista
- Pentium P4 1.25G
- Minimum 128MB RAM
- One USB 2.0 high-speed port

3. 3-Step Operation*

- A. Insert iImage webcam's USB cable into computer's high speed USB port.**
- B. Mount webcam into desired position.**
- C. Launch your favorite video chat program and enjoy.**

* The very first time you plug in iImage webcam, Windows will configure itself to use the new found hardware. Please allow a couple of minutes for this process to complete.

2

4. List of Free Video Chat Programs

The following is a list of free video chat programs tested to work with iImage webcam.

[For Mac Users]

- Skype for Mac OS X
- Yahoo! Messenger for Mac
- iChat AV*
- SightSpeed

[For Windows Users]

- Skype for Windows
- Yahoo! Messenger for Windows
- MSN Messenger
- AMCap (Viewing only)



a product designed in California, USA and assembled in China.


4

5. Troubleshooting

In case iImage webcam doesn't work on your computer, follow the instructions below to troubleshoot the problem.

A. Check OS version

[For Mac Users]

Click the  icon and select About This Mac from the drop-down menu. The About This Mac dialog box pops up. The OS version is displayed in this dialog box. If the version number is 10.4.3 or higher, your OS meets the requirements. Otherwise stop troubleshooting here and upgrade your OS by clicking Software Update button from this dialog box.

[For Windows Users]

Open up Windows Explorer. Right-click on My Computer icon, select Properties from the drop-down menu. The System Properties dialog box pops up. Click General tab and the

* Ecamm Network's iImage Plugin software (<http://www.ecamm.com/mac/imagewebcam/support.html>) is required to allow iChat and iMovie to correctly recognize the iImage webcam.

5

OS information is displayed on this tab page. If the OS is Windows Vista, your OS is OK. If the OS is Windows XP, check if 'Service Pack 2' is displayed. If yes, your OS meets the requirements. If not, stop troubleshooting here and upgrade your Windows software by installing Service Pack 2 from Microsoft.

B. Check high speed USB port

[For Mac Users]

Download and run the iImage Tester application, available at:
<http://www.ecamm.com/mac/imagewebcam/support.html>. If your Mac has high speed USB 2.0, you will see a green checkmark beside the USB 2.0 Status. Otherwise, stop troubleshooting here and upgrade your computer hardware by installing a high speed USB add-on card (for example, PCI card or PCMCIA card).

[For Windows Users]

Open up Windows Explorer. Right-click on My Computer icon, select Properties from the drop-down menu. The System Properties dialog box pops up. Click the Hardware tab and then click the Device Manager button. This brings up the Device Manager dialog

6

If you need to use a USB hub to expand USB ports, make sure you use a High Speed USB hub.

You can verify iImage webcam is working properly before launching your favorite video chat program. To do so:

[For Mac Users]

Run the iImage Tester (download it from <http://www.ecamm.com/mac/imagewebcam/support.html>). If you don't see video, go to the Troubleshooting Section. Before launching your favorite video chat program, be sure to close the iImage Tester program.

[For Windows Users]

Open Windows Explorer. Under My Computer icon, a USB Video Device icon will show up. Double click the USB Video Device icon to start video right inside Windows Explorer. If you don't see the video, go to the Troubleshooting Section. Before launching your favorite video chat program, Windows Explorer should be closed.

3

box. Scroll down and click the plus sign (+) in front of Universal Serial Bus controllers to expand the list. If you see the wording 'USB 2.0 Enhanced Host Controller' shown in the list, it indicates your computer is equipped with high speed USB port(s) and your computer's USB hardware is OK. If you only see the wording 'USB Universal Host Controller' in the list, your computer has only full speed USB ports. Stop troubleshooting here and upgrade your computer hardware by installing a high speed USB add-on card (for example, PCI card or PCMCIA card).

C. Restore video codec search order (For Windows Users only)

Restoration of video codec search order is only needed if webcams were previously installed on your computer and the installation process of such webcams incorrectly altered Windows' video search order. To restore the video codec search order, you will run the RestoreVideoCodecList fix on your computer. RestoreVideoCodecList fix is available for downloading from <http://www.picoinstruments.com/downloads.htm>.

7

This fix restores Windows Video Codec search order by putting back Microsoft's original video codec msyuv.dll on the top of the search list. The fix is harmless because it doesn't modify or delete any files and the webcam previously installed on the computer will still work.

To run the fix, simply double-click RestoreVideoCodecList.reg and that is all there is to it, you are done.

6. FAQ (Frequently Asked Questions)

Q Why doesn't iMage webcam require device driver to be installed prior to use?

A Like many USB HID devices (mouse and keyboard) and USB Thumb drive devices, iMage webcam is a truly USB plug&Go™ device. It is designed adopting Pico Instruments' proprietary PicoVideo™ technology which allows a USB video device to be correctly recognized and seamlessly supported by the operating systems. Any video applications (e.g., Skype for Video,

8

ogy which offers a data transfer bandwidth of 480 Mbps, a still image can now be feasibly captured on the host side.

The legacy 'capture button' design on many existing USB webcam products is due to the fact that it is only possible to stream real-time video at much reduced image size and frame rate on a full-speed USB 2.0 port. To capture a full-sized image, those webcams were designed to capture the image by themselves and then transferred the captured image slowly on a full-speed USB 2.0 port to the host.

Q What video chat applications are recommended for use with the iMage webcam?

A Skype for Video, Yahoo! Messenger, MSN Messenger, iChat and many other video viewing/editing/recording software programs.

Q How do I mount iMage webcam for video chat?

A For Desktop computers, put it right up in front of your keyboard or right under your monitor so that the remote party seeing you can get better eye contact from you while

12

Yahoo! Messenger, MSN Messenger, and many other video viewing/editing/recording software) running on top of the operating systems thus recognize and communicate with iMage webcam through standard function calls to the operating systems. In other words, the device driver for iMage webcam has already been part of the operating systems and thus no device driver installation is ever required.

Q Can iMage webcam work with Apple's new Macs with Intel core processors?

A Yes. Below is a matrix showing the combinations of hardware platforms and software operating systems supporting iMage webcam:

	Windows XP SP2 or later	Mac OS X 10.4.3 or later
Intel Mac	Yes	Yes
PowerPC Mac	Yes	Yes
X86 PC	Yes	N/A

Q What are the Operating Systems that support iMage webcam?

A Mac OS X 10.4.3 or later, Windows XP SP2

9

you are typing/chatting.

For Laptop computers: iMage can easily clamp onto the display lid. Adjust iMage's upper portion (the rectangular box) to get the desired viewing angle and clamping tightness.

Q After connecting iMage webcam, the computer displays the message "This USB device can perform faster if you connect it to a High Speed USB 2.0 port. For a list". What does this message mean and what should I do to get iMage webcam to work with my computer?

A This means that a) the USB port iMage webcam is being plugged into is a full-speed USB 2.0 and b) the computer you are using does have a high-speed USB 2.0 port which iMage can work with to stream video. To get iMage webcam to work with the computer you are using, try plugging iMage webcam into other USB ports on the computer.

13

or later, Windows Server 2003 and Windows Vista. Mac OS X 10.3.9 is supported via maccam driver which can be downloaded from <http://webcam-osx.sourceforge.net>

Q What is iMage's USB port requirement?

A iMage webcam requires a high-speed USB 2.0 port in order to stream video at full resolution (640 x 480 pixels) and at full frame rate (15 fps) in real time. It will not stream any video to the host when it is plugged into a full-speed USB 2.0 or 1.1 port.

Q Can I use iMage webcam with iChat?

A Yes, using Ecamm Network's iMage Plugin software, (<http://www.ecamm.com/mac/imagewebcam/support.html>), the iMage webcam will be correctly recognized by iChat AV for video conferencing.

Q Can iMage webcam be recognized by QuickTime? Can I use iMage webcam to make a QuickTime movie?

10

7. Product Specifications

- 640 x 480 (VGA) 1/7-inch color CCD sensor
- Image size: 640 x 480 (VGA), 320 x 240 (QVGA) and 352 x 288 (CIF)
- 15 frames per second
- USB 2.0 high-speed connection (480 Mbits/s)
- UVC compliant
- Auto white balance control
- Auto electronic iris control
- 52° horizontal and 40° vertical view angles

8. Technical Support

- 24-Hour Online Support: www.ecamm.com

14

A Yes but you will need QuickTime Pro version to record video and audio. The free version of QuickTime is only a player which has the audio/video recording features disabled. Note: QuickTime Pro also requires an audio recording device (Mic In or Line In) to be present before you can record video. In other words, QuickTime Pro won't allow you to make a silent movie.

Q Why isn't there a built-in microphone in iMage?

A In order to reduce the acoustic echo to a minimum level during a video/voice chat, we recommend using a headset with a built-in microphone. For this reason, we have not included a built-in microphone in the iMage webcam.

Q Why isn't there a capture button on iMage webcam? How can I use iMage webcam to take a still picture?

A Since iMage webcam can stream real-time video at full resolution and at full frame rate by utilizing the high-speed USB 2.0 technol-

11

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15

Warranty

Pico Instruments warrants that this product will be free from defects in materials and workmanship for the period of one year on the product packaging. This limited warranty shall commence from the date of purchase. Pico Instruments warranty is not transferable and is limited to the original purchaser. If the product is found to be defective then, as your sole remedy and as the manufacturer's only obligation, Pico Instruments will repair or replace the product. Pico Instruments shall not apply to products that have been subjected to abuse, misuse, abnormal electrical or environmental conditions, normal wear and tear or any condition other than what can be considered normal use.

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Regulatory Certifications

Pico Instruments' iMage webcam device complies with the FCC Declaration of Conformity (DOC) conforming to part 15, Sub part B Section 15.109 regulations. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation. Operation of this device is categorized as a class B equipment in a residential area. Pico Instruments declares that the iMage webcam device conforms to the following standards, in accordance with the provisions of the EC Directive 89/366/EEC: EN55022 and EN55024.