



# iRecord® Pro Reviewer's Guide

*Personal Media Recorder  
For the iPhone 3G, iPhone, iPod touch, iPod classic and  
more!*



## **iRecord Pro General Information**

**Product name:** iRecord Pro  
**Product version:** PMR-200  
**Product category:** Personal Media Recorder  
**Availability:** Now  
**Retail Price:** \$259.99  
**Manufacturer:** Streaming Networks Inc.,  
1765 Scott Boulevard, Suite 110  
Santa Clara CA 85050  
[www.streaming-networks.com](http://www.streaming-networks.com)  
[www.irecord.com](http://www.irecord.com)

**Package contains:**

- iRecord Pro unit
- S-video, RCA video & stereo audio cables
- USB cable
- Remote control
- Universal power adapter
- User Manual & Quick Start Guide

**Dimension; Weight:** 9"x 6"x3"; 2 lbs

**Technical support:** Free technical support via email, on-line forum as well as by telephone.

**Distribution:** Available on-line via [www.irecord.com](http://www.irecord.com)

### **Contact information:**

**Address:** Streaming Networks Inc.,  
1765 Scott Boulevard, Suite 110,  
Santa Clara CA 95050

**Telephone:** (408) 727-3904

**Facsimile:** (408) 985-2823

**Email address:** [PR@irecord.com](mailto:PR@irecord.com)

**Company Website:** [www.streaming-networks.com](http://www.streaming-networks.com)

**iRecord website:** [www.irecord.com](http://www.irecord.com)

**Press Room:** <http://www.irecord.com/pressroom.html>

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# 1. What is iRecord Pro?

## **Enjoy High-Quality Video On-the-Go**

iRecord Pro (patents pending) is an easy-to-use Personal Media Recorder and the only product on the market that can record video and audio directly to the Apple iPhone 3G and the iPod touch. Now consumers can enjoy high-fidelity video content and take advantage of the larger screen of the iPhone 3G. The recording is in the highest resolution that the iPhone 3G and iPod touch support.

## **It's easy to record!**

Recording is done with a touch of a button, no need for a computer and no complex configuration is required. And once recording has stopped the video segment is available for immediate viewing on your personal media player (PMP) without any further steps.

In addition to the iPhone 3G and iPod, iRecord Pro records to a number of popular personal media players as well as USB flash and USB hard drives.

Here is a partial list of devices the iRecord supports for movies and/or music:

- **Apple iPhone 3G, iPhone, iPod touch, iPod classic, iPod Nano, iPod**
- **Sony PSP & Walkman**
- **Nokia N95 and similar Smart Phones**
- **Creative Zen Vision M**
- **Sandisk Sansa**
- **Toshiba GigaBeat S**
- **USB flash drives (external)**
- **USB hard drives (external)**
- **PC and Mac hard disks (internal)**

As with the iPhone 3G, resolution is never sacrificed. Recording to USB flash or hard drives is set at 720x480 at 30fps. You can thus enjoy watching recordings on your TV at DVD quality.

## **For maximum flexibility**

iRecord Pro also records directly to your laptop or PC hard disk, whether it's Windows-based or Mac. You can also convert your existing MPEG contents on your PC/Mac to the H.264 video format of iPod and PSP.

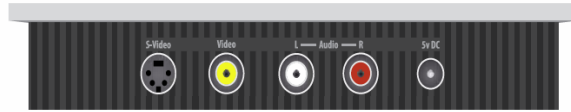
iRecord Pro enables users to record TV shows, movies, home videos, music, video-gaming-sessions, live events and more with one touch. It allows legacy content on LPs, cassette tapes and VHS tapes to be digitized.

Beside entertainment use, various professionals have acquired iRecord to record material in their respective fields. Some of the institutions that have purchased iRecord and iRecord Pro are:

- Acting studios (to provide their students the session recordings for analysis)
- TV stations (ESPN)
- Medical professionals for recording video and audio out-put from ultra-sound and scopes
- Universities and colleges (Kansas State University, Texas A&M, Cambrian College, Wartburg College, Sheridan College, (Wyoming) for Podcasting lectures and streaming video for distance learning students
- Churches for service recording and digitization of old sermons
- Law enforcement agencies (for recording interviews)
- Live video recording for security and surveillance
- Special interest groups
- Tourist centers (for providing information to tourists on their media players)

This guide highlights the features of iRecord Pro. A simple checklist is provided to guide you through the process. We recommend you test iRecord Pro on at least three devices such as, the iPhone 3G, USB flash drive and PC/Mac. For questions or technical details, please contact [PR@streaming-networks.com](mailto:PR@streaming-networks.com)

## 2. Main Features of iRecord Pro



The iRecord Pro is a compact universal recording device with the following I/O interfaces:

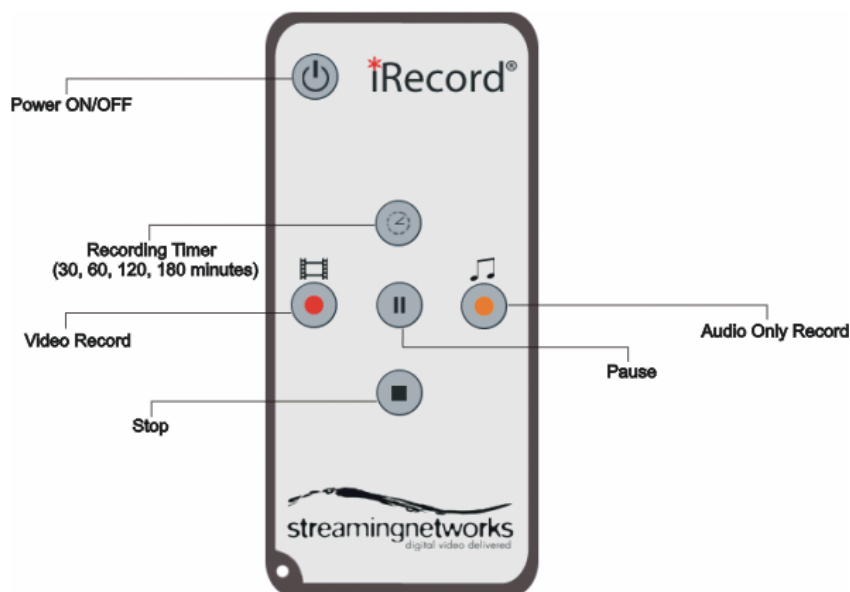
- **OUTPUTS:**
  - USB 2.0 host interface to connect to a portable media player (PMP) or storage device;
  - USB 2.0 client interface to connect to a PC and Macintosh;
- **INPUTS:**
  - Stereo audio line level inputs;
  - Composite video and S-video inputs;

iRecord Pro is a successor to iRecord and incorporates a number of exciting new features:

1. Direct recording to Apple iPhone 3G.
2. Direct recording to iPhone, iPod touch, iPod classic, iPod nano; Sony PSP, Walkman; Creative Zen; Sandisk Sansa; Toshiba GigaBeat S; Nokia N95; USB flash drives, USB hard drives and numerous other devices.
3. H.264/AVC encoding at full D1 (720x480) and VGA (640x480) resolutions at an average bit-rate of 2.5 Mbps and 1.5 Mbps respectively. Also QVGA (320x240) and native iPhone (480x320) and PSP (480x272) resolutions are supported.
4. Timed recording offers 30, 60, 120 and 180 minute durations. The unit will stop recording automatically after the set time has expired.
5. Pause recording feature enables recording to stop momentarily. This enables user to skip recording of uninteresting segment of video or audio playing.

6. In conjunction with iRecord Desktop software, iRecord Pro lets you record audio and video directly to a PC or Mac computer hard drive. iRecord Pro is connected to PC or Mac via its USB device port (type B).
7. iRecord Pro can also be used as a media accelerator to PC or Mac. Consumers can transcode MPEG2/1 digital contents from PC or Mac to H.264/AVC formats.
8. Scheduled recording is supported when recording to iPods and PC or Mac.
9. When recording to PC or Mac, a user can watch/listen-in to the recording session.
10. QuickTime feature of streaming can be used to remotely watch/listen to what is being recorded on your PC or Mac.
11. By default, music only recording uses MP3 audio compression. Commercially available MP3 players having Media Transfer Protocol (MTP) or mass storage protocols support can be directly connected to iRecord Pro for music recording.
12. For high fidelity music recording, option of FLAC and WAV lossless compression is provided.
13. A simple 6-key remote control is also provided including a "pause" button.

### **iRecord Pro Remote Control**



### 3. iRecord Pro Operating Modes

iRecord Pro has two operational modes:

- Snap Mode (standalone)
- Enterprise Mode (PC/Mac)

The iRecord Pro user manual and iRecord Desktop help manual have details on how to use iRecord Pro.

#### 3.1 Snap Mode

Connect analog Audio/Video (AV) source to iRecord Pro's AV inputs, using the appropriate cables provided. Attach target storage media, such as a PMP or a USB storage device to iRecord Pro's USB host port. Press the record button to start recording and press the record button again to stop recording. You can also use the remote control to start and stop recording.

<b>Snap Mode Reviewers check list</b>		<b>Tick</b>
1.	Have you verified recording directly to 3G iPhone, iPhone, iPod touch, iPod classic, iPod nano etc.?	
2.	Were you able to record directly to Sony PSP (with memory stick inserted), and Walkman etc.?	
3.	Did you record high resolution video (Full D1, 720x480) onto a USB flash drive or hard disk?	
4.	Could you verify automatic detection of the target player and selection of compatible audio and video formats for that player?	
5.	Were you able to verify, support of both Windows & Mac formatted iPods, iPhones?	
6.	Did you have any problems with recording timer setting for 30, 60, 120 and 180 minute recordings?	
7.	Did you find PAUSE a useful feature?	
8.	Did you record music in MP3 format? To record audio only, just unplug video cables to iRecord Pro or use remote control audio only key.	



### 3.2 Enterprise Mode

For enterprise mode, iRecord Pro is connected to PC or Mac via the USB device port (type B), using the cable provided. In this mode, iRecord Pro works in conjunction with the iRecord Desktop software. iRecord Desktop software provides the followings functionality. Details of the feature list are in its help manual.



#### iRecord Desktop Software Utilities:

	Utilities	Function
I.	iRecord-PC (iRecord-Mac )	Records video and music directly to your PC or Mac
II.	iTranscode	Converts MPEG2/1 videos for portable players ( iPod, PSP etc)
III.	iConfigure	Configure recording parameters and creates schedules for recording
IV.	iRecord firmware update	Upgrades iRecord firmware
V.	Help	iRecord Desktop Help Manual

The **iRecord Desktop** software is available from the iRecord website [www.irecord.com/downloadirpro.aspx](http://www.irecord.com/downloadirpro.aspx).

The iRecord Desktop help manual gives all the details of the options and features supported and how they work. To download iRecord Desktop, please go to the above link and provide the following details:

User name: Reviewer  
Password: 1rec200pro

<b>Enterprise Mode Reviewers check list</b>		<b>Tick</b>
1.	Was downloading and installing iRecord Desktop software utility easy?	
<b>I. iRecord-PC or iRecord-Mac utility:</b>		
1.	Were you able to record directly to a PC or Mac hard disk, selecting your desired resolution (default is VGA)?	
2.	<b>Preview:</b> Could you 'Preview' what you were recording? By default Preview is ON. You can disable it by going into "Advance Settings" via the option button alongside record button.	
3.	Could you verify that recorded movies/music can be directly added to your iTunes library?	
4.	Were you able to set the destination folder, where you want the recorded files to be stored?	
5.	<b>Scheduled recording:</b> Were you able to set and verify scheduled recording option for both video and audio-only recording?	
6.	<b>MP3 recording:</b> Did you try audio-only recording option using the 'Music" tab? Audio files are saved in MP3 format. You can specify artist name, album, and MP3 bit-rates (from 128-320 kbps).	
7.	<b>Track Splitting:</b> Could you verify the track splitting feature? While recording from audio sources, such as audio CDs, cassette players or LPs there is 2 seconds of silence between two consecutive tracks. iRecord Pro detects this silence and creates new file for each track.	
8.	<b>Streaming:</b> Were you able to watch what you are recording on a remote PC, on your LAN, using QuickTime? iRecord-PC Pro provides the facility to view Preview on the PC that you are recording on as well as a remote PC through live streaming.	
9.	<b>Stream to remote server:</b> Recorded contents by iRecord Pro can be sent to a server that will relay the contents to other clients. Presently iRecord Desktop 2 can send the recording stream to 5 different servers.	
<b>II. iTranscode utility:</b>		<b>Tick</b>
1.	Did you verify Transcode feature: MPEG2 digital video converted to H.264 format for PMPs like iPhone, iPod, PSP as well as Apple TV & PS3 etc.	
2.	Were you able to try both the PC-to-PC and Standalone modes	

	of transcoding?	
<b>III. iConfigure utility:</b>		
	You can create a 'configuration' file on your storage device to customize the iRecord Pro operation in standalone mode by using the iConfigure utility <sup>1</sup> .	
1.	<b>Audio codec selection:</b> Did you try recording music in formats other than default MP3, such as AAC or lossless WAV format? You can also choose different recording bit-rates for MP3 (from 128 Kbps to 320 Kbps).	
2.	<b>Recording Duration:</b> Did you verify if AV recording stops automatically as per recording duration set? By default, the recording continues till the storage runs out or the recording is stopped manually.	
3.	<b>Scheduled recording (iPods only):</b> Were you able to verify working of scheduled recording for iPods?	
4.	<b>Synchronization:</b> Could you move files recorded by iRecord Pro to your PC/Mac and iTunes library using the synchronization feature? Please note that the synchronization works only for iRecord Pro recorded files.	
<b>IV. iRecord Firmware update utility:</b>		
1.	Did you try firmware upgrade process through this utility? Was it easy to do so?	

<sup>1</sup>**NOTE:** Please note that the configuration information is not stored on iRecord Pro. It is stored on the storage medium (iPod, PSP, flash drive) to which recording is to be made. Hence, a mass storage device should be connected to PC/Mac before starting this utility. Please make sure that, before using this utility with iPod, the iPod is set to Disk Enabled Mode by iTunes.

## 4. Reviewers Please Read

### IMPORTANT

1. It takes anywhere from 5 to 30 seconds to recognize a USB storage device, depending on the capacity of the storage device.
2. To use iRecord Desktop software Windows users must have **administrative rights** whereas Mac users only need it when installing the utility.
3. When iRecord is connected to a PC or Mac, the record button on the device is not functional. You have to start iRecord-PC or iRecord-Mac recording application on your PC/Mac via iRecord Desktop Software, and press record button in that application.
4. By default iRecord Pro will record in D1 (720x480) resolution to a USB flash drive or hard disk. To record in other resolutions, use iConfigure utility of iRecord Desktop software to create a configuration file on USB flash drive or a hard disk.
5. For audio-only recording, if not recording using the audio only button of the remote control, video cable should not be connected to iRecord Pro.
6. When iRecord Pro is connected to your Mac, an error will appear on the screen, "The disk you inserted was not readable by this computer." Please ignore this error message. iRecord Pro appears as an unformatted USB disk to the Mac, therefore Mac gives this error. This is normal behavior.
7. iTunes is set to manual mode, when iPhone or iPod is attached to PC or Mac after recording using iRecord Pro. This prevents accidental synchronization by iTunes to avoid deletion of the files recorded by iRecord Pro. This can occur if you sync your iPod with iTunes, since files recorded by iRecord Pro are not present in the iTunes local library. You can still move your other contents from iTunes to iPod in manual mode.
8. Using iRecord Desktop, users can move the files recorded via iRecord from iPod or USB drive to iTunes library using the 'synchronization' feature.

A detailed list of FAQs is available at [www.irecord.com/faq.aspx](http://www.irecord.com/faq.aspx)

## Appendix

### ***I. iRecord Pro Technical Specifications***

<b>Audio</b>	
Line-in Connectors	Analog (RCA)
Encoding Formats	MP3 64-320 kbps; AAC 128 kbps; WAV, FLAC
Automatic Track Splitting	User definable using iRecord Desktop
<b>Video</b>	
Input Connectors	Composite Video (RCA); S-video
Encoding Format	H.264 / AVC
Output Resolution	D1 (720x480/576), VGA (640x480), iPhone (480x320), PSP (480x272), QVGA (320x240)
Input Video Standards	NTSC, PAL and SECAM with auto-detection
Aspect Ratio	4:3 and 16:9
De-interlacing	Automatic de-interlacing
Inverse Telecine	Automatic inverse telecine to enhance the quality of NTSC movie recordings
MPEG-2 Transcoding	Transcoding of MPEG-2 into H.264 on both Windows and Mac platforms
<b>General</b>	
USB 2.0 Host Port	Enables the connection of portable media devices, USB flash memory and USB hard drives as iRecord client devices
USB 2.0 Device Port	Enables the connection of iRecord Pro to Windows PC or Mac for recording, streaming and transcoding
Recording Timer	Recording timer for 30, 60, 120 and 180 minute recordings
Remote Control	A/V Record Start; Audio-only record Start; Record Stop; Pause; Timer (30, 60, 120 & 180) minutes
Power Adapter	Universal input 100-250v 50-60Hz, 5v D.C. output

## **iRecord Pro Video Recording Resolutions and Bit-Rates (with AAC audio at 128 kbps)**

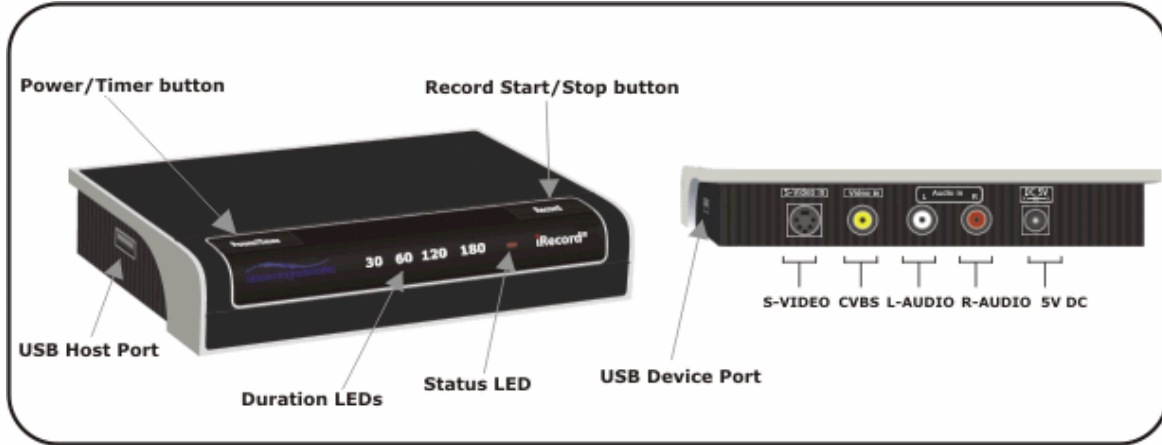
<b>Device</b>	<b>Default Resolution (Avg. Bit-rate)</b>	<b>Alternative Resolution (Bit-rate)</b>
iPod	640x480 / 1.5 Mbps	320x240 / 768 Kbps
PSP	480x272 / 1.0 Mbps	320x240 / 768 Kbps
3G iPhone	480x320 / 1.0 Mbps	320x240 / 768 Kbps
iPhone	480x320 / 1.0 Mbps	320x240 / 768 Kbps
iPod touch	480x320 / 1.0 Mbps	320x240 / 768 Kbps
Walkman	320x240 / 768 Kbps	320x240 / 768 Kbps
NTSC recording on USB drives	720x480 / 2.5 Mbps	640x480 / 1.5 Mbps
PAL recording on USB drives	720x 576 / 2.5 Mbps	640x480 / 1.5 Mbps

## **iRecord Pro Audio Codec & Recording Bit-Rates (Audio only)**

<b>Audio Encoder Selection via iRecord Desktop</b>	<b>Default Avg. Bit-rate for 2 channels</b>	<b>Avg. Bit-rates setting via iRecord Desktop</b>
MP3	192 kbps (standalone mode)	128, 224, 256 & 320 kbps
AAC		128 kbps
WAV		Loss less
FLAC		Loss less

## II. *iRecord Pro Connectors, Buttons and Status LED*

The following image and tables provide information about the buttons, connectors and status LED states during operation of the iRecord Pro.



### Buttons and Connectors

<b>Power / Timer button:</b>	<ol style="list-style-type: none"> <li>1. Power On-Off</li> <li>2. Set recording duration</li> <li>3. Pause-UnPause recording</li> </ol>
<b>Record button:</b>	Start/Stop recording
<b>Power On Indication:</b>	Streaming Networks logo illuminates
<b>Status LED:</b>	Indicates states of iRecord Pro's operation
<b>Duration LEDs:</b>	Indicates recording duration
<b>USB 2.0 host port :</b>	For iPod, PSP or any other USB 2.0 device
<b>USB 2.0 device port (mini-USB) :</b>	For PC/Mac USB host
<b>S-Video / CVBS video connector :</b>	S-video or CVBS video input
<b>R-Audio, L-Audio connectors :</b>	Two channel audio input
<b>Power jack :</b>	5V DC input (use provided adapter only)

### iRecord Pro States Indicated by Status LED

Status LED	Permanent ON	Blinking
Green	Ready for recording	USB storage device being detected
Orange	System waiting/busy	Audio-only recording in progress
Red	Firmware upgrade in progress	AV recording in progress
Red, Green		AV recording pause
Orange, Green		Audio recording pause
Red, Green, Orange		Firmware updated successfully

### **III. Legal**

#### **Disclaimer**

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2. It is illegal to record from DVDs or other copyrighted works that you do not own. Please do not duplicate copyrighted works if you do not own the original.
3. iRecord prevents the duplication of analog video protected with the Macrovision AGC system and will not record digital media protected with digital rights management technology.
4. Copyright laws vary from country to country; you should check your country's copyright laws before recording any copyrighted works.

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