

iRecord[®] Pro

PMR-200



In one touch... iRecord

Personal Media Recorder

USER MANUAL



iRecord® Pro User Manual

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Important Safety Information

- 1) Read these instructions. Keep these instructions.
- 2) Use the product in accordance with the manufacturer's instructions.
- 3) Insert appropriate country specific plug before using the AC power adapter.
- 4) Clean only with dry cloth.
- 5) Do not use near any heat sources.
- 6) Place it on a flat surface.
- 7) Only use accessories provided/specified by the manufacturer.
- 8) Unplug this product during lightning storms or when unused.
- 9) To reduce the risk of fire or shock hazard, do not expose the unit to water, rain or moisture.
- 10) In case of any damage to the product, refer all servicing to qualified personnel.

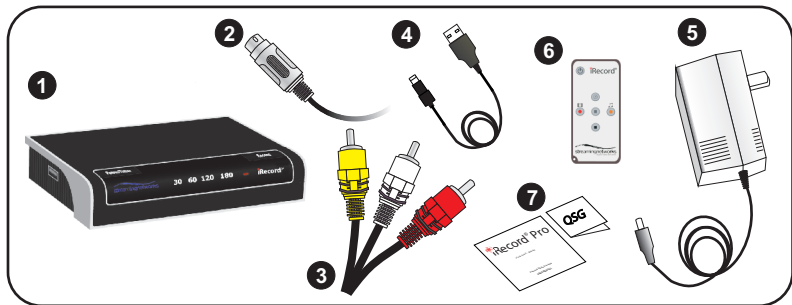
CAUTION

DO NOT CONNECT HIGH POWER AMPLIFIER
OUTPUT TO AUDIO IN OF IRECORD PRO

Note: The iRecord Pro firmware gets updated regularly as more devices are supported and to keep compatible with updates of devices themselves. The firmware update is available on the website, iRecord.com, from where it can be downloaded at your convenience.

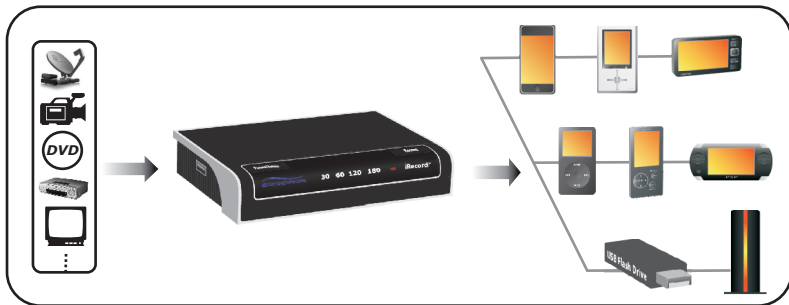
Congratulations and thank you for purchasing the iRecord® Pro Personal Media Recorder.

Check the iRecord Pro Box Contents



1. iRecord Pro Device
2. S-Video Cable
3. RCA Audio/Video Cable
4. USB Device Cable
5. Power Adapter
6. Remote Control
7. User Manual and Quick Start Guide

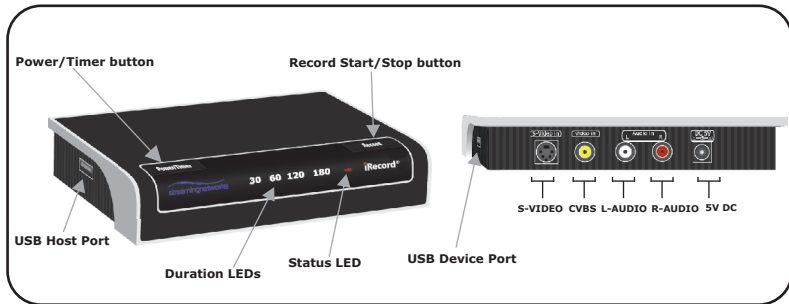
Overview



iRecord Pro is a Personal Media Recorder that records DVD quality video and audio data onto USB mass storage devices, including iPhone®, iPod®, PSP®(PlayStation® Portable) and Video Walkman®. Simply connect the iRecord Pro device to any analog video or audio source to record¹ video or audio contents. The digitally recorded files can be immediately played back on your iPhone, iPod, PSP, Video Walkman or other USB mass storage device that plays audio files as MP3 or video files as MP4. The recorded audio and video (AV) contents can also be taken to other players supporting H.264 video and AAC audio in MP4 file format. iRecord Pro also records to PC/Mac® hard drives and converts MPEG contents to H.264.

¹ In accordance with the copyright laws, no recorded materials may be used for purposes other than personal enjoyment without permission from the copyright holder.

Buttons and Connectors



Power /Timer button:

Record button:

Power On Indication:

Status LED:

Duration LEDs:

USB 2.0 host port:

USB 2.0 device port (mini-USB):

S-Video / CVBS video connector:

R-Audio, L-Audio connectors:

Power jack:

Power On-Off / Set recording duration /

Pause-UnPause recording

Start/Stop recording

Streaming Networks logo illuminates

Indicates states of iRecord Pro's operation

Indicates recording duration

For iPod, PSP or any other USB 2.0 device

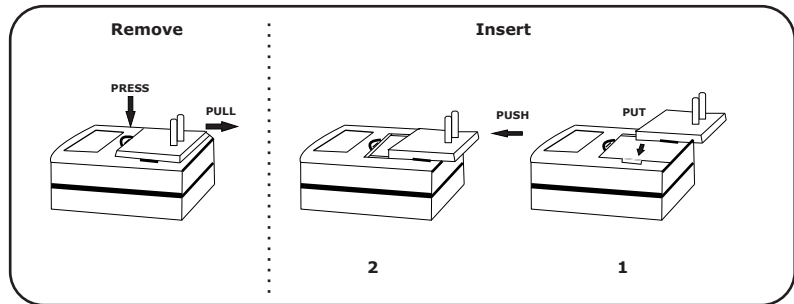
For PC/Mac USB host

S-video or CVBS video input

Two channel audio input

5VDC input (use provided adapter only)

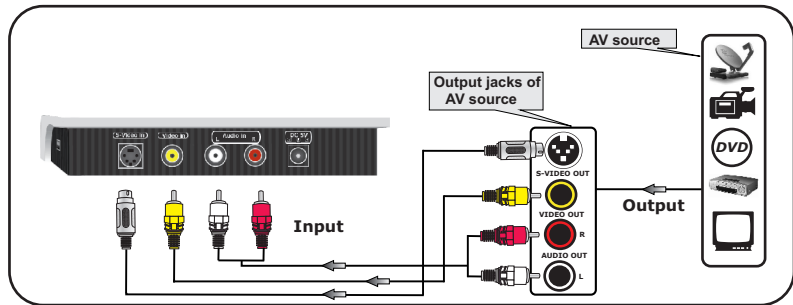
Power Adapter



The 5V DC power adapter supplied with the iRecord Pro has interchangeable pin connector to support country specific electric sockets. Choose the appropriate pin connector (in case of USA, the 2-pin connector) and insert or remove it as shown above.

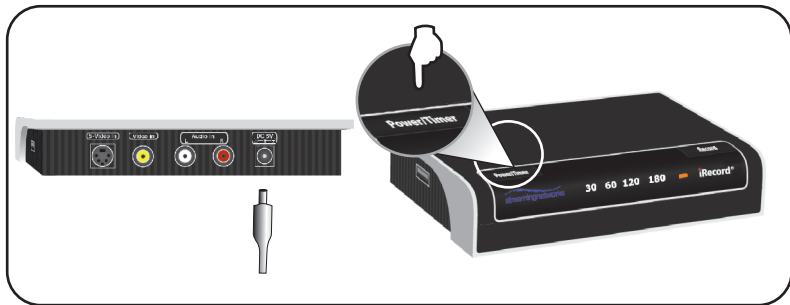
Warning: Please make sure that appropriate country specific pin connector is inserted in the power adapter before it is plugged into an electric socket.

Recording to iPhone, iPod, PSP, Walkman or USB mass storage device

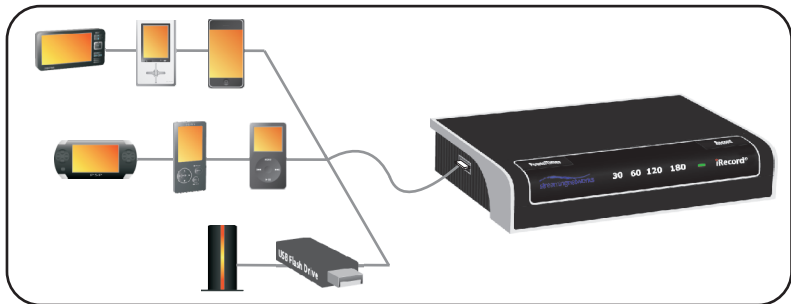


Step 1 - Connect to an AV source: Connect your iRecord Pro device to the output jacks of your video or audio source. When available, use the S-Video connector (for better video quality) instead of the CVBS RCA connector for video. If both S-Video and RCA video cables are connected then system will automatically use S-Video as video input source. The AV source² can be any device including TV, DVD player, VCR, PVR/DVR (e.g. TiVo®), cable box, satellite TV box, camcorders or other similar devices.

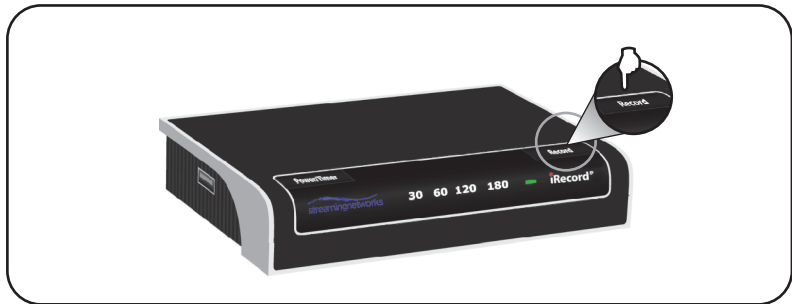
² It is illegal to record from DVDs or other copyrighted media that you do not own. Please do not duplicate copyrighted contents for use on any of your device if you do not own the original. Copyright laws vary from country to country. Streaming Networks does not encourage violation of valid rights of copyright holders. You should check your country's copyright laws before recording any video contents.



Step 2 - Power on iRecord Pro: Provide 5V DC power to iRecord Pro using the supplied power adapter. Press and hold the Power button of iRecord Pro for around 3 seconds. When the device is powered on, Streaming Networks logo will be illuminated. After around 5 seconds the status LED will also illuminate orange. The remote control (RC) can also be used to power on/off iRecord Pro. The power button on RC is located along the left side, near the top.



Step 3 - Connect iPhone, iPod, PSP, Walkman or USB Storage Device : Connect your iPhone, iPod, PSP (with Memory Stick™), Video Walkman or other USB 2.0 mass storage device to iRecord Pro's USB host port (located on the left side of the unit). Once the USB device is recognized the status LED will turn solid green to indicate that iRecord Pro is ready to record. This typically takes between 5 to 30 seconds.









Step 4 - Record: To start recording, check that status LED is solid green. Press the Record button. The status LED will momentarily turn orange, and then begin flashing. The status LED will blink red to indicate that iRecord Pro is recording video, or it will blink orange to indicate that iRecord Pro is recording audio only.

To stop recording, simply press the Record button again. The status LED will momentarily turn orange and then return to green, indicating that iRecord Pro is ready to record again. Do not remove your iPhone, iPod, PSP or USB storage device until the status LED has returned to solid green. You may power off iRecord Pro once you are finished with recording. The iRecord Pro remote control has separate keys for video(AV) recording, audio only recording and stop recording.

Pause Recording

While a recording is in progress, you can press Power/Timer button momentarily to pause the recording. Press the same button to resume recording. The iRecord Pro remote control also provides a pause button.

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

Setting Recording Duration

Before the start of any recording session, Power/Timer button can be used to set the desired recording duration of 30, 60, 120 or 180 minutes. The recording stops automatically after the end of selected duration. For timer setting, press the timer button momentarily³ and the timer LEDs will turn ON one by one. The table below shows the number of times the timer button is to be pressed to set the desired recording time and the corresponding ON/OFF states of the display LEDs. Timer key on the remote control also provides setting of recording duration in a similar fashion.

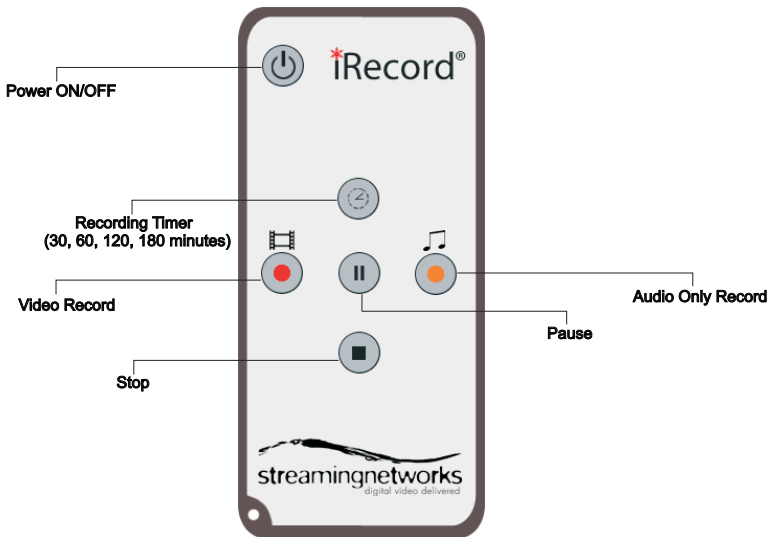
Timer Settings Indicated by Timer LEDs

Timer Button PRESSED	Recording Duration	LED 1	LED 2	LED 3	LED 4
Once (1)	30 minutes	30	60	120	180
Twice (2)	60 minutes	30	60	120	180
Three Times (3)	120 minutes	30	60	120	180
Four times (4)	180 minutes	30	60	120	180
Fifth time (5) – Also on power ON.	Default: Infinite recording of 180 minutes per file.	30	60	120	180

The timer LED status also indicates the recording duration progress. As soon as a 30/60 minute segment recording is complete the corresponding LED goes OFF.

³ For powering ON/OFF iRecord Pro, press and hold the Power/Timer button for around 3 seconds.

iRecord Pro Remote Control



Where are My Recorded Contents ?

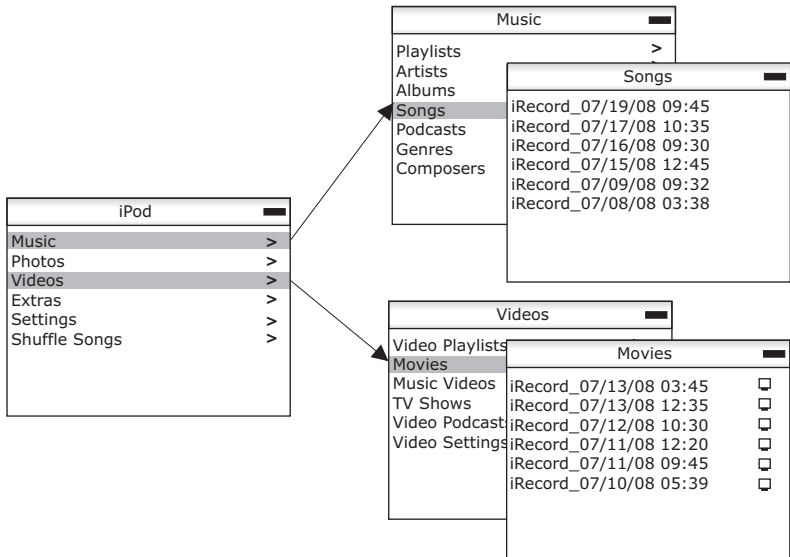
The iRecord Pro stores the files onto iPod in Lists with matching file types. Video recordings are stored in **Videos->Movies** List. Audio recordings are stored in **Music->Songs** List. The file names will be listed as iRecord_mm/dd/yy hh:mm where mm/dd/yy represents the date and hh:mm represents the time of recording.

In case of PSP the recorded audio and video contents appear in **Music** and **Video** menu of PSP respectively, from where these can be played back. The video files are stored in Video folder and audio files are stored in PSP -> Music folder on the Memory Stick. The video files are named as MAQxxxx.MP4 and audio files are named as IRECxxxx.MP3, where xxxx represents the sequence number of the recording.

In case of Walkman the **video** files appear in Video folder and **audio** recordings are stored in ROOT directory.

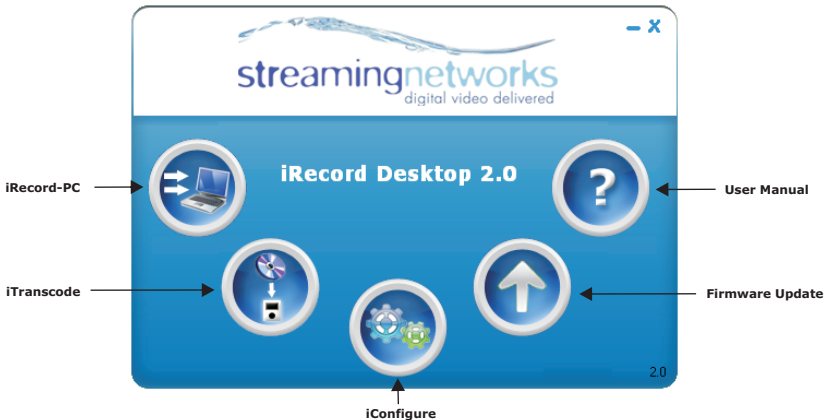
For USB mass storage devices, all files are saved in the top level folder. The file names will be in the form of iRecxxxx.MP4 for video and iRecxxxx.MP3 for audio files, where the xxxx represents the sequence number of the recording, starting with 0001.

For audio only recordings of music CD's, a separate MP3 file is created for each track.



iRecord Desktop Software

iRecord Pro can be connected to a PC and Macintosh® through its USB device port. iRecord Desktop Software for PC/Mac manages the various operations possible such as recording analog AV contents to PC/Mac hard drive, transcoding (converting digital AV contents for portable media players), configuring recording parameters for standalone operation and firmware upgradation. iRecord Desktop Software can be downloaded from iRecord.com.



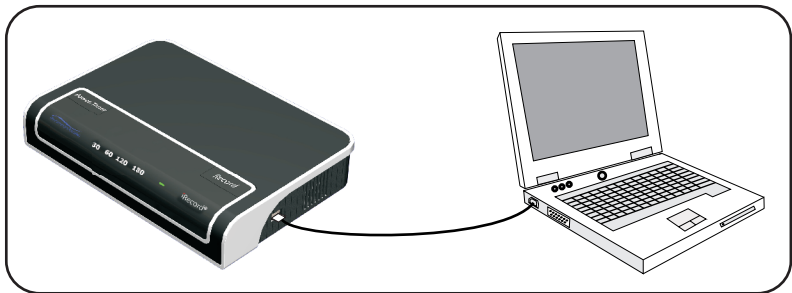
Recording to PC and Macintosh (iRecord-PC)

iRecord Pro can directly record to a PC/Mac hard drive through its USB device port (mini-USB). Recording procedure is as follows:

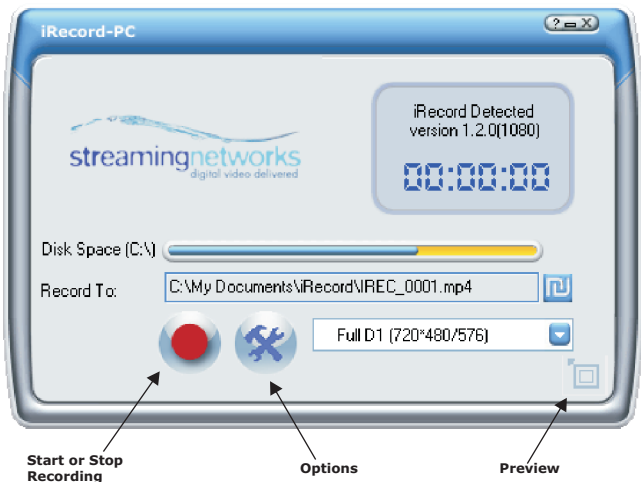
Step 1 - Connect to an analog AV source: See page 9 of this manual.

Step 2 - Power on iRecord Pro: See page 10 of this manual.

Step 3 - Connect PC, Laptop or Macintosh: Connect your notebook, PC, or Mac to iRecord Pro's mini-USB port (located on the right side of the unit) with the USB device cable provided. Once iRecord is detected as a USB device by the PC/Mac, the iRecord status LED will turn solid green. iRecord Pro is now ready for recording to the PC/Mac hard drive.



Step 4: Record: Launch iRecord Desktop Software and start the application iRecord-PC from the main menu. A message “iRecord Detected” should appear in a window (if the message does not appear, please try restarting the iRecord Desktop Software and/or iRecord Pro unit). Click on the red Record button to start/stop recording.



A number of recording modes can be selected from the drop down list. By default, it is set to 'VGA (640x480)' resolution. Default location for the recorded files is C:\Documents and Settings\Username\My Documents\iRecord.

Various recording options such as scheduled recording, recording duration time, album/artist name and recording folder can be selected by clicking the 'Options' button.

User can watch/listen to the video/audio being recorded by clicking the preview button. The recording can also be simultaneously watched from a remote PC through live streaming using QuickTime®.

Please read the iRecord Desktop User Manual for further details on live streaming, schedule recording, file splitting etc.

Converting MPEG files (iTranscode)

iRecord Pro can convert MPEG1/MPEG2 digital video (CD/DVD compatible) format to H.264 (iPod and PSP compatible) format. The iTranscode option from iRecord Desktop's main menu is used to initiate and organize the conversion. The files to be converted can reside on the PC/Mac hard drive or a removable USB storage device.

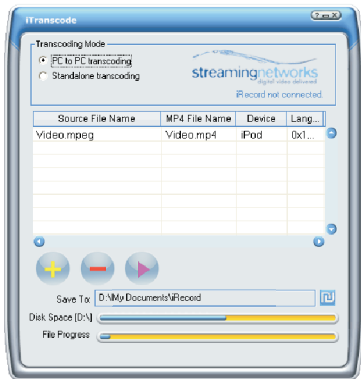
PC to PC Mode:

In PC-to-PC/Mac-to-Mac transcoding mode, the MPEG1/MPEG2 files to be converted are selected from the PC/Mac hard drive and once converted are stored back on the PC/Mac hard drive at a location designated by the user.

Standalone Mode:

In Standalone transcoding mode, the MPEG1/MPEG2 files are first transferred to a removable USB flash drive from a PC/Mac using iTranscode application. USB flash drive is then attached to iRecord Pro via USB 2.0 host port (located on the left side of the unit). iRecord Pro stores the files back on the same removable USB device after converting them.

The complete operational details for transcoding are provided in the iRecord Desktop User Manual.



Configuring Standalone Recording (iConfigure)

iConfigure option of iRecord Desktop is used to override default settings of iRecord Pro in standalone recording mode. For example, setting video resolution, changing MP3 bit rates, setting scheduled recording for iPods, controlling audio track splitting/detection etc.

iRecord Firmware Update

iRecord Pro's firmware can be upgraded by invoking iRecord Desktop's Firmware Update option.

iRecord Pro AV Formats

iRecord Pro records H.264 video at resolutions and bit-rates given in the table below. The audio segment of video files is recorded in AAC format at 128 Kbps. The file is stored in the MP4 format that can be played by iPhone, iPods, PSP, PC or Mac® computers. For playback on PC or Mac computers, use iTunes®, Quicktime® or any other player that supports MP4 files. iRecord Pro supports NTSC, PAL and SECAM video standards.

iRecord Pro records audio only input in MP3 audio format by default. AAC and WAV encoding can also be selected through iRecord Desktop Software.

Device	Default Resolution / Avg. Bit-rate⁴	Alternative⁵ Resolution / Bit-rate
iPod	640x480 / 1.5 Mbps	320x240 / 768 Kbps
PSP	480x272 / 1.0 Mbps	320x240 / 768 Kbps
iPhone	480x320 / 1.0 Mbps	320x240 / 768 Kbps
iPod touch	480x320 / 1.0 Mbps	320x240 / 768 Kbps
PS3, USB flash and hard disk drives	720x480 (576) / 2.5 Mbps	640x480 / 1.5 Mbps

⁴The actual bit-rate is dependent on scene contents being recorded and the duration.

⁵The lower resolution can be selected via iRecord Desktop Software.

iRecord Pro Compatible Devices

Device Name	Audio	Video
Apple iPod® Classic	✓	✓
Apple iPod® Video	✓	✓
Apple iPod® Nano	✓	✓ *
Apple iPhone®	✓	✓
Apple iPod® Touch	✓	✓
Apple iPod® Photo	✓	✗
Apple iPod® Shuffle	✓	✗
Sony PSP®, Video Walkman®	✓	✓
Creative Zen® Vision	✓	✗
Toshiba Gigabeat® S	✓	✗
Sandisk Sansa® (e220, e240, e280)	✓	✗
USB Flash drive	✓	✓
USB Hard disk (FAT32, HFS+)	✓	✓

* For video capable Nano (3rd Generation)

Troubleshooting

- Make sure that before pressing the Record button the input source is turned on and is providing audio or video signal to the iRecord Pro.
- Make sure that the AV cables are securely connected to both the input source and the iRecord Pro.
- If status LED does not illuminate on power up, do a power cycle again, i.e. turn off iRecord Pro, wait 10 seconds and turn on iRecord Pro.
- If your iPhone, iPod, PSP or USB storage device is not recognized by the iRecord Pro after 30 seconds (status LED does not turn green) try the following steps:
 - Remove and re-insert iPhone, iPod, PSP or USB device.
 - Reset iPod. (Please see your iPod user manual)
 - Make sure PSP is in USB mode.
- If iRecord Pro does not get detected by your PC/Mac, although the status LED shows green, please make sure that no USB device is attached to the USB host port of iRecord Pro.

Note:

- 1) To save power, the system shuts itself off automatically if no recording activity is detected for longer than 10 minutes. The system has to be switched on again manually by pressing the Power button.
- 2) While recording is in progress the Power button is disabled. This is to ensure that recording does not get interrupted accidentally.

Frequently Asked Questions

Is using iRecord Pro any different from iRecord?

Basic functionality of iRecord Pro remains same as iRecord and hence the same ease of use. Additionally, iRecord Pro now supports higher video resolution and timer based recording option. For users wishing to connect their iRecord Pro to a PC/Mac, there are many new features like recording to a PC/Mac hard drive, digital file conversion (transcoding), content streaming, and scheduled recording.

How do I record in Full D1 resolution to a USB hard disk?

By default iRecord Pro will record in VGA(640x480) resolution. If you want to record in Full D1 or other resolutions, you should use iConfigure utility of iRecord Desktop Software to create a configuration file on USB hard disk. Please see iRecord Desktop user manual, available at www.irecord.com, for details.

Can I record Full D1 resolution to iPod?

The maximum video resolution supported by iPod is VGA (640x480), and this is the default resolution for direct-to-iPod recording. However, you can record Full D1 resolution to iPod if you disable "Update iTunes database" option via iRecord Desktop Software (iConfigure). In this mode iPod will be treated like a hard disk, and files will be recorded to the root directory of iPod. They will not appear in iPod playlist.

Does iRecord Pro support Mac formatted iPods?

Yes, iRecord Pro supports Mac, as well as Windows formatted iPods.

How do I record QVGA resolution to iPod.

By default iRecord Pro will record to iPod in VGA resolution. If you want to record in other resolutions you can use iConfigure utility in iRecord Desktop Software to select appropriate resolution.

When I attach iRecord Pro to my Mac, an error appears on the screen "The disk you inserted was not readable by this computer"?

Please ignore this error. iRecord Pro appears as an unformatted USB disk to the Mac, therefore Mac gives this error. This is normal behaviour.

I connected iRecord Pro to a PC/Mac, and pressed record button on the device, but the recording did not start.

While iRecord is connected to PC/Mac, record button on the device does not work. 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.

Can I record and transcode at the same time?

No, iRecord Pro will either record, or transcode (convert from MPEG2 to H.264) at one given time.

I converted an MPEG2 file for my portable media player. The video in the converted file is fine, but the audio is in some other language.

Some video files have multiple languages, iTranscode utility in iRecord Desktop Software allows you to select a language. Please select appropriate language using iTranscode utility.

I attached iRecord Pro to my PC/Mac, the status LED is green, but it is not detected on PC.

Please make sure that no USB device is attached to the USB host port of iRecord Pro, when you connect it to a PC/Mac.

When I record an NTSC movie why does my player show a frame rate of 24 frames per second rather than 30 frames per second?

Movies are actually recorded at 24 frames per second but are displayed on NTSC systems at 30 frames per second by duplicating video fields. To enhance the NTSC movie recording quality, iRecord Pro automatically performs, so called, inverse telecine operation which removes the redundant duplicated video fields before recording. This feature does not affect non-telecined sources which are recorded at 30 frames per second or 25 frames per second for NTSC or PAL/SECAM sources, respectively.

How long will it take iRecord Pro to recognize my storage device?

It takes anywhere from 5 to 30 seconds to recognize a USB storage device, depending on the size of storage device.

Is it possible to play content from my iPod or PSP while iRecord Pro is recording onto my iPod or PSP?

No. While iRecord Pro is recording data onto your iPod or PSP, the user interface of iPod or PSP is disabled. However, when you stop the recording, you may immediately play it on iPod or PSP without detaching them from iRecord Pro.

What is the minimum size USB storage device supported by iRecord Pro?

iRecord Pro only requires that enough space be available on the USB device to store the recording. It is recommended that you have at least 64 MB free for audio recording, and 256 MB free for video recording. There is no limit to the maximum size supported by iRecord Pro. iRecord Pro will automatically stop recording when the storage device is full.

What happens if storage device has no space left and record button is pressed?

No recording will occur. The status LED will turn from green to orange and green again.

I have just purchased a new iPod, can I start recording to it with iRecord Pro right away?

You can but the recorded AV file will appear as a data file on iPod. To make the recorded files appear in the iPod's playlists, you should first configure your brand new iPod with iTunes by connecting to a PC or Mac.

When I stop recording to iPod, the status LED starts blinking red rapidly, instead of going green. The recorded file does not appear in my iPod's playlist. What is going wrong?

A mismatch between iRecord Pro firmware and iTunes on your PC or Mac is detected. Please check iRecord's website to get latest information on iRecord compatible versions of iTunes. Firmware upgrades are also provided to ensure, that iRecord Pro works with newer version of iTunes. Please check www.irecord.com to download the latest firmware upgrades.

What will happen if power is lost during recording?

Your media and your iPod or PSP will not be damaged; however, the current recording will be lost. There will be an empty file created on the storage media.

I record video or audio on my iPod but these are not visible in iTunes local library?

iTunes works in one direction, i.e. iTunes-> iPod. Hence, you will not see these in iTunes local library. You can, however, move iRecorded files to iTunes local library by using iConfigure utility that comes with iRecord Desktop Software available at www.irecord.com.

I synced my iPod with iTunes and all the recorded contents were deleted. How can I prevent iTunes from deleting my recorded contents?

While syncing, iTunes will delete all the files that are not present in iTunes local library. To prevent this, iRecord Pro enables manual mode of iTunes. You can still move your other contents from iTunes to iPod in manual mode.

I have connected my PSP, but iRecord Pro is not recognizing it. The status LED does not turn green?

1. Make sure that there is a Memory Stick inserted into PSP.
2. From Settings menu of PSP select "USB connection" option before attaching PSP to iRecord Pro.

What is the audio signal level required by iRecord Pro?

iRecord Pro requires line level input (up to 2 Vrms). Small variations are acceptable, but a high signal level may cause distortion in the recorded audio. In extreme case it can damage the unit as well. Please do not connect high power amplifier output to iRecord Pro.

I am recording a movie (audio/video stream) but I always end up with an MP3 audio file?

Check that S-video or RCA video cable is properly plugged in. Also make sure that video source is ON and contents playing.

The recorded file appears as iRecord_xx/xx/xx xx:xx in the iPod. How can I rename/delete it?

Attach your iPod to PC/Mac and browse iPod contents in iTunes (under DEVICES).

1. To delete a file, simply select it and press "Delete" key.
2. To rename a file right-click on it and select "Get Info". A dialog box will appear. Select "Info" tab and rename the file.

How should I connect mono audio source to iRecord Pro?

Mono audio source has only one audio output connector. But iRecord Pro has two audio input connectors(Left and Right channel) to support stereo audio sources. Mono audio source must be connected to Right audio input connector on iRecord Pro to get better audio quality.

I accidentally switched off the device during firmware upgrade, and now iRecord Pro will not start. The status LED does not lit up.

The iRecord Pro firmware has been corrupted due to power loss during upgrading. However, the situation can be recovered from, by using the restore mode of iRecord Pro. Power off iRecord Pro, attach it to your PC/Mac, and then press & hold the record button while powering on. iRecord status LED will turn green. Now use 'iRecord Restore' utility to restore iRecord Pro firmware to factory settings. iRecord restore utility gets installed when you install iRecord Desktop Software on your PC/Mac.

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Phone: (408) 727-3904

Fax: (408) 985-2823

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