

User's Guide

(Version 1.1)



Thank you for purchasing our watch DVR. Please read this manual carefully and thoroughly before any attempt to operate this product and retain it for your future reference.

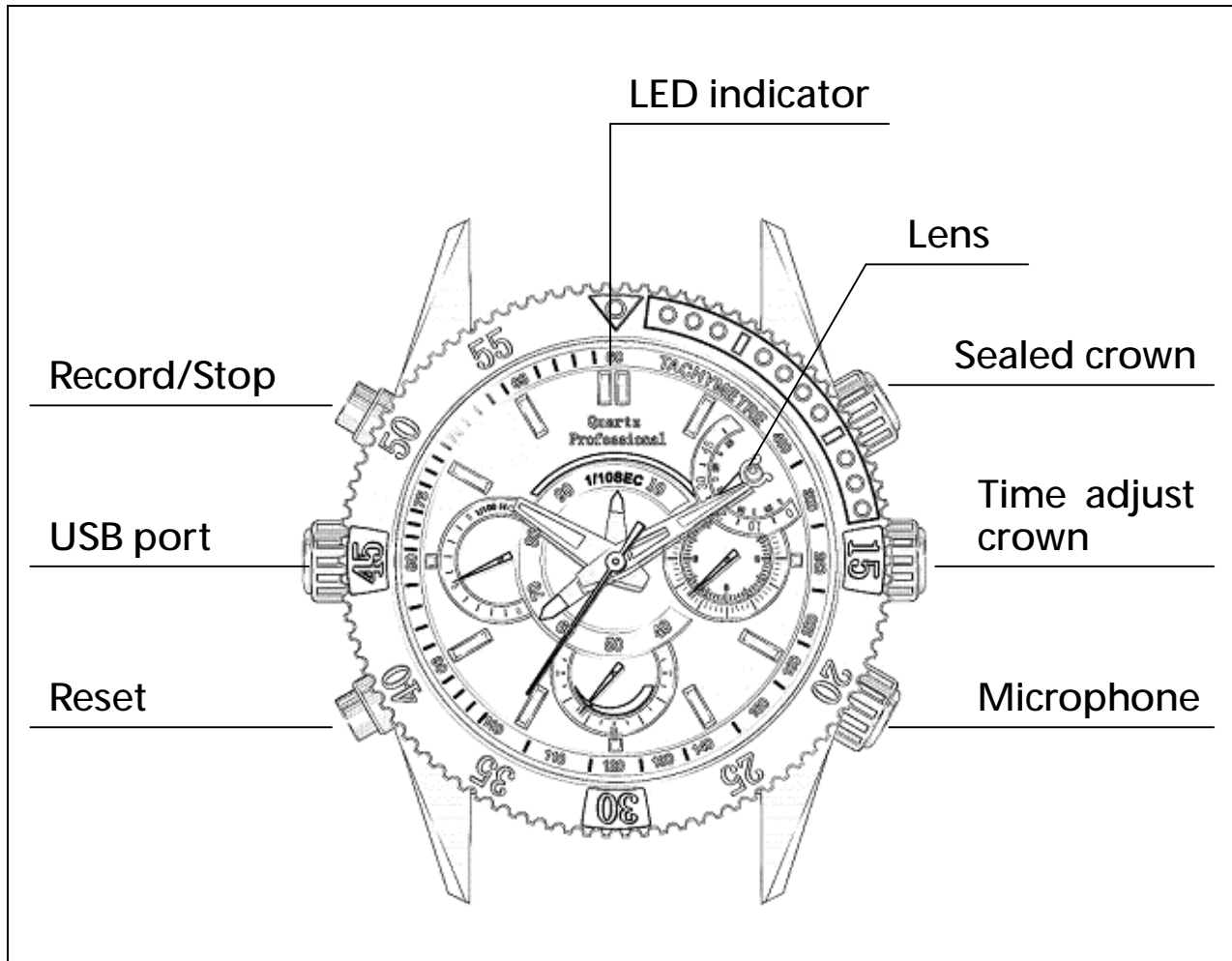
Features

- . Low illumination, high resolution video recording and photo taking
- . High speed recording and quick light response
- . Video Resolution : 1280X720/640X480/352X288 selectable
- . Photo Resolution : 1280X720
- . Motion detection auto recording
- . Voice recording function
- . Web camera for online video chat
- . Flexible use as a removable disk
- . Built-in flash memory, 2G /4G /8G optional
- . Real time display
- . Built-in Li rechargeable battery
- . Easy operation with LED indicator
- . Waterproof design, great for the pool or beach

Packing Contents:

- | | |
|---------------------|-------------------------|
| 1) · Main Unit (1) | 4) · Battery Charger(1) |
| 2) · User Manual(1) | 5) · USB Cable(1) |
| 3) · CD(1) | |

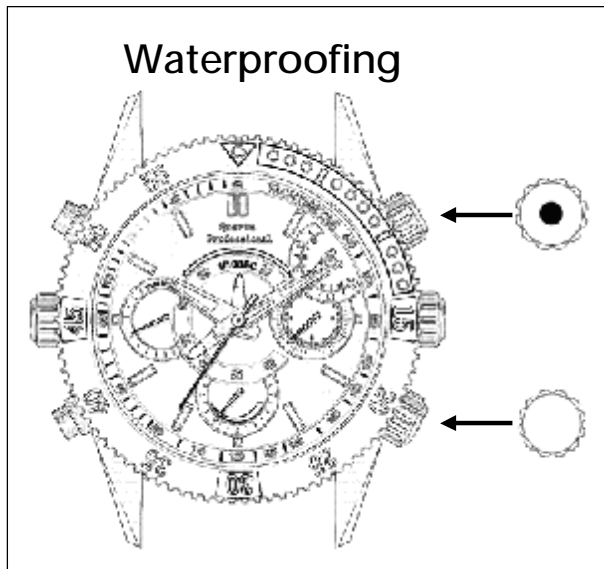
Product structure



Operation Guide

CAUTION: The waterproofing is functioned only after the appropriate setting.

Water-resistance performance : The water-resistant level of the watch is designed to 10 atmospheres. Please correctly use your watch within the design limits. To be specific, after suitable setting, you may carry on the submarine video recording steadily within the water depth 100 meters.

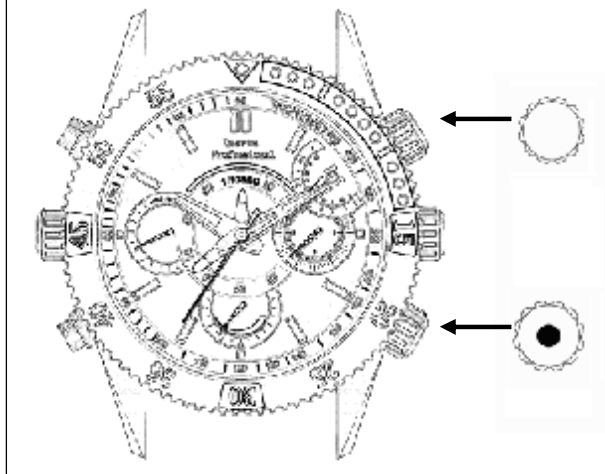


Setting for waterproof:

- 1) Put the sealed crown(without hole) to microphone position.
- 2) Screw all the crowns tightly.

After set for waterproof, no voice will be recorded because the microphone hole is sealed.

Not waterproofing



Setting for voice recording (not waterproofing):

- 1) Put the microphone crown(with a hole) to microphone position.
- 2) Screw all the crowns tightly.

1. Charge the battery

The recorder has an internal, rechargeable battery. The battery can be charged by following ways:

- 1), By connecting to computer: Open the cover of USB port, put the plug of USB cable in the watch recorder first, then put another plug in the USB port of computer.
- 2). By connecting to the battery charger.

During charging, the blue indicator blinks, when the battery's power is full, the blue indicator keeps on.

2. Turn your recorder on and recording

Press and hold the Record/Stop button for about 3 seconds till the blue indicator turns on, after a while the green indicator will blink several times and then turn off, the recorder starts video recording.

3. Video/Voice/Photo/Motion Detection mode switching:

Every time you turn the recorder on, it will start Video Recording automatically. Click the Record/Stop button once, will stop recording, the blue indicator keeps on (Video Record Standby Mode).

Enter Voice Recording Mode: When the recorder is in Video Record Standby Mode (blue indicator is on), click the Record/Stop button 2 times quickly, the recorder will enter Voice Recording Mode, and start voice recording, the blue indicator will blink slowly.

To quit the voice recording mode, just click the Record/Stop button once, the recorder will back to Video Record Standby Mode, the blue indicator keeps on.

Enter Photo Mode: When the recorder is in Video Record Standby Mode (blue indicator is on), click the Record/Stop button 3 times quickly and continuously, the recorder will enter Photo Standby Mode, and the blue and green indicators will blink alternately .

To quit the Photo mode, again click the Record/Stop button 3 times quickly and continuously, the recorder will back to Video Record Standby Mode, the blue indicator keeps on.

Enter Motion Detection Mode: When the recorder is in Video Record Standby Mode (blue indicator is on), click the Record/Stop button 4 times quickly and continuously, the recorder will enter Motion Detection Mode, and the blue and green indicators will blink slowly.

To quit the Motion Detection mode, again click the Record/Stop button 4 times quickly and continuously, the recorder will back to Video Record Standby Mode, the blue indicator keeps on.

4. Video recording:

In Video Record Standby Mode (blue indicator is on), Click the Record/Stop button once to start video recording, the green indicator blinks several times and then turn off. During recording, click the Record/Stop button again, will stop recording, and start saving the recorded video data. After data saving finished, the blue indicator turns on and waiting next recording.

If the continuous recording time is over 60 minutes, the recorder will save the current recording data, and then restart video recording automatically.

Note: For some type, the green indicator will blink slowly during video recording.

5. Photo taking:

In Photo Standby Mode (blue and green indicators blink alternately), click the Record/Stop button once to take photo, the blue indicator blinks rapidly, and two photos will be taken and saved each time. You may choose a satisfied picture from them.

Note: please keep the recorder static and not shake during photographing.

6. Motion detection auto recording:

In Motion Detection Mode (blue and green indicators blink slowly), when the object is moving in front of lens, the recorder will start video recording automatically, blue and green indicators blink faster. When the object stop moving, after a few seconds, the recorder will stop recording and save video data. When the disk space is full, it will automatically cut the earliest recorded video file, so as to preserve the new recorded video file.

Click the Record/Stop button once, will pause motion detecting, and the blue and green indicators will keep on.

7. Turn the recorder off

When the recorder is working or stand-by, press and hold the Record/Stop button down for about 3 seconds, the recorder will shut down.

Auto power off function: The recorder will shut down automatically in following three conditions:

- . The battery' s power is low. the blue indicator will blink for seconds, and then the recorder will save data and shut down automatically .
- . The memory is full. the blue and green indicators will blink for seconds, and then the recorder will save data and shut down automatically.
- . If no operation for 5 minutes in standby mode, the recorder will shut down to save power.

8. Connecting to PC

. Connect the recorder to your computer: When the recorder is shut down, you can connect the recorder to the USB port of computer. After a while, a removable disk drive will appear on the computer screen.

Note: 1). Please connect the recorder and computer firmly and securely. If no response for 30 seconds after connected, please disconnect the recorder, and reconnect again.

2). Please do not connect the recorder to computer during video recording or photo taking.

. Function as a removable disk: When connect the recorder to computer, you can copy, move, or delete files stored in built-in memory.

Note: It is highly recommended to copy the recorded video files into the hard disk of computer, and then to playback. Because of large amount of data flow, directly playback the video files stored in built-in memory, may cause the playback not smoothly.

. Function as a PC camera:

The recorder can be used as a web camera for online video chat.

Connect the recorder with your computer, after the removable disks appeared on the screen, press and hold the Record/Stop button for 3 seconds, the removable disks will disappear, after a while, the USB video device will appear on screen, now you can use the recorder as a web camera.

9. Setting time

The recorder has the function of real-time display, the date and time will be shown on the the image. You can set or correct the date and time:

- 1). Connect the recorder to the computer .
- 2). Open the file 'time.txt' included in CD, correct the date and time.
- 3). Save the file to the root directory of the recorder memory.
- 4). Unplug the recorder from the computer, turn the recorder on, the new time will be set up automatically.

10. Setting video resolution

Three kinds of video resolution can be set according to the different needs: 1280x720 · 640x480 · 352x288.

- 1), A sample file "framesize.txt" is included in CD, you can open it and change the digit for different video resolution:
0 for 1280x720;
1 for 640x480;
2 for 352x288;

2), Connect the recorder to computer, save the modified file to the root directory of the recorder memory.

4), Disconnect the recorder from computer, turn the recorder on, the new video resolution will be set up automatically.

11. Reset the recorder

In case of system broken down or hung up, please reset the recorder by pressing both the Reset button and Record/Stop button once in same time.

The recorder will work normally again.

12. Watch time adjusting

- 1). Pull the crown out to the time correction position.
- 2). Turn the crown to move the minute hand to set the correct time.
- 3). Securely return the crown to the normal position.

13. Specifications

Dimension :	52mm×45mm×15mm(approx.)
Weight :	100g(approx.)
View Angle :	62°
Minimum Illumination :	1 Lux
Video Format :	AVI
Resolution :	1280×720/640x480/352x288 selectable
Frame Rate :	≥20fps
Photo Image Format :	JPG 1280x720
Voice Sampling :	16bit
Operation System :	2000/XP/Vista
USB Interface :	USB 2.0
Battery Charge :	DC 5V
Store Temperature :	-20° - 80°
Water-resistant level :	10 atmospheres

(Specifications are subject to minor change with upgrade and update. Please base on real object.)

Care and maintenance

Your device is a product of superior design and craftsmanship and should be treated with care. The following suggestions will help you protect your warranty coverage.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, allow it to dry completely.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.

*Please follow State' s law. Do not use the recorder illegally.

使用说明书

(Version 1.1)



感谢您购买本产品。在开始使用之前，务必请仔细阅读本说明书，以免因不当操作而造成损坏。

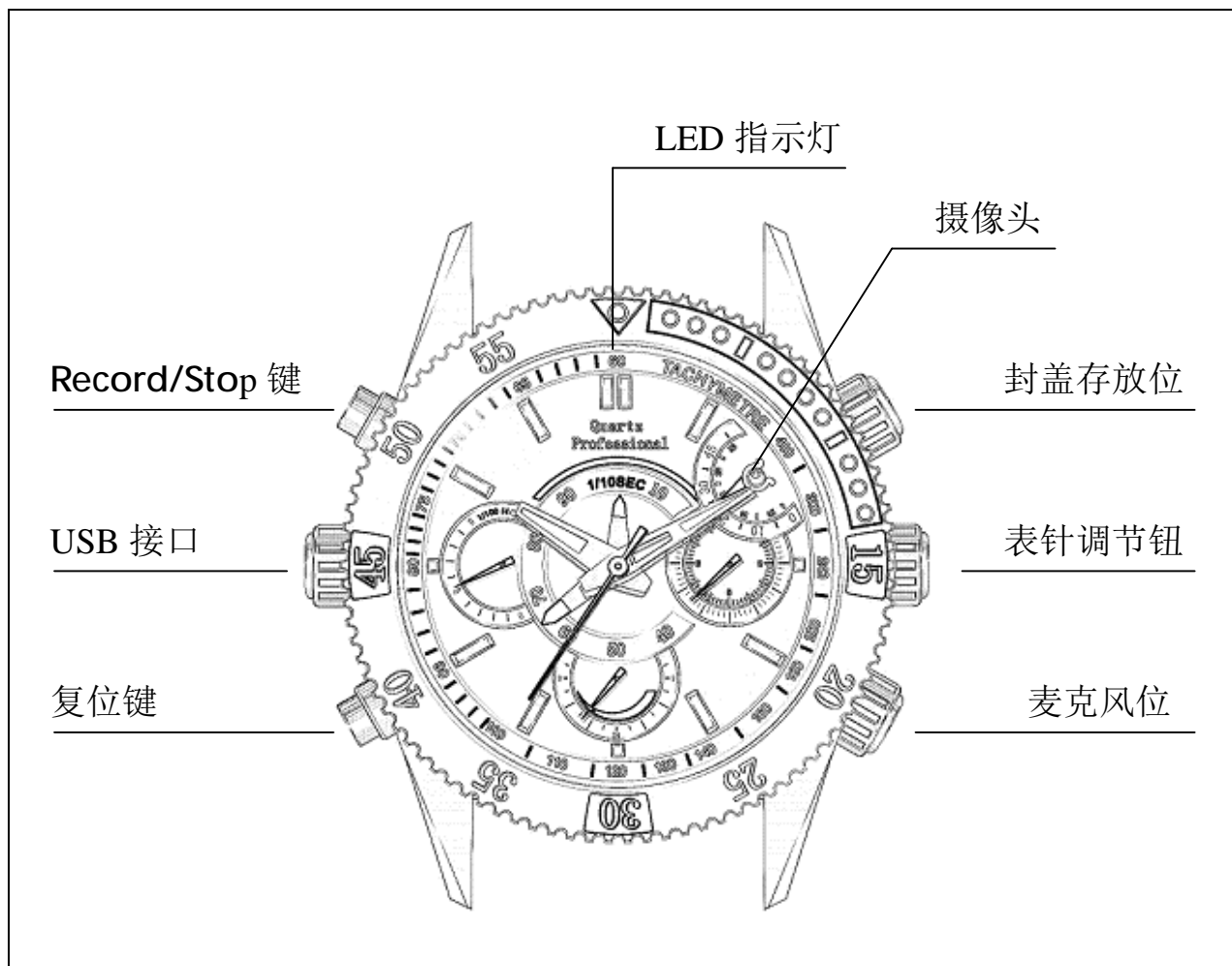
产品特点：

- ． 高清晰、低照度录像/照相
- ． 高速动态录影，明暗环境瞬间适应
- ． 视频分辨率：1280x720/640x480/352x288 可选
- ． 照片分辨率：1280x720
- ． 先进的图像压缩技术, 节省存储空间
- ． 移动侦测，自动录像
- ． 可连接电源，长时间监录
- ． 单独录音功能
- ． 可以用作电脑摄像头，便携式优盘
- ． 内置大容量存储器，2G/4G/8G 可选
- ． 傻瓜式操作，一体化灯控指示
- ． 表式设计，方便各种场合使用
- ． 具备防水功能（需设置）

产品及配件清单：

1. 录像表
2. USB 数据线
3. 使用说明书
4. 光盘
5. 充电器

产品结构:

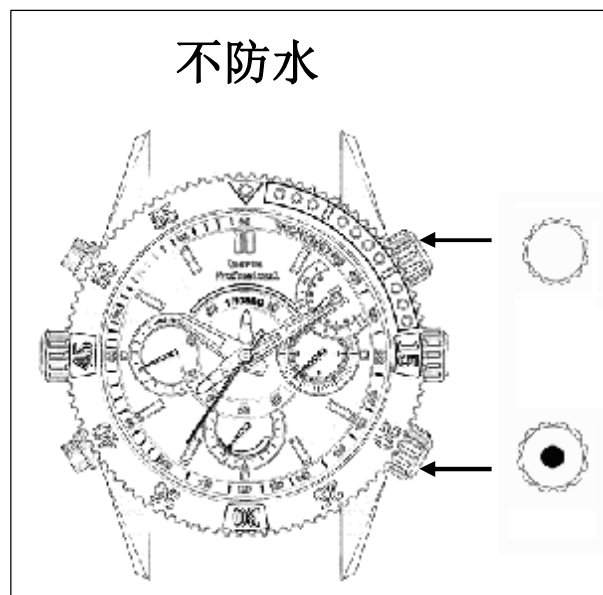
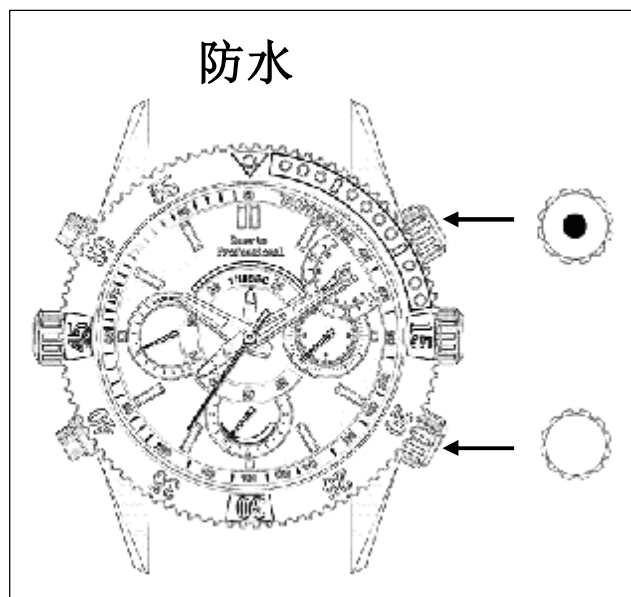


主要功能操作指引

防水功能重要说明：本产品必须经过适当设置后才具备防水功能。

防水能力：本产品的防水等级为 10 个大气压，使用时请勿超过此设计极限。具体地说，在适当设置后，你可以在水深 100 米之内平稳地使用本产品进行水下摄像。

防水设置：必须把麦克风位置上的有孔封盖更换为密封封盖。注意将各个封盖拧紧。参考下图。



提示：

- 1) 设置成防水功能后进行摄像时，由于麦克风孔被密封，因此无法录得声音。
- 2) 正常录音录像时，可将麦克风位置上的封盖换回有孔封盖，以便声音进入麦克风。但切记此时已不能防水，因此不能暴露在雨水等潮湿环境下使用。
- 3) 更换封盖时，可将从麦克风位上换下的封盖放到封盖存放位上，以免丢失。

1. 充电

首次使用时，请先将手表录像机内置锂电池进行充电。可以通过以下方式充电：

1)，连接电脑充电。拧开 USB 接口上的封盖，先把 USB 数据线的耳机插头（四分头）插入手表录像机，再把另一头（USB 头）插入电脑 USB 口，即可充电；

2)，用充电器充电。用 USB 数据线，先把耳机插头（四分头）插入手表录像机，再把另一头（USB 头）插入充电器，然后把充电器插入市电插座，即可充电。

充电时，蓝灯闪烁，当内置锂电充满电时，蓝灯常亮。

注意：1). 必须使用随机配置的 USB 连接线，禁止使用其他任何不明连接线，否则引起的任何后果自负。
2). 在连接电脑或充电器时，一定要先把数据线的耳机插头（四分头）插入手表录像机，然后再把另一头（USB 头）插入电脑或充电器。

2. 开机并录像

长按 **Record/Stop** 键约 3 秒，直到蓝色指示灯亮起，表示手表录像机处于准备状态，接着绿色指示灯闪烁数次并熄灭，手表录像机开始录像。

请在有充足照明的环境下，使手表“12”字位朝向正下方，手表“6”字位朝向正上方，与被摄景物保持 50cm 以上的距离，这样将会得到方向正确、色彩自然、画面清晰的影像。

当录像进行时，短按一下 **Record/Stop** 键，即可停止录像，并自动保存文件，保存完成后蓝灯恢复长亮。如需继续录像，请再次短按 **Record/Stop** 键。

当录制时间超过 60 分钟时，为确保录像文件的安全，机器将自动保存文件，并在保存完成后自动继续录像。

注意：有的机型在录像时绿色指示灯不熄灭，慢速闪烁。

3. 录像/单独录音/照相/移动侦测 模式切换

每次开机时，机器自动进入录像状态。短按一下 **Record/Stop** 按钮，进入录像停止状态。

进入单独录音模式：在录像停止状态下，此时蓝灯长亮，快按 **Record/Stop** 按钮 2 次，指示灯由蓝灯长亮变为蓝灯闪烁，即已进入单独录音状态并开始录音。再次按一下 **Record/Stop** 按钮，退出录音状态，指示灯变为蓝灯长亮，返回到录像等待状态。

进入照相模式：在录像停止状态下，此时蓝灯长亮，连续不间断快按 **Record/Stop** 按钮 3 次，指示灯由蓝灯长亮变为蓝灯和绿灯交替闪烁，机器即已进入照相等待状态。退出照相模式，请再次连续不间断快按 **Record/Stop** 按钮 3 次，指示灯变为蓝灯长亮，即已回到录像等待状态。

进入移动侦测模式：在录像停止状态下，此时蓝灯长亮，连续不间断快按 **Record/Stop** 按钮 4 次，指示灯由蓝灯长亮变为蓝灯和绿灯同时慢闪，即已进入移动侦测状态。退出移动侦测模式，请再次连续不间断快按 **Record/Stop** 按钮 4 次，指示灯变为蓝灯长亮，即已回到录像等待状态。

4. 照相

在照相模式下，此时蓝灯和绿灯交替闪烁，将镜头对准拍照对象，短按一下 **Record/Stop** 按钮，指示灯变为蓝灯快速闪烁，机器开始拍照。每短按一次按钮将连续拍摄两次，并形成两个图片文件，使用者可以从中挑选一张效果满意的图片。拍摄完毕后指示灯将变回蓝灯和绿灯交替闪烁，等待下一次拍照。

在拍摄过程中，请保持机器静止不晃动，以获得效果良好的照片。

5. 移动侦测监录

在移动侦测模式下，蓝灯和绿灯同时慢闪。当镜头前方有物像移动时，即自动开始录像，此时蓝灯和绿灯同时较快闪烁。当镜头前方物像静止时，数秒后自动停止录像，并保存录像文件。当磁盘空间满时，会自动删去最早监录的录像文件，以便保存新监录的录像文件。

在侦测监录状态下，按一下 **Record/Stop** 按钮会暂停侦测，此时蓝灯和绿灯同时长亮。再次按一下 **Record/Stop** 按钮，恢复侦测监录状态。

6. 关机

当机器处于工作状态时，长按 **Record/Stop** 按钮约 3 秒，松开按钮，待指示灯熄灭表示机器已经关机。

． 自动关机功能：

在下列情况下，录像机将自动保存录象数据，并自动关机：

- ． 当录像机内置锂电电量不足时，蓝灯将连续闪烁数秒后，机器将自动保存录像文件，并自动关机；
- ． 当录像机磁盘空间满时，蓝色和绿色指示灯同时闪烁数秒后，机器将自动保存录像文件，并自动关机；
- ． 当录像机处于等待状态，5 分钟内没有任何操作，机器将实现自动关机，以节省电力。

7. 连接电脑

在关机或待机状态下，即指示灯熄灭或蓝灯长亮时，可以连接电脑。

把本机插入电脑 USB 口，数秒后电脑将会弹出可移动磁盘标识，蓝色指示灯将闪烁（电池未满时）或蓝灯长亮（电池满时）。拔出录像表时，请点击右下角任务栏的可移动设备管理图标，在里面卸载该可移动存储设备，待系统确认可以安全拔出硬件后，再断开录像表与电脑的连接。

提示：在把本录像表连接到电脑后，如果电脑无法识别，或 30 秒后仍未弹出可移动磁盘标识，请重新拔插一次。注意把插头插紧。有的台式机前部的 USB 口驱动力不足，可以尝试把本录像表插到后部的 USB 口。

． 可以应用为 U 盘：

本机可以作为一个 U 盘使用，可自由进行文件的复制、剪贴、删除等操作。

． 可以应用为电脑摄像头：

按照上述方法把本机连接到电脑，等到可移动磁盘符号出现后，长按 **Record/Stop** 按钮 3 秒钟（蓝色指示灯熄灭），可移动磁盘符号消失，USB 视频设备符号出现，这时该产品即可作为一个电脑摄像头使用。

8. 时间设置

本机提供了在视频及图片文件中显示摄像时间的功能，格式为：年-月-日 时：分：秒，设置时间方法如下：

按照这个格式“20090806153000”编辑一个文本文档（即4位“年”，两位“月”，两位“日”，两位“小时”，两位“分钟”，两位“秒”。）把这个文本文档保存成一个文本文件，文件命名为”time.txt”。把这个文件通过连接电脑放到本机内置磁盘的根目录下，断开电脑连接，再重新开机，机器的系统时间将被重新设置。

在附带的CD中，有一个Time.txt文件，您可以直接打开该文件，进行时间修改。

9. 录像分辨率设置

本机可设置3种视频分辨率：1280x720，640x480，352x288，根据不同需要，可以自由设置，方法如下：

编辑一个文本文件，内容为0时，分辨率设置成1280x720；内容为1时，设置成640x480；内容为2时，设置成352x288。把这个文本文件命名为”FrameSize.txt”，并把文件通过连接电脑放到本机内置磁盘的根目录下，断开电脑连接，再重新开机，视频分辨率将被重新设置。

在附带的CD中，有一个FrameSize.txt文件，您可以直接打开该文件，进行修改。

10. 复位

当产品因某种原因不能正常工作时，可对产品进行复位。复位操作需要复位键和**Record/Stop**键联合实现，具体实现方法是：复位键和**Record/Stop**键同时按一下，实现一次复位操作。

11. 手表时间调节

- 1) 把表针调节钮拉出到调节位置；
- 2) 旋转调节钮，移动表针到正确时间；
- 3) 把表针调节钮推回到原始位置。

12. 产品规格

尺寸（主体）：	约 52mm×45mm×15mm
重量（主体）：	约 100g
镜头视角：	62°
最小照度：	1 Lux
视频格式：	AVI
图象分辨率：	1280x720/640x480/352x288 可选
视频帧速：	≥ 20 帧/秒
图片格式：	JPG 1280x720
录音采样率：	16bit
接口类型：	USB 2.0
支持操作系统：	2000/XP/Vista 32
储存温度：	-20° - 80°
电池类型：	高容量聚合物锂电
充电电压：	DC 5V
连续录制时间：	约 100 分钟
防水等级：	10 个大气压

（上述参数系实验室测得的平均值，以实物为准。）

注意事项

- 丨 请严格遵守国家相关法令，不得将此产品用于任何非法用途，否则后果自负。
- 丨 在自然温度下使用，请勿在人体不能适应的温度下工作。未做防水功能设置时，请勿将产品置于潮湿的工作环境，请避免使本产品淋水或暴露在雨水中。
- 丨 禁止把本产品投掷于火中，以免发生爆炸。
- 丨 请勿将摄像头直接对着太阳等超强光源，以免光学器件受到损伤。
- 丨 请勿在粉尘密度过大的环境下使用，以免镜头以及其他部件沾染粉尘，影响摄像效果。
- 丨 更多详细信息请参考光盘中补充说明。
- 丨 其他未明事宜请与当地经销商联系。