

# USER MANUAL

## Mini DV

*The smallest digital video camera in the world  
with high resolution image.*



*Memorize every wonderful moment  
with our cool recording gadget.*



Please read this user manual carefully and thoroughly before any attempt to install and operate this product and retain it for your future reference.

# TABLE OF CONTENTS

|                           |       |
|---------------------------|-------|
| INTRODUCTION.....         | 1-2   |
| Approval Information..... | 1     |
| Adapter.....              | 2     |
| OVERVIEW.....             | 3     |
| APPLICATION .....         | 4     |
| FEATURES.....             | 5     |
| PACKING CONTENTS.....     | 6     |
| PRODUCT STRUCTURE.....    | 7     |
| INSTALLATION.....         | 8-9   |
| OPERATION GUIDE.....      | 10-11 |
| SAVING FILE.....          | 12    |
| PC CAMERA.....            | 13    |
| SPECIFICATIONS.....       | 14    |

# INTRODUCTION ■■■

Thank you for purchasing MD80. MD80 has the unique, ultra-small and delicate design. It can be used in many recording situations. MD80 brings more convenience, safety and fun to your daily life.

## **Approval Information**

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

### **FCC**

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

### **CE**

This product complies with standards including **Low Voltage Device Directive 73/23/EEC**; **EMC Directive 89/336/EEC** and **R&TTE**

Directive 1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear **CE** mark.

## Adapter

This product always conforms to the authenticated AC adapter. The adapter should be marked one of the following:



### UL Mark

American power  
supply authentication



### C-TICK

Australia power  
supply authentication



### CCC Mark

China power  
supply authentication



### CE Mark

European Union power  
supply authentication



### PSE Mark

Japan power  
supply authentication



### GS Mark

German power  
supply authentication



### BS Mark

British power  
supply authentication

### NOTICE:

When using the power adapter, make sure the rating voltage on it is compatible with that of the device to avoid potential damages resulting from incorrect usage of power supply.

# OVERVIEW■■■

Along with the improvement of people's living standard and the development of picture compression and memory technology, the digital video memory has been a part of our daily life. MD80, a high-tech product, just meets a plenty of needs of people and market. It possesses a series of advanced functions including digital photography, voice memory, sound trigger recording, high speed USB data transferring and USB charging.

## **EU Environmental Protection**

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



# APPLICATION



Family entertainment recording



Interview/business meeting recording



Happy time recording



Babysitter monitoring



Home & business security recording



Evidence collection



Outdoor sports/  
Hunting recording



RC toy recording



Pet fun recording

# FEATURES ■■■

- >Thumb size alloy housing
- >Manually and sound activated recording
- >Web camera for online video chat
- >Support AVI video format
- >Low illumination, high resolution image with 2000K pixels
- >High speed recording and quick light response
- >30 frames per second for 640\*480 video output
- >Support USB1.1/2.0
- >Support 8G Micro SD card(Max)
- >Built-in Li rechargeable battery lasting for 2 hours
- >Easy operation with LED indicator
- >Flexible installation with clip and bracket

# PACKING CONTENTS ■■■



Micro SD Card



Adapter



USB Cable



CD



Pouch



Velcro



Chain

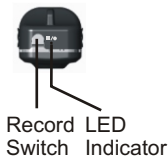
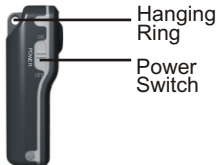
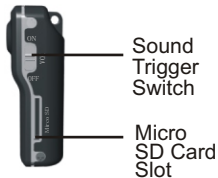


Lens Brush



Nails

# PRODUCT STRUCTURE ■■■



# INSTALLATION ■■■

1. With unique clip design and flexible installation, MD80 can be fixed on the backpack, hat, pocket, collar and other suitable locations per various monitoring demands.



Load camera into clip

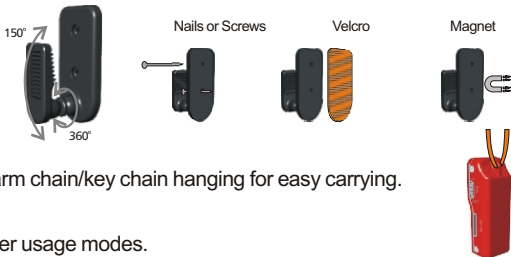


Load clip into bracket



Finished mount

2. Unique bracket design can support wide angle shooting, pan:360°, tilt:150°, bracket can be mounted with nails, screws, velcro or magnet.



3. Charm chain/key chain hanging for easy carrying.

4. Other usage modes.



# OPERATION GUIDE ■■■

1. Insert Micro SD card.
2. The indicator will be blue when the power is on.

## **NOTICE:**

- 1 The blue indicator will flash slowly when the battery is low, after 2 minutes, MD80 will power off automatically.
- 2 The indicator turns green and flash quickly when there is no Micro SD card.
- 3 MD80 will enter standby mode if it is not used for 2 minutes when battery is not low.

## 3. Recording mode

- ① Recording manually: when the sound trigger switch is off.

Press “Record Switch” to start recording when power on , meanwhile the green indicator flashes slowly.

Press “Record Switch” again to stop recording and the files will be saved as “\*.AVI” format.

## **NOTICE:**

- 1 In standby mode, press “Record Switch” once to wake up the system while the indicator displays blue color, and press “Record Switch” again to activate recording mode while the indicator displays green color and flashes slowly.
- 2 The indicator will keep in green when the Micro SD card is full.

② Sound trigger recording: when the sound trigger switch is on.

A: Turn on the power, MD80 will enter recording mode if the sound outside is up to 65 decibel.

B: MD80 will automatically enter standby mode when the sound outside is lower than 65 decibel standing for 2 minutes.

C: In the standby mode ,if the sound outside is up to 65 decibel, MD80 will enter recording mode again .

4.After recording, the files will be saved automatically.

**NOTICE:**

Turn off the power during recording, recording stream will not be saved as file.

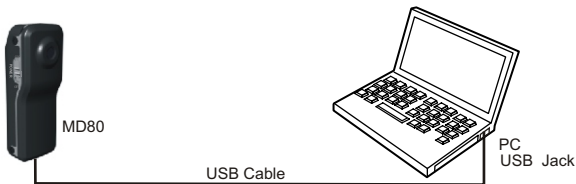
5. The indicator will show red when MD80 is powered by USB or AC adapter, when MD80 is full of charge, the indicator will go out.

6. The indicator sketch map.

| Indicator | State         | Motion         |
|-----------|---------------|----------------|
| blue      | always bright | power on       |
|           | go out        | Standby        |
|           | flash slowly  | low battery    |
|           | flash quickly | copy data      |
| green     | always bright | full of card   |
|           | flash quickly | no card        |
|           | flash slowly  | recording      |
| red       | always bright | charge up      |
|           | go out        | full of charge |

## SAVING FILE ■■■

Connect MD80 to PC by USB cable after recording, then copy the data from MD80 to PC. You also can use card reader directly.



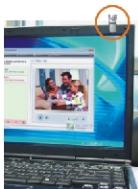
### **NOTICE:**

Pay attention to the following conditions after connecting MD80 to PC with USB cable:

1. When the power is off, MD80 can be charged and the indicator turns red.
2. You can only copy the data from MD80 when the power is on and the sound trigger switch is off.
3. MD80 can be used as a PC camera when the power is on and the sound trigger switch is on.
4. Turn off the power before plug and pull the USB cable.

## PC CAMERA ■■■

Please install the camera driver before using PC camera. After connecting MD80 to PC with USB cable, turn on the power and sound trigger switch, then a video device will appear on the PC which indicates MD80 can be used as a PC camera now.



◀ Web camera  
for video chat  
(Skype, MSN,  
QQ)

Sound trigger  
switch



### **NOTICE:**

You can only copy the data from MD80 when the sound trigger switch is off and the power is on .

# SPECIFICATIONS

|                           |   |
|---------------------------|---|
| Pixel                     | 2000000 color CMOS  |
| View Angle                | 62°   |
| Minimum Illumination      | 1Lux(min)   |
| Battery Capacity          | 260mAH  |
| Consumption Current       | 120mA/3.7V(Max.)  |
| Store Temperature         | -20°-80°C   |
| Operation Temperature     | -10°C-50°C  |
| Operation Humidity        | 15-85%RH  |
| Memory medium             | Micro SD card(TF Card)  |
| SD Capability             | Max 8GB Micro SD Card   |
| Video Function and Format | Video decode use motion JPEG,recording for AVI format.<br>VGA(640 x 480@30frame/second) |
| USB Jack                  | USB1.1/2.0  |
| Weight                    | 50g (approx.)   |
| Dimension                 | 55x28x20mm (approx.)  |
| Operation System          | 2000/XP/Vista 32  |
| Store Consumption         | 1GB per 40 min  |
| Charge Time               | 2h  |
| Standby Time              | 260h  |

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

# 用户手册

## Mini DV

全球最小的高清晰数字录像机！



随时随地录影 / 监控  
给您实时的精彩！



使用前请仔细阅读此说明书，并妥善保存，以备需要时查阅。

# 目录

|              |       |
|--------------|-------|
| 前言.....      | 1     |
| 产品保证.....    | 1     |
| 产品概述.....    | 2     |
| 运用范围.....    | 3     |
| 产品特性.....    | 4     |
| 包装配件.....    | 5     |
| 电源.....      | 6     |
| 产品结构.....    | 7     |
| 使用安装.....    | 8-9   |
| 文件存储.....    | 10-11 |
| 操作图示.....    | 12    |
| PC摄像头功能..... | 13    |
| 参数.....      | 14    |

# 前言 ■■■

感谢您购买MD80高清晰数字录像机。本产品超小、精致、独到的人性化设计配合多功能背夹使用，可夹在背包、帽子、衣服或是其他任何您想要安放的位置，实现全角度的录像/监控。

本用户手册将详细说明如何安装和使用本产品，同时提供给您详细的信息，包括安装、操作、使用注意事项及技术规格等。使用前请仔细阅读本手册并完全理解，请妥善保存本手册，我们希望它能满足您的需求并长期服务于您！

## 产品保证

本产品经FCC & CE等权威机构认证符合推荐指标，顾客使用具有安全保证。

## 产品概述 ■■■

随着人们生活水平的提高，图像压缩、图像存储技术的不断进步，数字视频存储已成为人们生活的一部分。此款产品就是针对市场、人们需求推出的一款高端MINI DV产品，该产品具有行业先进的数码摄像/语音存储、声控触发录影、高速USB数据传输、USB充电等功能。



请勿乱扔废弃物，请回收利用！



## 运用范围 ■■■



家庭娱乐/生活录影



采访/会议/商业录像



年轻一族精彩生活记录



看护小孩和保姆



家庭/商业布防录影/监控



现场取证录影



户外运动/狩猎录影



安装在遥控汽车/飞机上录影



宠物趣味录影/监控

## 产品特性 ■■■

- ＞ 超小体积合金一体化机身设计，方便各种场合轻松录影/监控；
- ＞ 声控触发录影功能，方便布防录影，更长使用时间，只录您想要的影像；
- ＞ 带PC摄像机功能，轻松享受网络生活；
- ＞ AVI格式视频录制，方便PC直接播放，轻松上传视频网站；
- ＞ 低照度，200万高清摄像头；
- ＞ 高速动态录影，明暗环境瞬间响应；
- ＞ 视频输出：640×480px 30帧/秒；
- ＞ 内置锂电池可供2小时持续使用，声控录像可使用更长时间；
- ＞ 最大支持8G存储卡；
- ＞ 傻瓜式操作，一体化灯控指示；
- ＞ Mini USB可电脑充电和影像上传下载传输功能；
- ＞ 全向背夹，配合小型万向支架使用，达到全角度录影/监控功能；
- ＞ 便捷安装方式，适合各种材质载体、复杂场景安装使用。

## 包装配件 ■■■



Micro SD卡



开关电源



USB线



光碟



包



魔术贴



挂绳



镜头刷



安装螺钉

## 电源

本产品使用通过权威认证的电源。



UL 标志  
美国电源认证



C-TICK 标志  
澳洲电源认证



CE 标志  
欧盟电源认证



GS 标志  
德国电源认证



CCC 标志  
中国电源认证



PSE 标志  
日本电源认证



BS 标志  
英国电源认证

注意: 电源使用期间, 表面可能会升温, 属于正常现象, 如需携带电源, 请将电源从插座上取出。

## 产品结构 ■■■



# 使用安装 ■■■

## 1. MD80的安装

MD80可直接手持使用，亦可安装到背夹及支架上，如下图所示，先安装背夹，再安装到支架。



## 2. 安装支架

此支架可旋转多角度，支架的底座可用钉子，魔术贴固定，可安放在您想要安装的位置。



注意：使用魔术贴时, 请在使用前12小时将支架粘贴在墙壁或是物体上, 以确保粘贴更牢固。

### 3. 吊孔的安装

MD80上吊孔的设计, 方便您装上吊绳挂在脖子上, 或利用吊扣挂在钥匙扣上, 时尚且方便。



### 4. 其它使用方式



## 操作步骤 ■■■

1. 插入Micro SD卡。
2. 把电源开关拨到ON，使MD80处于开机状态，此时指示灯会显示蓝色。

注意：

- 1 如果电池电量低，蓝色指示灯会慢闪，2分钟后自动关机；
- 2 如果未插入Micro SD卡，指示灯显示绿色快闪。
- 3 若2分钟内无任何操作，MD80将进入待机状态。

### 3. 录像：

#### ① 手动录像：开机且声控键拨到OFF位置时

在开机状态下，按一下“录影按键”开始录像，同时指示灯显示绿色慢闪；在录像时，按一下“录影按键”，停止录像，并保存为一个\*.AVI格式文件。

注意：

- 1 当卡录满时，指示灯会显示绿色长亮。
- 2 在待机状态下，按一下“录影按键”进入开机状态，此时指示灯显示蓝色，再按一下“录影按键”进入录像模式，此时指示灯显示绿色慢闪。

#### ② 声控录像：开机且声控键拨到ON位置时

a:在开机状态下，如外界的声音达65分贝以上时，MD80将自动进入录像模式进行录像；

b:若外界声音持续小于65分贝达2分钟时，MD80将自动进入待机状态；

C:在待机状态下,若外界声音再次达到65分贝以上,MD80将会再次进入录像模式进行录像.

4 录像完毕后,MD80将自动存储数据。

注意:

录影过程中,如果强行关掉电源,将无法保存此次录像数据。

5 充电:将MD80连接电脑或电源适配器均能进行充电,此时红灯会亮,充满后红灯熄灭。

6 指示灯示意图:

| 指示灯 | 状态 | 示意      |
|-----|----|---------|
| 蓝灯  | 长亮 | 开机      |
|     | 熄灭 | 待机      |
|     | 慢闪 | 电池电量低   |
|     | 快闪 | USB文件读写 |
| 绿灯  | 长亮 | 卡已录满    |
|     | 快闪 | 未插卡     |
|     | 慢闪 | 正在录像    |
| 红灯  | 长亮 | 充电      |
|     | 熄灭 | 充满      |

## 文件存储 ■■■

完成录像以后, 如下图所示, 使用USB数据线, 将所录的画面复制或剪切到电脑里播放, 同时也可将Micro SD卡取出, 使用读卡器来读取卡中的数据。



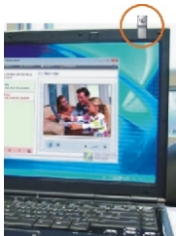
### 注意:

MD80连接到电脑时, 要注意以下几种情况:

- 1 当电源处于OFF状态, 可对MD80进行充电, 此时指示灯显示红色。
- 2 当声控开关处于OFF状态, 电源开关处于ON时, 可直接将所录的画面复制或剪切到电脑里, 此时指示灯显示蓝色快闪。
- 3 当声控开关处于ON状态, 电源开关也处于ON, MD80实现PC CAMERA功能, 可当摄像头使用。
- 4 插拔USB数据线前, 请先关掉MD 80电源。

## PC摄像头功能 ■■■

MD80亦可当PC 摄像头使用,在使用前请先安装光盘中附带的驱动软件,再使用USB数据线连接MD80与电脑,把声控开关拨到ON,再把电源开关拨到ON, MD80在电脑上会出现一个标准的视频设备,此时就可当摄像头使用。



◀ 配合USB数据线  
连接电脑,可用于  
网络视频聊天/  
通讯  
如: Skype,MSN,QQ



注意:

- 1 若在连接MD80与电脑之后, 声控开关处于OFF状态, 电源开关处于ON状态, 那么不可当摄像头使用, 只能拷贝MD80中所存储的数据。

## 参数 ■■■

|            |   |
|------------|---|
| 像素         | 200万CMOS  |
| 视角         | 62°   |
| 最小照度       | 1Lux  |
| 电池容量       | 260mAh  |
| 功耗         | 130mA/3.7V  |
| 储藏温度       | -20°-80℃  |
| 操作温度       | -10℃-50℃  |
| 操作湿度       | 15-85%RH  |
| 记忆卡类型      | Micro SD 卡(TF卡)                                     |
| 记忆卡容量      | 最大支持8G  |
| 录像功能(支持格式) | 视频编解码采用Motion JPEG，录制成AVI<br>文件格式VGA(640×480@30帧/秒) |
| USB接口      | USB 1.1/2.0   |
| 重量         | 50g(大约)   |
| 尺寸         | 55*28*20mm(大约)                                      |
| 操作系统       | 2000/XP/Vista 32                                    |
| 存储消耗       | 1GB/40分钟  |
| 充电时间       | 2小时   |
| 待机时间       | 260小时   |

规格参数可能会因升级,更新等原因而做变更,以实物为准。