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VOICE TRACER

VTR8010



VTR8010 使用手册 / User Manual

中文

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PHILIPS



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1 欢迎

欢迎来到飞利浦世界！您能选择和购买飞利浦的产品，我们非常高兴。您可在我们的官方网站上获得飞利浦公司的全方位技术支持，如：使用手册、软件下载、保修信息等。

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产品特点

- 一键录音： 仅仅拨上录音开关即可实现录音，拨下保存录音。
- 一键录像： 长按录像键即可实现录像，短按停止键保存录像。
- 以常见的 MP3 格式及 WAV 格式录音。
- 使用高速 USB 2.0 快速存取录音文件和数据。
- 声控录音功能。
- 可作为大容量的 USB 存储设备，确保最大的兼容性。
- 支持快速充电，充电 10 分钟，录音 100 分钟。

2 重要须知

安全

- 为了避免短路，切勿将产品放置在触水受潮处。
- 不要将产品放在加热设备附近或阳光直射的地方。
- 请注意，切勿挤压电缆，特别是插头处。
- 特别声明：使用本产品前请仔细阅读本说明书，如因人为操作或不可抗力因素而导致数据丢失，本公司一概不予负责。特别提醒用户小心操作，注意将资料另外备份。

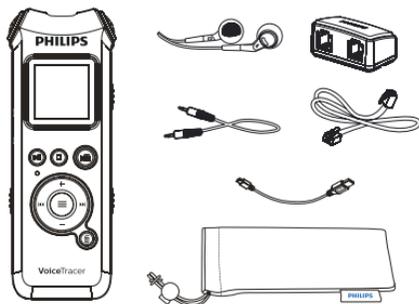
听力保护

使用耳机时请遵守下列原则：

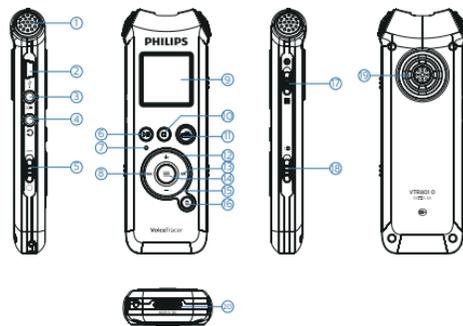
- 调整至合适的音量，切勿长时间使用耳机。
- 特别需要注意，切勿将音量调至耳朵所能承受的范围之外。
- 切勿将音量调至盖过周边环境的声音。
- 在危险情况下请小心或暂停使用耳机。
- 在驾驶汽车、骑自行车、玩滑板时，切勿使用耳机。否则会导致交通意外，且违反相关法律法规。

3 您的数码录音笔

供货范围：



概览：



1. 内置麦克风
2. USB 接口
3. 麦克风插孔, Line in 插孔
4. 耳机插孔
5. 电源开 / 关
6. 播放 / 暂停键
7. 录音 / 播放指示灯
8. 上一曲, 快退
9. 显示屏
10. 停止键, 文件夹切换键

11. 录像键
12. 音量加, 菜单项选择键
13. 下一曲, 快进
14. 菜单键 MENU
15. 音量减, 菜单项选择键
16. 删除键
17. 录音键
18. 锁定开关 HOLD
19. 扬声器
20. TF 卡插口

4 开始使用

开 / 关机

注意

- 第一次使用机器时，请对该机器充电三小时以确保机器有电工作！

- 当电源开关处于“关”位置时，则本机断开电源，不能开机。
- 当电源开关由“关”拨到“开”位置后，本机立即自动开机，显示“PHILIPS”，如下图所示。



然后进入语音文件播放停止界面，如下图所示，在此界面长按 MENU 键约 2 到 3 秒钟，机器返回主界面。



在主界面中包含有五个模块。下面五张图片分别代表：语音、音乐、视频、调频和设置模块。





注意

- 除了录音和录像过程中，在其它任何界面下，长按 MENU 键约 2 到 3 秒可返回到主界面。
- 此后，本机的开机 / 关机由“播放”键控制，具体如下。
- 关机：在开机状态下，长按“播放”键直到显示“Goodbye”关机。
- 开机：在关机状态下，短按“播放”键开机，直至屏幕上显示开机画面“PHILIPS”。



提示

- 本机使用内置锂电池供电，如果长时间不使用录音笔，请把电源开关拨到“OFF”位置。
- 如果录音笔无法正常工作，请确认机器是否已没电。
- 机器工作过程中，请勿直接把电源切断，否则会损坏文件或导致机器异常。
- 当电量指示标志为“”时，请及时充电。
- 不要在 PC 端格式化内存和卡，否则会对机器的性能产生影响。

充电方法



注意

- 充电前，请先将电源开关拨到“ON”位置。

- (1) 使用 USB 数据线将本机与 PC 相连接，如下图所示。



- (2) 使用专用充电器充电。

当采用以上方法连接后，本机进入充电状态。电量指示标志由空到满循环变化，表示本机现正处于充电状态，充电指示灯橙色灯常亮。一般情况下，充满电需要 2 小时左右。充满电时，电池符号显示满格，橙色灯灭。

按键锁定 (HOLD 功能)

- (1) 将“锁定”开关向上推至锁定位置，锁定录音笔上除了拨动录音键的所有按键。然后屏幕上短暂显示图标后，随即消失，

如下图所示。

(2) 要解除按键锁定，请将“锁定”开关向下推至 Off 位置。



连接电脑

录音笔可作为大容量的 USB 存储设备，并可方便地对文件进行存储、备份和移动。可使用 USB 数据线将录音笔与电脑相连，且无须安装软件，录音笔会自动显示为可移动设备，连接电脑图标如下图所示。



提示

- 在文件移入或移出录音笔时，请不要断开录音笔与电脑的连接。

5 录音

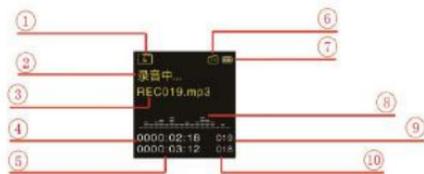
当您初次使用录音笔录音时，请注意本节中的内容说明！

- (1) 把录音键拨到录音状态开始录音；“录音 / 播放”指示灯将亮红灯； 请将内置麦克风对准音源。
- (2) 按“播放”键暂停录音，“录音 / 播放”指示灯红灯闪烁，显示屏显示“录音暂停”。
- (3) 再次按下“播放”键，继续录音。
- (4) 把录音键拨到停止状态结束录音，并回到当前录音文件的停止播放界面。

录音参考界面如下所示：



录音界面说明



- 1、当前文件夹
- 2、录音状态
- 3、当前文件名
- 4、录音持续时间
- 5、剩余可录时间
- 6、TF 卡存储器
- 7、电量指示
- 8、录音信号强度指示
- 9、当前录音文件的数目
- 10、已有文件的数目

注意

- 电池标记符显示空格时，表明低电。低电时系统会自动关机。如果正在录音，系统自动保存录音文件后再关机。电量不足时，请及时充电。低电关机时提示的图标如下所示。



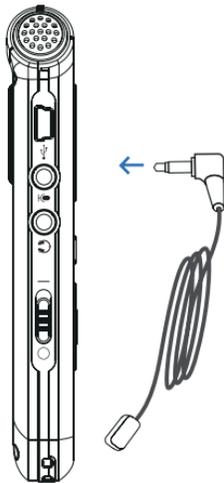
提示

- 录音前，请先设置所需的声控功能和录音类型。
- 录音文件可以在 A、B、C、D 这四个文件夹中进行存储，每个文件夹能存储 99 个录音文件，当一个录音文件夹存满 99 个后，系统会把随后录入的文件自动存储在下一个文件夹中，如果四个文件夹全部录满，要再进行录音，请先删除一些不必要的文件再录。
- 请先测试录音，以确保录音笔设置是否正确。
- 每个目录最多可存储 99 个文件，总共可容纳 396 个文件。（99 文件 x 4 目录）
- 当录音时间超过录音笔可用容量或达到最大 396 个文件数量的上限时，录音停止。请删除部分录音或将其移至电脑。
- 录音时请勿断电，否则这会导致录音笔故障，录音文件丢失或录音文件损坏等问题。
- 如果需要长时间录音，请在录音前充电。
- 录音笔在充满电后可以录音 10 个小时。

使用外置麦克风录音

当您使用外置麦克风录音时，请先将麦克风插入 Line in 插座，并按照内置麦克风的录音程序进行录音。当您连接到外置麦克风

时，内置麦克风将自动关闭。注意外置麦克风的接口一定要是双声道接口，如下图所示。



6 录像

当您初次使用录音笔录像时，请注意本节中的内容说明！

- (1) 注意：录像文件存储在 VIDEO 文件夹中，最多能存储 99 个文件。如果文件夹录满后，要再进行录像，请先删除一些不必要的文件再录。
- (2) 长按“录像”键开始录像，“录音 / 播放”指示灯将亮红灯。
- (3) 短按“录像”键暂停录像，“录音 / 播放”指示灯红灯闪烁。
- (4) 再次短按“录像”键，继续录像。
- (5) 短按停止键结束录像，并回到当前录像文件的列表界面。



提示

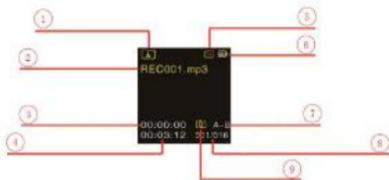
- 机器使用过程中不要在 PC 端格式化内存和卡，以免对录像造成影响，如要格式化请使用本机格式化。

7 语音模式

在主界面下，你可以使用“⏮”或“⏭”选择语音模式，然后短按菜单键确认进入。语音停止界面参考图片如下图所示：



语音文件播放界面说明：



- 1、录音文件夹
- 2、当前文件名
- 3、当前播放时间

- 4、当前文件总时间
- 5、TF 卡存储器
- 6、电量指示
- 7、A-B 复读
- 8、当前文件数 / 文件总数
- 9、播放模式

语音播放

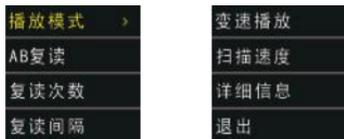
- (1) 在录音文件停止播放模式下，按“停止”键，选择所需文件夹。
- (2) 按“⏮”或“⏭”键，选择要播放的文件。
- (3) 按“播放”键开始播放，“录音 / 播放”指示灯将亮绿灯。
- (4) 使用“+”或“-”键调节音量。
- (5) 按“停止”键结束播放。在停止播放状态下，长按“菜单”键约 2 秒返回到主界面。
- (6) 播放过程中，按“播放”键暂停播放，“录音 / 播放”指示灯绿灯闪烁；再次按下“播放”键，将继续先前位置的播放。
- (7) 播放时长按“⏮”或“⏭”键，可快退或快进当前正在播放的文件。



提示

- 当耳机插入插孔内，录音笔扬声器被关闭。

选择要播放的录音文件后，短按播放键播放，在播放过程中，短按菜单键，弹出如下播放菜单列表：播放模式、AB 复读、复读次数、复读间隔、变速播放、扫描速度和详细信息。参考界面如下：



(1) 播放模式

如上图中“播放模式”菜单，再按菜单键，将会进入到播放模式选择菜单，你可以选择你需要的播放模式，参考界面如下图所示：



顺序播放：顺序播放选中目录的文件，全部播放完一遍当前目录的文件后自动停止播放。

单曲循环：一直循环播放选中的当前曲文件。

目录循环：循环播放选中目录的文件。
随机播放：随机播放当前选中目录的文件。

(2) AB 复读

在播放菜单列表中选择“AB 复读”菜单，再按菜单键将进入复读模式。AB 复读的具体操作请参考“音乐播放”部分的 AB 复读操作部份。

(3) 复读次数

在播放菜单列表中选择“复读次数”菜单，再按菜单键将进入复读次数设置菜单，通过“◀◀”或“▶▶”键调整次数，参考界面如下图所示：



(4) 复读间隔

复读间隔意思是两次复读之间的时间间隔。你可以在播放菜单

列表中选择“复读间隔”菜单，再按菜单键将进入复读间隔设置。通过“◀◀”或“▶▶”键调整复读间隔时间（单位：秒），参考界面如下图所示：



(5) 变速播放

在播放菜单列表中选择“变速播放”菜单，再按菜单键将进入变速播放设置菜单，通过“◀◀”或“▶▶”键调整播放速度，参考界面如下图所示：



注意

HPCM 和 PCM 录音文件不支持变速播放。

(6) 扫描速度

在播放菜单列表中选择“扫描速度”菜单，再按菜单键将进入扫描速度设置菜单，通过“◀◀”或“▶▶”键调整扫描速度。扫描速度是指快进或快退速度，参考界面如下图所示：



(7) 详细信息

通过该菜单可以了解播放文件的信息如比特率、采样率和总时间等信息，参考界面如下图所示：



删除文件

在播放录音文件界面下，按住删除键约 2 秒，将会显示左下图所示界面。下面为执行删除操作的相关参考图片：



使用“⏮”和“⏭”选择“YES”确认删除；“NO”保留文件，按菜单键执行命令。

8 音乐模式

在主界面中，我们可以通过“◀◀”或“▶▶”键选择音乐模块，然后，短按菜单键进入文件列表界面，文件列表参考界面如下图所示：



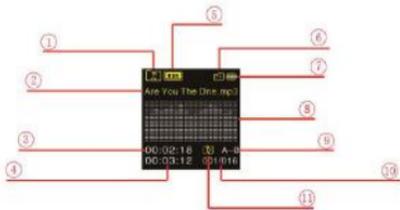
短按播放键进入音乐播放界面，音乐播放参考界面如下图所示：



注意

- 音乐文件只能放在“MUSIC”文件夹里面进行播放。

音乐播放界面说明



- 1、音乐文件夹
- 2、当前文件名
- 3、当前播放时间
- 4、当前文件总时间
- 5、音效
- 6、TF 卡存储器
- 7、电量指示
- 8、频谱
- 9、A-B 复读
- 10、当前文件数 / 文件总数
- 11、播放模式

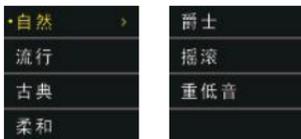
你可以使用“◀◀”或“▶▶”键选择你想听的歌曲，按播放键播放。播放过程中短按菜单键，弹出如下播放菜单列表：音效

模式、播放模式、显示模式、AB 复读、复读次数、复读间隔、变速播放、扫描速度、详细信息。参考界面如下图所示：



(1) 音效模式

在播放菜单列表中选择“音效模式”菜单，再按菜单键将进入音效模式，音效模式包括以下音效：“自然、流行、古典、柔和、爵士、摇滚、重低音”，参考界面如下图所示：



在音效模式中，你可以使用“+”或“-”键选择相应模式，再按菜单键确认。

(2) 播放模式

在播放菜单列表中选择“播放模式”菜单，再按菜单键将进入播放模式，播放模式的参考界面如下图所示：



顺序播放：顺序播放选中目录的文件，全部播放完一遍当前目录的文件后自动停止播放。

单曲循环：一直循环播放选中的一曲文件。

目录循环：循环播放选中目录的文件。

随机播放：随机播放当前选中目录的文件。

(3) 显示模式

在播放菜单列表中选择“显示模式”菜单，再按菜单键将进入显示模式，显示模式的参考界面如下图所示：



频谱：播放界面将显示歌曲的频谱。

歌词：如果机器里有相应的歌词，播放界面就会显示歌曲的歌词。

歌词同步显示

产品支持“*.lrc”歌词文件，实现歌词与歌曲同步播放。

注意

1. 歌词文件的名称与歌曲文件的名称需保持一致。
2. 如果当前歌曲有歌词文件匹配，播放界面就会显示歌词。

(4) AB 复读

在播放菜单列表中选择“AB 复读”菜单，再按菜单键将进入 AB 复读。

设置 AB 复读

- **设置复读起点：**在播放状态下，短按“菜单”键进入播放菜单，然后短按“+”或“-”键选择“AB 复读”选项，再按“菜单”键进入，返回到播放状态，但此时 OLED 屏中“A-B”的“A”

变成黄色，此时 A 点已确定。如果想重新选 A 点，短按“⏮”键确定复读起点 A。

- **设置复读终点：**设置复读起点 A 后，短按“⏭”键确定复读起点 B，此时 OLED 屏中“A-B”的 B 也变成黄色。当复读图标“A-B”都是黄色后，开始 AB 点间的反复播放；到达设定的次数后，播放返回正常播放。如需要在 AB 复读过程中退出 AB 复读，可通过以下方式退出 AB 复读：

短按“播放”键，将之前设置 AB 复读取消，并暂停播放。

短按“停止”键，将之前设置 AB 复读取消，并停止播放。

短按“菜单”键，将之前设置 AB 复读取消，并返回正常播放状态。

(5) 复读次数

在播放菜单列表中选择“复读次数”菜单，再按菜单键将进入复读次数设置菜单，通过“⏮”或“⏭”键调整次数。参考界面如下图所示：



(6) 复读间隔

复读间隔意思是两次复读之间的时间间隔。你可以在播放菜单列表中选择“复读间隔”菜单，再按菜单键将进入复读间隔设置。通过“◀◀”或“▶▶”键调整复读间隔。参考界面如下图所示：



(7) 变速播放

在播放菜单列表中选择“变速播放”菜单，再按菜单键将进入变速播放设置菜单，通过“◀◀”或“▶▶”键调整播放速度，参考界面如下图所示：



(8) 扫描速度

在播放菜单列表中选择“扫描速度”菜单，再按菜单键将进入扫描速度设置菜单，通过“◀◀”或“▶▶”键调整扫描速度。扫描速度是指快进或快退速度，参考界面如下图所示：



(9) 详细信息

通过该菜单可以了解播放文件的信息如比特率、采样率和总时间等信息。参考界面如下图所示：



删除文件

在文件列表界面下，按住删除键约 2 秒，将会显示如下界面。

下面为执行删除操作的相关参考图片：



在左边界面，使用“+”键或“-”键选择删除单个文件或所有文件；在右边界面，使用“⏪”和“⏩”选择“YES”确认删除，“NO”保留文件；按菜单键执行命令。

9 视频模式

在主界面中，我们可以通过“◀◀”或“▶▶”键选择视频模块，然后，短按菜单键进入文件列表界面，文件列表参考界面如下图所示：



短按播放键进入视频播放界面，视频播放参考界面如下图所示：



你可以使用“+”或“-”键选择你想看的视频，按播放键播放。播放过程中短按菜单键，弹出如下播放菜单列表：播放模式，扫描速度，详细信息。

(1) 播放模式

当选其中一个菜单时，相应的区域将会变成黄色。如上图选中“播放模式”菜单，再按菜单键，将会进入到播放模式选择菜单，你可以选择你需要的播放模式，参考界面如下图所示：



顺序播放：顺序播放选中目录的文件，全部播放完一遍当前目录的文件后自动停止播放。

单曲循环：一直循环播放选中的文件。

目录循环：循环播放选中目录的文件。

随机播放：随机播放当前选中目录的文件。

(2) 扫描速度

在播放菜单列表中选择“扫描速度”菜单，再按菜单键将进入扫描速度菜单，你可以使用“◀◀”或“▶▶”键选择扫描速度，按菜单键确定，参考界面如下图所示：



(3) 详细信息

通过该菜单可以了解播放文件的信息如比特率、采样率和总时间等信息，参考界面如下图所示：



所有文件：在右边界面，使用“⏮”和“⏭”选择“YES”确认删除，“NO”保留文件；按菜单键执行命令。



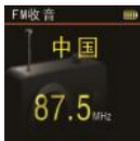
删除文件

在文件列表界面下，按住删除键约 2 秒，将会显示如下界面。
下面为执行删除操作的相关参考图片：

在左边界面，使用“+”键”或“-”键”选择删除单个文件或

10 调频模式

在主界面下，选择调频模式，再按菜单键进入调频模式。调频模式参考界面如下图所示：

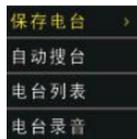


频点模式



用户模式

在调频模式下，当已经保存有电台时，则有“用户模式”和“频点模式”两个模式，通过短按“播放”键切换模式；当没保存有电台时，则只有“频点模式”一个模式。在频点模式下，短按“◀▶”或“▶▶”键选择频点，按菜单键，将会弹出如下子菜单，包括：保存电台、自动搜台、电台列表和电台录音。在用户模式下，短按“◀▶”或“▶▶”键选择已保存好的电台，按菜单键，将会弹出如下子菜单，包括：删除电台、自动搜台、电台列表和电台录音。



当自动搜台菜单被选择时，系统将会自动搜索电台，当一个电台被检测到时，这个电台将会被自动保存，并把电台号保存在电台列表里。在频点模式，你也可以通过选择保存电台菜单手动保存电台。在用户模式，选择删除电台菜单和可以删除当前保存的某一电台。机器最多只能保存 40 个电台，当有保存的电台时，我们进入电台列表可以看到这些电台，按“+”或“-”键选择电台，然后按菜单键可以进入收听选择的电台。如果你选择电台录音菜单，系统将会执行电台录音功能。电台录音参考界面如右图所示：



11 设置模式

在主菜单下，选择设置模块，再按菜单键，系统将会进入设置界面。设置界面相关参考图片如下图所示，包括：储存介质、文件夹选择、录音类型、声控设置、监听设置、分段录音、背光时间、自动关机、系统时间、定时录音、语言选择、高级。



(1) 储存介质

当插入 TF 卡时，就会多出卡存储器这一选项。通过此设置，可以选择录音文件和录像文件的存储位置。参考界面图片如下：



注意

- HPCM 和 PCM 录音的时候录音文件只保存在内置存储器。

(2) 文件夹选择

录音文件存储有 A、B、C 和 D 四个文件夹可供选择。参考界面图片如下：



(3) 录音类型

在录音类型菜单中有六种录音类型可供选择：“HPCM 录音，PCM 录音，SHQ 录音，HQ 录音，SP 录音、SLP 录音”。相关参考图片如下：



HPCM 录音 :WAV 格式，高音质，比特率为 3072kbps。

PCM 录音: WAV 格式，高音质，比特率为 1536kbps。

SHQ 录音: MP3 格式，高音质，比特率为 192kbps。

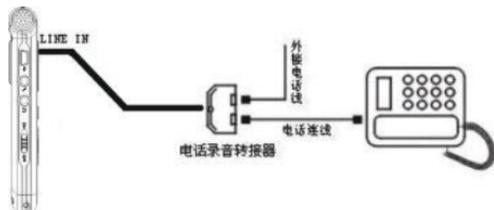
HQ 录音: MP3 格式，高音质，比特率为 128kbps。

SP 录音: MP3 格式，较好音质，比特率为 64kbps。

SLP 录音: MP3 格式，一般音质，比特率为 8kbps。

电话录音

将外接电话线及附送的电话连线分别接入电话录音转接器，操作方式和使用麦克风录音相同。



Line in 录音：

Line in 录音是通过双声道音频线，将本机与外部音源设备的音频输出接口正确连接，即可将外部音源的声音转录至本机（音源设备如收音机、CD、VCD、DVD 等）。正确操作方法为使用附送的双声道音频线，一端连接外部音源输出口，另一端接本机的“Line in”插孔。录音操作方式和使用麦克风录音相同。Line in 录音前，请把外部音源调到一个适度值，否则录出来的文件声音失真。

(4) 声控设置

声控录音功能一旦被启用，录音过程中，当机器检测到有声音时，录音笔会自动开始录音；当未检测到声音时，录音笔在 3 秒后将自动暂停录音；再次检测到声音时，录音笔又会自动开始录音。声控设置参考界面图片如下：



(5) 监听设置

监听功能打开后，你可以插入耳塞戴上去检测看是否有声音输入。监听设置参考界面图片如下：



(6) 分段录音

在录音过程中，分段录音功能可在每 30 或 60 分钟自动将录

音文件分段保存并自动进入下一个文件录音。分段录音功能参考界面如下图所示：



(7) 背光时间

背光时间有五种时长可供选择：15 秒、30 秒、45 秒、60 秒和 0。如果在设定的时间内没对机器做任何操作，背光将会自动灭。如果选择“0”，背光将会常亮。背光设置参考图片如下：



(8) 自动关机

如果在设定的时间内没对机器做任何操作，系统将会自动关机。如果时长设为 0，将不会自动关机。自动关机设置参考界面如下：



(9) 系统时间设置

系统时间设置界面，参考图片如下：



在此界面下，你可以设置系统的当前时间和系统时间显示格式。
例如：选择时间格式“时间格式”菜单，将会显示如下参考界面：



此界面下有两种时间显示格式可供选择即 12 小时制和 24 小时制。系统默认的是 12 小时制。

例如：选择 “当前时间” 菜单，将会显示如下参考界面：



在此界面下，按“+”或“-”键可以设置实时时间。按“⏮”或“⏭”键顺序选择年、月、日、时、分；按“+”或“-”键改变相应位置数值。

(10) 定时录音设置

定时录音：先预设一个时间，当系统时间到达预设时间时，系统将会自动录音。在功能菜单中，选择“定时录音”菜单，再按菜单键进入定时录音设置菜单。参考界面如下图所示：



第一个功能是定时录音时间设置功能。定时录音时间设置参考

界面如下图所示：



在此界面下，你可以设置一个时间，当系统时间到达设定时间时，系统将自动开始录音。设置方法参照“系统时间设置”。

第二个功能是录音源选择功能。你可以选择麦克风或者收音电台作为录音源，按“+”或“-”键切换选择，系统默认录音源是麦克风录音。录音源选择参考界面如下图所示：



如果选择收音电台作为录音源，按下菜单键后就会选择频点，作为定时录音的电台。

时间长度设置功能：

你可以设置 30 分钟，60 分钟，120 分钟或者没限定录音时长来设置定时录音时长。时间长度设置参考界面如下：



注：设定定时录音时，在关机状态一定要保证机器电源开关在 ON 位置，否则定时录音时间到时，无法执行定时录音。

(11) 语言选择

在语言选择菜单中，你可以选择一种语言作为系统语言。语言选择参考界面如下：



(12) 高级

高级设置界面相关参考图片如下图所示，包括：详细信息、格式化内存、格式化卡和恢复出厂设置。



详细信息：使用此功能，你可以随时查看固件版本信息和存储器的大小及剩余容量。

格式化内存：使用此功能，你可以格式化本机器内存。

格式化卡：使用此功能，你可以格式化卡存储器。

恢复出厂设置：使用此功能，你可以重置机器的设置选项。

12 常见问题

此处列举了常见问题的解答，可帮助解决录音笔出现的简单问题。如果故障仍无法排除，请咨询经销商或访问我们的官方网站 www.philips.com/support

无法启动录音笔：

电池电量已耗尽请及时充电。

录音笔无法录音：

超出录音笔允许的最大文件数量或录音笔存储空间已满。请删除部分录音或将其移至外部存储设备。

录音笔无法播放录音：

- (1) 录音笔可能处于锁定模式 (HOLD)。将“锁定”开关推至“Off”位置。
- (2) 电池电量已耗尽，请充电。

13 技术参数

存储器

内置存储空间

参考录音时间（16GB）：HPCM 录音模式约 11 小时，PCM 录音模式约 22 小时，SHQ 录音模式约 180 小时，HQ 录音模式约 270 小时，SP 录音模式约 540 小时，SLP 录音模式约 4240 小时。

内置存储器类型：NAND Flash 闪存

移动存储器（PC）：是

尺寸和重量

宽 × 高 × 深：38×104×14（mm）

重量（含电池）：80g

系统要求

操作系统：Windows 7/Vista/XP/2000，Mac OS X，Linux

接口：USB 接口

录音

34 ZH

HPCM 录音：比特率为 3072kbps，格式为 WAV

PCM 录音：比特率为 1536kbps，格式为 WAV

SHQ 录音：比特率为 192kbps，格式为 MP3

HQ 录音：比特率为 128kbps，格式为 MP3

SP 录音：比特率为 64kbps，格式为 MP3

SLP 录音：比特率为 8kbps，格式为 MP3

运行条件

温度：5° - 45° C

空气湿度：10% - 90%，不凝结

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I Welcome

Welcome to the world of Philips! We are honored by your choice and purchase of Philips' products. You can have Philips' comprehensive technical supports from our website, e.g. user's manuals, software downloading and warranty information etc.

www.philips.com

Product Features

- One-touch voice recording: Just turn on the recording switch to start recording, turn off to save file.
- One-touch video recording: Long press the video recording switch to start recording, short press the stop button to save the file.
- Record in common MP3 format.
- USB2.0 high speed data access.
- Voice-activated recording.
- USB mass storage, ensuring maximum compatibility.

2 Important

Safety

- To avoid a short circuit, do not expose the product to rain or water.
- Do not expose the device to excessive heat caused by heating equipment or direct sunlight.
- Protect the cables from being pinched, particularly at plugs.

Attention! Before using the device please read this User's Manual carefully. The company shall not be liable for any data loss due to erroneous operation or causes of a force majeure. Special attention should be given to correct operations and files back up.

Hearing safety

Observe the following guidelines when using your headphones:

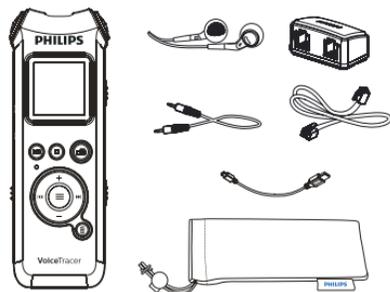
- Adjust to suitable volume, do not use the earphone for a long time.
- Please remember that do not turn the volume up beyond your tolerance.
- Do not turn up the volume so high that you can't hear

what's around you.

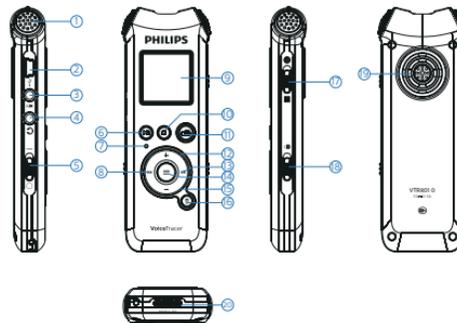
- When in dangerous environment, please carefully use the earphones or stop using.
- Do not use the earphones when driving, cycling, and skateboarding to avoid traffic accident and violating laws and regulations.

3 Your Voice Tracer digital recorder

What's in the box?



Overview



1. Built-in Microphone
2. USB Jack
3. Microphone Jack (Line in)
4. Earphone Jack
5. Power On/Off
6. Play/Pause
7. Record/Play Indicator
8. Previous Track/Fast Backward
9. Display
10. Stop Button, File Folder Switch Button
11. Video Button

- 12. Volume Up, Menu Selection
- 13. Next Track/Fast Forward
- 14. Menu Button
- 15. Volume Down, Menu Selection
- 16. Delete
- 17. Voice Record Button
- 18. Hold
- 19. Speaker
- 20. TF Card Port

4 Start To Use

Power On/Off



Note

- please recharge the device for three hours before using it for the first time!

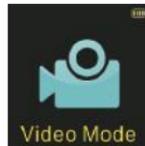
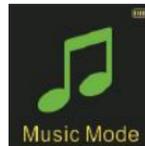
- (1)When the power switch is in OFF position, the device is cut off from power and can't switch on.
- (2)When the power switch is slid to "ON", the device starts automatically and then displays "PHILIPS", See the picture as follow:



Then the device displays the stop playing interface. On this interface, press MENU button for 2 or 3 seconds to return to the main interface.



The main interface includes five modes. The following five pictures show the modes respectively: Voice, Music, Video, Radio and Setting Mode.





Note

- When not taking voice or video recording, users can press MENU button for 2 or 3 seconds to return to main interface.
- From now on, the device's On/Off is controlled by the PLAY button as follows:
- Switch off: When in the power-on state, press the PLAY button until the "Goodbye" is displayed, and then the device is switched off.
- Switch on: When in the power-off state, press the PLAY button until the startup logo "PHILIPS" is displayed.



Note

- The device has a built-in lithium battery. If the device is idle for a long time, please slide the power switch to the "OFF" position.
- If the device cannot work normally, please make sure the device is not out of power.
- When the device is working, please do not cut off the power, otherwise damaged file or malfunction may occur.
- When the battery indicator " " is displayed, please charge the device promptly.
- Do not format memory and card on PC, otherwise negative impacts may happen to some functions of the device.

Recharge



Note

- please slide the power switch to the position of "On".

(1)Connect the device with PC through USB cable, as follows.



(2) Use the specified charger to charge the device. When using the above methods to recharge, the device will be in the state of recharging. The battery indicator shows a battery icon turning from empty to full repeatedly, indicating that the device is recharging. Under normal circumstance, the device can be fully recharged in around 2 hours. When the device is fully recharged, the battery icon is full and the orange indicator light turns off.



Note

While the device is connected to a computer, it cannot be operated manually.

Key Lock (HOLD Function)

(1) Slide the HOLD switch to lock position to lock all the buttons on the device, except the slide switch of recording. Then “Hold” is displayed for a while and disappears as shown

in the following picture.



- To unlock buttons, please slide the “HOLD” switch down to OFF.

PC Connection

The device can be used as a USB mass storage to conveniently store, back up and move files. Link the device to a computer with a USB cable. The voice recorder can automatically be recognized as a mass storage device without the need to install any software, as shown in the following picture.





Note

When moving files into or out of the device, please do not disconnect the device from the computer.

While the device is connected to a computer, it cannot be operated manually.

5 Voice Recording

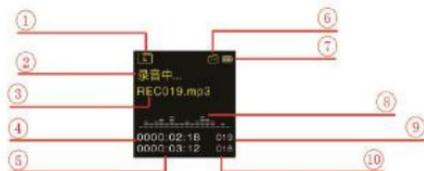
Before using the device, please read carefully the following instructions.

- (1) Slide the record switch to "REC" to start recording; the "Record/Play" indicator flickers red; please place the built-in microphone towards the source of sound.
- (2) Press "PLAY" button to pause recording, then the red light flickers, and the display shows "Pause".
- (3) Press "PLAY" button again to resume recording.
- (4) Slide the record switch to "STOP" to end recording, the device returns to the stopped playing interface of current recorded file.

Recording Interface Reference:



Illustration of Recording Interface:



- 1、 Current Folder
- 2、 Record state
- 3、 Record File name
- 4、 Current Time
- 5、 Remain Time
- 6、 TF Card Memory
- 7、 Battery
- 8、 Voice energy
- 9、 The current file's number
- 10、 Already existing file number



Note

When the low battery icon appears, it means the battery is nearly empty and the system will automatically shut down. If the device is recording, the system will automatically save the recorded file then shut down. If the device has low battery, please recharge promptly. After the device shuts down on low battery, the following icon will display.



Note

- Prior to recording, please preset the record type you need.
- The recorded file can be stored in any of the A, B, C, D folder; each folder can store up to 99 audio files. If one folder is full with 99 files, the system automatically stores the subsequent files in the next folder. In the case that all four folders are full, please delete some unnecessary files to enable recording.
- Make a test recording to make sure that the Voice Tracer settings are correct.
- Each folder can store 99 files at most, totally 396 files (99 files x 4 folders).
- If the recording time exceeds the usable storage of the device or the number of files reaches the limit of 396, the recording stops. Please delete part of recording or move it to a computer.
- When recording, please do not cut off power, otherwise loss or damage of recorded file may be resulted.
- If need to record for a long time, please charge the device before recording.
- A fully charged battery will allow you to record for 10 hours.

Use an External Microphone to record

When using an external microphone to record, please at first plug it into the Line in jack, and then record according to the procedures of recording with built-in microphone. After you plug in the external microphone, the built-in microphone is disabled. Please note that the plug of the external microphone must be stereo plug as shown in the picture below.



6 Video Recording

When you use this voice recorder to record video for the first time, please read the contents in this section!

- (1)The record video file is stored in the folder named VIDEO, which can maximally store 99 files. If the folder is fully loaded but you need to take another video record, please delete some unnecessary files before recording.
- (2)Press Video button 2Sec to start the recording. Record/Play "indicator turns red.
- (3)Press Video button to pause the recording. Record/Play "indicator flickers
- (4)Press Video button again to continue recording
- (5)Short press Stop button to stop recoring and return to the list interface of current record file



Note

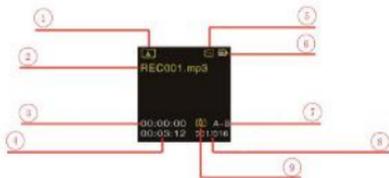
- Do not format memory and card on PC . Please proceed the formatting on the device so as to avoid any negative impacts to video record.

7 Voice Mode

On the main interface you can select the voice mode with “◀◀” or “▶▶” buttons, and then shortly press the menu button to enter. Please refer to the Voice Stop interface below:



Voice Playback Interface Specification:



- 1、 Current Folder
- 2、 Current File Name

- 3、 Current Time
- 4、 Total Time
- 5、 TF Card Memory
- 6、 Battery
- 7、 A-B Repeat
- 8、 Index
- 9、 Circulation Mode

Audio Playback

- (1) In the Stop Mode of recorded file, press STOP button to select the folder you prefer.
- (2) Press “◀◀” or “▶▶” to select a file to play.
- (3) Press Play button to start playing, “record / playback” indicator will turn green.
- (4) Press “+” and “-” to adjust volume.
- (5) Press STOP to stop playing. When the playing is stopped, press down the MENU button for about 2 seconds to return to the main interface.
- (6) When playing, press PLAY to pause, press PLAY again to continue playing.
- (7) When playing, press “◀◀” or “▶▶” for a few seconds to fast forward or backward.



Note

- If the earphone is plugged in, the speaker is disabled.

After the audio file is selected, press the PLAY button shortly to play. When playing, press shortly the MENU button to pop up the following menu list: Play Mode, AB Replay, Replay Times, Replay Interval, Variable Speed, Scan speed, Information. See the below interface reference:



(1) Play mode

As “Play mode” menu is selected, the press the “MENU” button will enter the playback mode selection, you can choose the playback mode you need to reference the interface as shown below:



Sequence: play the file selected directory in order, all played out a times the current directory’s documents to be automatic stop playing.

Repeat One: play current music repeatedly.

Repeat Folder: play all files in the selected folder.

Random: randomly play the selected folder.

(2) AB Replay

Choose “AB Replay” from the Playing Modes, then press MENU button to enter AB Replay. For operations of AB Replay please refer to AB Replay section in “Music playback”.

(3) Replay Times

Select “Replay Times” option from play menu list, then press Menu button to enter into setting menu of Replay Times. Adjust the times by “⏮” or “⏭”. The reference interface is shown as below:

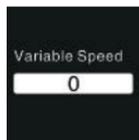
(4) Replay interval

Replay interval means the time interval between two replays. You can select "Replay interval" option in the play menu list, then press Menu button to enter into setting of Replay interval. Adjust the time of Replay interval (time unit: second) by "⏮" or "⏭" button. The reference interface is shown as below:



(5) Variable speed

Select "Variable Speed" option in play menu list, then press Menu button to enter into the menu of Variable Speed. Adjust the play speed by "⏮" or "⏭" button. The reference interface is shown as below:



Note

- Variable Speed does not support PCM recordings.

(6) Scan speed

Select "Scan Speed" option in play menu list, then press Menu button to enter into the menu of Scan speed. Adjust the Scan speed by "⏮" or "⏭" button. Scan speed means the speed for fast forward or fast backward. The reference interface is shown as below:



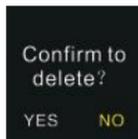
(7)Details

Get detailed information of the playing file from this menu, such as bit rate, sampling rate and total time and so on. The reference interface is shown as below:



Delete Files

On the playing music interface, press the DELETE for about 2 seconds, the interface of the following picture will appear. Below are the pictures of the deletion operations:



Press “◀◀” and “▶▶” to choose “YES” to confirm deletion, “NO” to keep file; press MENU button to execute.

8 Music Mode

From the main interface, you can choose music mode with “◀◀” or “▶▶” buttons, and then shortly press the MENU button to enter. Files list interface is as follows:



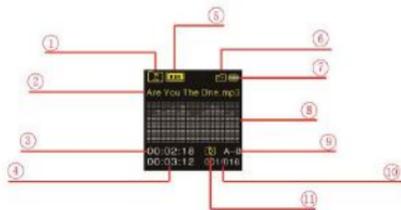
Then, shortly press the Play button to enter the music playback interface. Music playback interface is as follows:



Note

- music files can only be played when they are in “MUSIC” folder.

Music playback Interface illustration



- 1、Music Folder
- 2、Current File Name
- 3、Current Time
- 4、Total Time
- 5、EQ
- 6、TF Card Memory
- 7、Battery
- 8、Spectrun
- 9、A-B Repeat
- 10、Index
- 11、Circulation Mode

You can select the music you want to play by pressing “◀◀” and “▶▶”, then press PLAY to play the music. When playing, shortly press the MENU button, the below menu pops up with modes: EQ mode, Play mode, Display mode, AB replay,

Replay times, Replay interval, Variable Speed, Scan speed and Information. See the interface as follows:



(1)EQ Mode

From the Playing Menu list, select “EQ Mode”, press MENU button to enter. The Equalizer includes: Normal, Pop, Classic, Soft, Jazz, Rock and DBB. Refer the below pictures:



In the EQ Mode, you can choose mode with “+” and “-” buttons, press MENU button to confirm.

(2)Play mode

From the menu list, select “Play Mode”, press MENU button to enter. See the interface as follows:



Sequence: play files sequentially from selected folder. After playing all the files in the current folder, the playing stops automatically.

Repeat one: repeat continuously the selected file.

Repeat Folder: repeat playing files from the selected folder.

Random: randomly play files in selected folder.

(3)Display Mode

Select “Display Mode” option from menu list, then press Menu button to enter into the menu list of display mode. The reference interface is shown as below:



Spectrum: The display screen shows the spectrum of the playing music.

Lyric: The display screen shows lyrics if there lyric file that matches with music files are in the device.

Lyrics synchronized display

The device supports files with "*.lrc" as file extension to realize lyrics synchronized display



Note

- 1.The lyric file name should be in accordance with music file name.
- 2.The display screen will shows the lyric if the proper lyric file is available.

(4)AB Replay

From the menu list, select "AB Replay", press MENU button to enter.

Set AB Replay

- Set the start mark: When playing, shortly press MENU button to enter Playing Menu, then shortly press "+" or "-" to select "AB Replay" mode, then press MENU button to confirm and return to the state of music playing. The "A" from "A-B" on OLED display turns yellow and the start point is set. If you need to reset the start point A, shortly

press "▶▶▶" to make confirmation.

- Set the finish mark: After setting mark A, shortly press "▶▶▶" to set the finish mark and the "B" in "A-B" on OLED display turns yellow as well. When the "A-B" is displayed in yellow on the OLED, the section between mark A and B will be replayed for specified times. After playing specified times, the system resumes normal playing. If AB Replay is not needed, use any of the following methods to cancel the AB Replay mode.

Cancellation: Shortly press "PLAY" button to cancel the AB marks and pause playing.

Shortly press "STOP" button to cancel the AB marks and stop playing.

Shortly press "MENU" button to cancel the AB marks and return to normal playing.

(5)Replay times

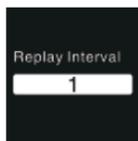
Select "Replay times" option in play menu list, then press Menu button to enter into setting menu of Replay times.

Adjust the times by "◀◀" or "▶▶". The reference interface is shown as below:



(6)Replay interval

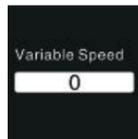
Replay interval means the time interval between two Replays. You can select "Replay interval" option in the play menu list, then press Menu button to enter into setting of Replay interval. Adjust the time of Replay interval (time unit: second) by "◀◀" or "▶▶" button. The reference interface is shown as below:



(7)Variable Speed

Select "Variable Speed" option in play menu list, then press

Menu button to enter into the setting menu of Variable Speed. Adjust the play speed by "◀◀" or "▶▶" button. The reference interface is shown as below:



(8)Scan speed

Select "Scan Speed" option in play menu list, then press Menu button to enter into the setting menu of Scan speed. Adjust the Scan speed by "◀◀" or "▶▶" button. Scan speed means the speed for fast forward or fast backward. The reference interface is shown as below:



(9)Details

Get detailed information of the playing file from this menu, such as bit rate, sampling rate and total time and so on. The reference interface is shown as below:



Delete Files

On the stopped playing interface, press the DELETE button for about 2 seconds, the interface of the following picture will appear. Below are the pictures of the deletion operations:



If the device shows the interface on the left side, press "+" or "-" button to select individual or all files; if the device shows the interface on the right side, press "⏪" and "⏩" to choose "YES" to confirm deletion, "NO" to keep file; press MENU button to execute.

9 Video Mode

On the main interface, we can select video mode by “⏮” or “⏭” button, and then press the Menu button to enter into the interface of file list. The interface of file list is shown as below:



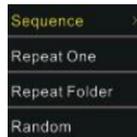
Shortly press Play button to enter into the interface of video play. The reference interface of video play is shown as below:



You can select your desired video by “+” or “-” button and press Play button to play it. When playing video, short press Menu button and the following menu list will pop up: play mode, scanning speed and details. The reference interface is shown .

(1) Play mode

When an option is selected, the corresponding area will turn yellow. As the above picture shows, when you select “Play Mode” option and then press Menu button, it will enter into selection menu of play mode. You can select play mode you want. The reference interface is shown as below:



Sequence: Play the selected files of the list in order. It will stop automatically after playing the current file list for one time.

Repeat One: Play the selected file repeatedly.

Repeat Folder: Play the selected files from the selected folder repeatedly.

Random: Play the selected files in the folder randomly.

(2) Scan speed

Select “Scan Speed” option in play menu list, then press Menu button to enter into the setting menu of scanning speed. You

can select the scanning speed by “+” or “-” button and press Menu button for confirmation. The reference interface is shown as below:



(3) Details

The detailed information of the playing file can be found from the menu list, such as bit rate, sampling rate and total time and so on. The reference interface is shown as below:



Delete Files

In the interface of file list, press the Delete button for about

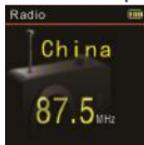
2 seconds, and it will display the following interface. The related reference picture showing deleting steps are as below:



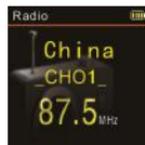
If the device shows the interface on the left side, select “+” or “-” button to choose to delete single file or all files. If the device shows the interface on the left side, select “YES” to confirm deleting or “NO” to retain file by “◀◀” or “▶▶” button. Press Menu button to execute the option.

10 Radio Mode

From the main menu select Radio Mode, press MENU button to enter. See the below picture of Radio Mode:

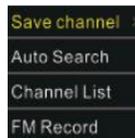


frequency mode



user mode

In radio mode, there are “user mode” and “frequency mode” to switch, if some radio channels have been already saved. Short press PLAY button to switch between the two modes; if no radio channels have been saved, there is only “frequency mode” available. In the frequency mode, press “◀◀” or “▶▶” button to choose radio frequency, press MENU button to display: Save Channel, Auto Search, Channel List and FM Record. In the user mode, press “◀◀” or “▶▶” button to choose saved channel, press MENU button to display: Delete Channel, Auto Search, Channel List and FM Record. The reference interface is shown as below:



After Auto Search is selected, the system automatically searches radio channels. When a radio channel is found, the channel will be saved automatically and the radio channel number is saved in the channel list. In the frequency mode, users can save channels in a manual way. In user mode, users can choose Delete Channel to delete a current saved channel or Delete all saved channels. The device can store 40 radio channels at most. Saved radio channels can be seen from the channel list. Press “+” or “-” to switch among saved radio channels in sequence and press MENU button to start listening to the radio channel. If users choose FM Record, the system starts recording the radio. See the interface picture below:



11 Setting Mode

From the main menu select Setting mode, press MENU button to enter. The Setting mode interface includes: Select Memory, Select Folder, Record Type, Digital Noise Reduction, Voice Activate Control, Listen In, Auto Divide Feature Recording, Backlight, Auto off, System Time, Recorder Timer, Language and Advanced. See the interface picture below:



(1) Select Memory

After the Micro TF is inserted into the device, device will display the other option: Card Memory. Users can select the storage location for recorded files. See the interface picture below:



Note

- PCM recordings are only stored in internal memory of the device.

(2) Select Folder

The recorded file can be stored in any of the A, B, C, D folder. See the interface picture below:



(3)Record Type

From the Record Type Menu users have five Record types for selection: HPCM Record, PCM Record, SHQ Record, HQ Record, SP Record and SLP Record. If the PCM record type is selected, the device saves the recorded file automatically when PCM recording reaches one hour, and then starts the next recording. See the interface picture below:



HPCM REC: WAV format, high sound quality, bit rate: 3072kbps.

PCM REC: WAV format, high sound quality, bit rate: 1536kbps.

SHQ REC: MP3 format, high sound quality, bit rate: 192kbps.

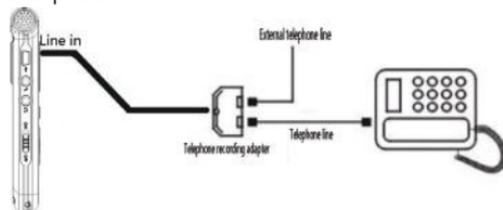
HQ REC: MP3 format, high sound quality, bit rate: 128kbps.

SP REC: MP3 format, good sound quality, bit rate: 64kbps.

SLP REC: MP3 format, ordinary sound quality, bit rate: 8kbps.

Telephone Record

Connect the telephone cable provided with the device and external telephone cable to the telephone adapter. According to the drawing, the operation is the same as recording with microphone.



Line in Record:

Line in recording is a way of recording sound by connecting the device to an audio equipment's audio output via a stereo

audio cable (audio equipments such as radio, CD, VCD, DVD etc.). Use the stereo audio cable provided with the device to connect the audio equipment's audio output with "Line in" jack of the device. The recording operation is the same as recording with microphone. Before recording with Line in jack, please adjust the volume of the sound source to a suitable level, otherwise the recorded sound may lack fidelity.

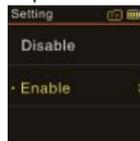
(4) Voice-activated Recording

This is a practical function of recording, no button operation is needed. When the function is enabled, in the course of recording, if no voice is detected, the device will automatically pause recording after 3 seconds; if voice is detected again, the device resumes recording. See the below related reference picture:



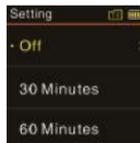
(5) The Listen In function

After activating the Listen In function, you can connect an earphone to listen if there's any sound input. See the Listen in function setting interface picture as follows:



(6) Automatic file splitting

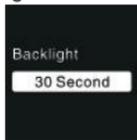
When recording, the device will automatically save the recording file every 30 or 60 minutes, and then continue the recording. See the below related reference picture:



(7) Backlight Time

The backlight time function can be set at: 15, 30, 45, 60

seconds and Constant. If there's no operation on the device for the set time, the backlight turns off automatically. If you select 0, the backlight is to be always. See the below picture of Backlight Time setting:



(8)Auto off

If there's no operation on the device for a set time, the system automatically shuts down. If the time is set at 0, the system will not automatically shut down. See the below auto off picture:



(9)System time setting

See the below picture of System time setting:



On this interface, users can set the current time and the time display format.

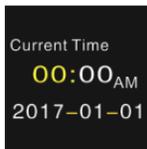
For example, when select "Time Mode", the device shows the picture as follow:



From the list, users can choose one of two time display format: 12-hour clock or 24-hour clock. The default setting is 12-hour clock.

When select "Real Time", the device shows the picture as follow:

On this interface, press "+" or "-" button to set the real time. Press "◀◀" or "▶▶" button to select "Year", "Month", "Day", "Hour", "Minute"; press "+" or "-" to adjust the value.



(10) Record timer

Record timer: preset the time at first, when system time reaches the set time, the device starts voice recording automatically.

From the menu list, select "Record Timer" to enter to set the record timer. See the below auto off picture:



The interface of Record Time is as follow:



On this interface, users can set the time when the device starts recording automatically. The method to perform the setting refers to "System Time Setting".

Record source: users can select either voice source from the microphone or radio by pressing "+" or "-". The default setting takes the voice picks up by microphone as recording source.

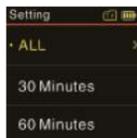
See the below auto off picture:



If the "FM Source" is selected, the radio will be the sour for voice recording. Press Menu button to set the frequency point.

Duration:

Users can set the duration of recording to 30 minutes, 60 minutes, and 120 minutes or unlimited. See the below auto off picture:



Note

After the duration was set, please make sure the switch is in the position of ON when the device is power off, otherwise the device will not start recording when it reaches the preset time.

(11)Language

From the Language menu you can choose a language as system language. See the following interface picture:



(12)Advanced

The Advanced menu list includes: Information, Clear Internal Memory, Clear Card Memory and Reset Default Setting. See the following interface picture:



Information: users can check the device's firmware version and check the remaining capacity of memory by using this function.

Clear internal memory: users can format the device's internal memory by using this function.

Clear card memory: users can format the device's card memory by using this function.

Reset default setting: users can reset the system to default setting.

12 Frequently Asked Questions

Answers to the frequently asked questions are listed here to solve simple problems that may to the device. If the problem cannot be solved, please contact the dealer or visit our official website: www.philips.com/support

Cannot switch on the device :

The battery is empty, please recharge promptly.

Cannot record with the device:

The maximum file number is exceeded or the device's memory is full. Please delete some recordings or move them to other storage devices.

The device cannot play recorded audio:

- (1)The device may be in lock mode (HOLD). Slide the HOLD switch to OFF position.
- (2)The battery is empty, please recharge.

13 Technical Parameters

Storage

Internal storage

Estimated recording time (16GB): 11 hours with HPCM Recording mode, 22 hours with PCM Recording mode, 180 hours with SHQ Recording mode, 260 hours with HQ Recording mode, 540 hours with SP Recording mode, approximately 4240 hours with SLP Recording mode.

Type of internal storage: NAND Flash

Portable storage (PC): Yes

Dimensions and Weight

Wide × Long × High: 38×104×14(mm)

Weight (with battery): 80g

System requirement

Operating System: Windows 7/Vista/XP/2000, Mac OS X, Linux

Port: USB

Recording

HPCM REC: bit rate3072kbps, WAV format

PCM REC: bit rate1536kbps, WAV format

SHQ REC: bit rate192kbps, MP3 format

HQ REC: bit rate128kbps, MP3 format

SP REC: bit rate64kbps, MP3 format

SLP REC: bit rate8kbps, MP3 format

Operating conditions

Temperature: 5°–45°C

Humidity: 10% – 90%, no condensation

Warranty card

质保书

1 year warranty

一年质保

Type: VTR8010

Serial nr:

Date of purchase

购买日期

Dealer's name, address and signature

销售商名称、地址及签字

www.philips.com/welcome

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