Panasonic

使用说明书 (另附保修证) (家用) 脉冲光脱毛仪 型号 ES-WH93

中文	 	 3
Fnalish	 	 23



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目录

安全注意事项 4	保持皮肤健康16
使用须知9	指示灯的指示17
部件名称10	清洁方法18
处理部位11	常见问题18
处理频率和时间指南 12	故障排除20
充电方法12	电池寿命21
使用前14	内置式充电电池的取出方法 21
第一次使用本产品时 14	规格22
使用方法15	

感谢您购买这款 Panasonic 产品。

在使用本产品前,请仔细阅读本说明书并妥善保管,以备将来参考。

安全注意事项

■ 为减少受伤、死亡、触电、火灾以及财产损坏 毋 的危险,请务必遵守以下安全注意事项。

[〉] 标志说明

以下标志用于对因无视标志说明和使用不当而 导致的危险、伤害和财产损失的程度进行分类 和描述。

⚠ 危险

表示将会导致重伤或死亡的潜 在危险。

⚠ 警告

表示可能会导致重伤或死亡的潜在危险。

<u></u> 注意 表示可能会导致轻伤或财产损失的危险。

以下标志用于对需要遵循的说明的种类进行分 类和描述。

- 此标志用于提醒用户注意禁止采取的操作 步骤。
- 此标志用于提醒用户注意为了安全操作本 产品而必须遵循的操作步骤。

企警告

- ▶为防止皮肤或健康问题
- 使用心脏起搏器等体内植入式医疗器械的 用户请勿将机身靠近此类医疗器械。 -否则可能导致事故和疾病。
- 请勿在孕期或经期使用。
- 3-否则可能因荷尔蒙失衡而导致皮肤不适问题。
- **请勿在纹身上使用。**
- -否则可能因烧伤而导致瘢痕疙瘩,或导致皮肤发红或其他皮疹。
- **请勿直接照射眼睛。**
 - **>**-否则可能导致眼部损伤。
- 只能在腋下、手臂、腿部、比基尼线或面部 (使用面部脱毛配件时)使用。
 - -否则可能导致皮肤烧伤、发红或其他皮疹。
- ▶电源
- 请勿用湿手在家用电源插座上插拔适配器。 -否则可能导致触电或受伤。

企警告

请勿损坏或改装、或用力弯曲、拉拔或扭曲电源线。另外,请勿在电源线上面放置

● 重物或挤压电源线。 如果电源适配器损坏,或者电源插头未牢 固插入家用电源插座,切勿使用本机。

-否则可能造成触电或因短路引发火灾。

请勿使用除附带的电源适配器外的其他电 源适配器。此外,请勿使用附带的电源适 配器对其他产品充电。(见第 10 页。) -否则可能因短路而导致灼伤或火灾。

使用时请勿超过家用电源插座或接线的额 定值。

○ -如果在一个家用电源插座上连接过多插头 而使其超过额定值,可能会因过热而引发 火灾。

请务必确保电源适配器的工作电压符合其 额定电压。

充分插入适配器或电源线插头。

-否则可能引发火灾或触电。

进行清洁时,请务必从家用电源插座上拔 р 掉适配器的插头。

-否则可能导致触电或受伤。

定期清洁电源插头和电源线插头,防止灰 尘积聚。

-否则可能因潮湿造成绝缘故障,从而引发火灾。断开适配器,然后用干布擦拭。

▶本产品

本产品含有内置充电电池。请勿将其投入 火中或加热。请勿在高温条件下充电、使 用或放置。

-否则会导致过热、起火或爆炸。

请勿存放在儿童的接触范围之内。请勿让 儿童使用。

·-否则可能会因为其意外吞入部件而引发事故和伤害。

_ 请勿自行改装或维修。

一否则可能导致火灾、触电或受伤。 联系授权的维修中心进行维修(更换电池等)。

ン-否则可能导致火灾、触电或受伤。

○ 如果进气口被堵塞,请勿使用。
-否则可能导致着火或烧伤。

企警告

→ 本机和电源适配器 ※ 请勿将本机和电源适

请勿将本机和电源适配器存放在浴室或高)湿度场所。此外,请勿放在可能溅水的位 置(例如洗手台)。

-否则可能发生触电或引发火灾。

请勿将本机和电源适配器浸入水中或用水 清洗。

请勿在浴室或高湿度场所使用本机或电源 适配器。

-否则可能造成触电或因短路引发火灾。

请保持产品干燥。

▶如果发生异常或故障

如果发生异常或故障, 应立即停止使用并断开适配器。

- -在这种情况下使用本产品可能会导致火灾、触电或受伤。
- ▲ <异常或故障情况>
 - •本体、适配器或电源线变形或异常变热。
 - •本体、适配器或电源线发出烧焦的气味。
 - •本体、适配器或电源线的使用或充电过程 中发出异常声音。
 - -立即请求授权的维修中心进行检查或维修。

▶另请注意以下事项

本产品不宜供肢体、感官或精神上有残疾者、或缺乏经验和知识者(包括儿童)使用, 必须有监护者从旁监督并对本产品的使用

- 即 加以指导,且对使用者的安全能承担责任。 请避免儿童将本产品视为玩具,从而引发 危险。
 - -否则可能导致事故或受伤。
- 电源线不能更换,如果电源线损坏,此电源适配器应废弃。
 - -否则可能导致事故或受伤。

请妥善处理本产品的包装袋,使其远离婴 幼儿。

-否则可能导致婴幼儿窒息等意外发生。

企注意

▶为保护皮肤

以下人员不宜使用本产品:

- ·皮肤有知觉障碍的人
- ·患有异位性皮炎或皮疹以及其他皮肤病的人
- ·有过敏体质的人,或易受化妆品、衣物、 金属等刺激的皮肤敏感者
- ·皮肤对阳光敏感的人

请勿在以下身体部位使用:

- ·在太阳晒黑的皮肤上
- ·深棕色或黑色皮肤区域,例如痣参见本机后部的"适用的肤色"标签。
- - ·血管瘤
 - ·做过整容手术的部位

请勿在以下情形中使用:

- ·不舒服或感觉皮肤或身体异常时
- 请勿在同一部位反复使用。(即使没有取得 立竿见影的脱毛效果,最多也只能每3天 使用一次。)
- -否则可能导致皮肤受伤、发炎、出血、疼痛加剧、其他问题或症状恶化。

- **冷清洁时外,请勿拆下配件。**
 - **У**-否则可能对皮肤或手指造成伤害。
 - 仅供 18 岁以上的人使用。
- 否则可能导致皮肤受伤、发炎、出血或疼痛加剧。
- 使用前,请确认保护架和照射窗口没有变形、破裂或损坏。
 - -否则可能导致皮肤受伤。

正在服用药物的人应咨询皮肤科医生。

根据所服药物的种类,皮肤可能变得对光 刺激敏感,可能导致皮肤问题。

如果出现发炎(例如皮肤变红),应停止使用本产品;如果 2 天后仍继续发炎,请咨询皮肤科医生。

- -否则可能会使症状恶化。
- **请在除去饰品等金属物之后使用。** -否则可能导致事故或受伤。

▶电源

请勿让金属物质或杂物粘附在电源插头或 电源线插头上。

-否则可能造成触电或因短路引发火灾。

①注意

世外

存放时,请勿将电源线缠绕在适配器上。

)-否则可能导致电源线断线,发生烫伤、触 电,或由于短路导致火灾。

-握住电源线断开连接可能导致触电或受伤。

不充电时,请从家用电源插座上断开适配器。 -否则可能因绝缘性能下降而导致漏电,从 而引发触电或火灾。

▶本产品

() 请勿在潮湿的皮肤上使用。

-否则可能导致触电。

○ 请勿跌落或受到冲击。

✔-否则可能导致受伤。

刚使用 IPL 脱毛后,请勿立即拆下配件或 接触照射窗口。

-否则可能导致烧伤,因为照射窗口会变热。

▶注意以下注意事项

○ 请勿在衣服或头发上使用。

-否则可能导致烧伤或变色。

废弃本产品时拆下电池的处理

危险

此充电电池专用于此产品。请勿将其用于 其它产品。

请勿对已从此产品上拆下的电池充电。

- •请勿对其加热或将其投入火中。
- •请勿敲击、拆解、改装或用指甲刮擦。
- ╲ •请勿用金属物体连接电池的正负极端子。
 - /•请勿将电池随项链和发夹等金属饰品一同携带或存放。
 - •请勿在高温环境(如直射阳光下或其他热源 附近)下使用或放置电池。
 - •请勿撕掉电池外皮。
 - -否则会导致过热、起火或爆炸。

企警告

取出充电电池后,请勿将其放在儿童和婴儿可触及的范围内。

一不慎吞服电池会给造成人身伤害。 如发生此种情况,应立即就医。

如电解液泄漏,请勿用手直接触电池。

-电解液不慎入眼可能会导致失明。 请勿揉眼。应立即用清水冲洗眼睛,并送 医就诊。



-如电解液不慎接触到皮肤或衣物。可能会 导致炎症或受伤。 应立即用清水彻底冲洗,并送医就诊。

使用须知

- •进行 IPL 脱毛之前,请遵守以下事项。
 - ·本产品只能在没有化妆的皮肤上使用。 使用洗剂或剃毛剂(啫喱等)时,请用水彻底 🗗 洗掉洗剂并让皮肤晾干。
 - ·必须对先对照射部位(身体或面部)进行剃毛 处理。

使用前, 请先擦掉处理部位的水或汗, 以及粘 在皮肤上的毛发。

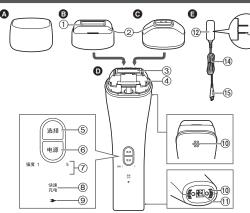
粘在皮肤上的毛发或剃毛剂会弄脏保护架。可 能导致保护架难以清洁。

•请勿使用酒精、洗甲水或清洁剂(例如洗手液) 等清洁本产品。

否则可能导致本机故障、破裂或褪色。请用干 燥的布擦拭。

- •请勿将本产品放在高温处。 否则可能导致故障。
- •以下符号表示需要用特定的可拆卸式供电装置 将电器连接到供电电源。供电装置的类型参考 标示在符号附近。

 \mathcal{H}



- △盖子
- 母身体脱毛配件
- ❷ 面部脱毛配件
 - ①保护架
 - ② 照射开关
- ●本机
 - ③ 照射窗口
 - 4)照射灯
 - ⑤ 强度选择开关 (闪光输出)

- ⑥ 电源开关
- ⑦强度指示灯(蓝色) (闪光输出)(参见 第 15 和 17 页。)
- ⑧ 快速充电指示灯 (红色) (参见第 13 和 17页。)

- ⑨ 充电指示 / 通知灯 **日 电源适配器** (红色)
 - (参见第 12 和 17页。)
- ⑩ 进气口
- ⑪充电插口

- (RE7-87)
 - ⑫ 适配器
 - 13 电源插头
 - 14 电源线
 - 15 电源线插头

拆卸和安装身体 / 面部脱毛配件

▶拆卸配件

捏住配件的侧面,从本机上取下。



▶安装配件

推入配件, 直至其发出咔嗒声 就位。



处理部位

面部



请勿在 区域使用,例如 眼睛、眉毛和嘴唇周围。

- •扎起头发或用发绳之类的物品将头发固定。此外,请用 发夹之类的物品固定短发。
- •在面部使用前后,应特别注意避免晒伤。
- •请勿用于男士胡须。

腋下



手臂



比基尼线 *1,2



腿部



- *1 处理比基尼线时,请先穿上泳衣、内衣等, 对处理部位进行确认。
- *2请勿在下腹部或阴部使用。

处理频率和时间指南

世 频率

₩部/手臂

前2个月每2周使用一次。 从第3个月开始,每4周使用一次。 **腋下/比基尼线/面部** 前2个月每周使用一次。 从第3个月开始,每2周使用一次。

处理时间指南

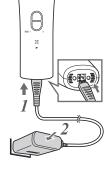
腿部	两腿每次使用共约 10 分钟 (约 190 次闪光)
手臂	两臂每次使用共约 5 分钟 (约 90 次闪光)
腋下	两侧腋下每次使用共约 2 分钟 (约 30 次闪光)
比基尼线	每次使用约 2 分钟(约 30 次闪光)
面部	每次使用约3分钟(约40次闪光)

•请注意,进行面部皮肤护理(而非脱毛目的)时,建议每3天使用一次。

- •即使抑毛效果看上去不明显,也不要在同一部位反复使用。最多每3天使用一次。(处理效果可能因部位或个人体型而异。)
- •如果已经经过一段时间未使用本产品,继续使用时,应按照前2个月的频率使用。
- •处理时间可能因毛发面积或数量、处理部位以 及本产品的使用方式而异。
- •请先剃掉处理部位的多余毛发。请使用另外的剃刀或电动剃刀。
- •本产品与永久性脱毛处理不同。如果停止处理, 多余的毛发会逐渐重新生长。

充电方法

- // 将电源线插头牢固地插入本机底部的充电插口。
- 2 将适配器牢固插入家用 电源插座。



3 确认充电指示 / 通知灯亮起。

•如果电池剩余电量不足,本产品将从快速充电模式启动。(约 10 分钟后快速充电完成。)根据电池的剩余电量,本产品可能会从正常充电模式启动,而不会从快速充电模式启动。快速充电时间可能因充电量而异。

快速充电时 正常充电时 充电完成后 快速 充电 快速 充电 b ★ a ● ● a ● ● (A) (T) (T) = 12

- @ 红灯亮起。
- ⑥ 红灯熄灭。
- •充电将在约3小时内完成。
- •充电时间可能因充电量而异。
- < 如何确认电量完全充满状态 > 在连接电源适配器的状态下,按电源开关。 充电指示 / 通知灯亮起, 并在约 5 秒后熄灭。

◢ 从家用电源插座上拔下适配器,然后 从本机拔下电源线插头。

(为了保证安全并节省能源)

•即使充电 3 小时或以上,本机也不会发生问题。

注意

- •根据电池特性,电池首次使用或放置 6 个月或 更久之后首次使用时,可能无法发挥出完全的 放电能力。充电开始后,本机上的指示灯可能 会有几分钟不亮,但若继续充电,指示灯就会 亮起。
- •充满一次电可使用本产品闪光 600 次左右。(通过快速充电,可使用本产品闪光 40 次左右。)
- •闪光次数可能因环境温度和本产品的使用方式而异。
- •建议在 15 35 摄氏度的环境温度下充电。在温度过低或过高的条件下,电池可能无法正常充电或无法充电。超出推荐温度范围时,可能无法充电。
- •如果充电时对电视机或其它设备造成干扰,则 请采用其它家用电源插座对本产品充电。
- •每次使用时对本产品充电不影响充电电池的寿命。

使用前

•请勿在暗处使用本产品。

毋 使用面部脱毛配件对面部进行照射时,请闭上 ★ 眼睛。

否则可能会对眼睛造成短暂的刺激。

- •本产品只能在没有化妆的皮肤上使用。 使用洗剂或剃毛剂(啫喱等)时,请用水彻底 洗掉洗剂并让皮肤晾干。
- •必须对先对照射部位(身体或面部)进行剃毛处理。

使用前,请先擦掉处理部位的水或汗,以及粘 在皮肤上的毛发。

粘在皮肤上的毛发或剃毛剂会弄脏保护架。可 能导致保护架难以清洁。

第一次使用本产品时

检查输出强度是否适合您的皮肤。 根据产品使用者的体型和身体状况,经过处理

根据产品使用者的体型和身体状况,经过处理 的皮肤可能会变红或感到疼痛。

将输出强度设为 1 档 (强度 1),对处理部位照射一次。

2 天后

▼若无皮肤异常

将输出强度设为 1 档 (强度 1), 开始对所需的部位进行处理。

•处理频率和时间指南(见第12页。)

2周后*

*用于腋下/比基尼线/ ▼若无皮肤异常面部时:1周后

若要提高脱毛处理的输出强度,请对处理部位进 行一次照射,在约 2 天内检查皮肤状况,然后再 进行进一步的脱毛处理。逐步提高输出强度。 •如果在2天或更多天 后有强烈疼痛或发红, 请停止使用本产品并 咨询皮肤科医生。

<输出强度> 处理效果增强

强度5 ○ ○ ○ ○

强度4 ○ ○ ○ ○

强度3 ○ ○ ○ 强度2 ○ ○

疼痛和刺激最低

|使用方法

- •将电源适配器连接至本机时,即使按开关也不 会打开电源。
- •使用本产品的推荐环境温度不低于5摄氏度。 当室温低于推荐使用温度时,此本产品可能会 停止。

取下盖子。



- 2 安装适合使用部位的配件。
- 3 按住(约3秒)
 □
 動打开电源。
 - •如果 1 分钟左右不使用本产品,将自动关 闭电源。

按攤选择輸出强度。

- •电源打开时会选定 1 档。
- •每次按强度选择开关,强度将按1→2→ $3 \rightarrow 4 \rightarrow 5 \rightarrow 1$ ···的顺序循环切换。
- •强度指示灯闪烁,然后亮起。(发出一次蜂 鸣声,表示照射准备完成。)
- 强度指示灯亮起时,使 照射开关紧贴皮肤并保 持按压,直至闪光。



本产品发出蜂鸣声时,将顶 端垂直贴在皮肤上。

- •请勿讨度用力按压。
- •确认附近没有其他人之后 再使用本产品。
- •对处理部位照射时, 本机背 面的进气口可能漏光, 但这 不会造成问题。
- •IPL 脱毛要点 (见第 16 页。)
- •闪光后再次发出蜂鸣声时. 表示已做好下次照射准备。

按學美闭电源。

正确使用 IPL 脱毛的要点

要点 1

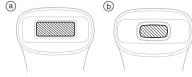
´ 将照射开关垂直紧贴在皮肤上。 除非将照射窗口垂直贴在皮肤上, 否则它不会闪光。

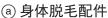




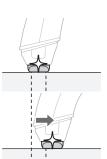
要点 2

区域的大小是每次闪光照射的范围。





- (b) 面部脱毛配件
- •本产品发出蜂鸣声时,照射准备完成。



连续照射

一次照射后,使本产品依然保持按压皮肤的状态,将其移动到下一个照射部位。最多可连续 照射 10 次,间隔约 3 秒。







- •10 次照射后,照射窗口将不再闪光。请从皮肤上移开本产品后再次使用。
- •请勿在同一部位持续使用本产品。
- •根据使用条件,照射间隔可能会发生变化。

保持皮肤健康

进行照射后, 建议进行以下护理。

1. 用经过冰水浸泡的毛巾冷 敷皮肤。



2. 用化妆水等滋润皮肤。



指示灯的指示

▶正常指示

強度 1 (, , , , ,) () () () () () () (强度指示灯(蓝色)闪烁(1次/秒)。 左图是选择 5 档时的图示。
充电	→正在进行照射准备。
强度 1	强度指示灯(蓝色)亮起。 左图是选择 5 档时的图示。
快速 充电 -	→可以进行照射。

▶请充电

强度 1 5	充电指示 / 通知灯(红色) 闪烁(1次/秒)。
快速充电	→电池电量不足。 建议充电。

▶故障显示

[充电异常]

|充电指示 / 通知灯(红色)快速闪 |烁(2 次 / 秒)。



→建议在 15 - 35 摄氏度的环境温度下充电。在温度过低或过高的条件下,电池可能无法正常充电或无法充电。检查产品使用场所的室温,然后重新充电。

[其他故障]

强度指示灯(蓝色)、快速充电指示灯(红色)和充电指示/通知灯(红色)同时闪烁(1次/秒),本产品发出两次蜂鸣声,5秒后电源关闭。



→使用本产品的推荐环境温度不低 于 5 摄氏度。当室温低于推荐使 用温度时,此本产品可能会停止。 检查产品使用场所的室温,然后 重新打开电源。

(刚更换位置后,本产品可能不适应室温。)

如果问题再次发生,请立即咨询 购买的销售店或联系松下电器授 权的维修中心进行维修。

清洁方法

■ 清洁之前,请务必关闭本机电源并等待 2 至 3 毋 分钟。

▶照射窗口 / 保护架

1. 拆下配件。



2. 用干燥的布小心地擦掉污垢。

照射窗口

保护架





3. 安装配件。 插入配件,直至其发出咔嗒声。



▶进气口

用干燥的布擦掉污垢。





常见问题

问题

照射发出的是哪种 光?

为什么本产品仅供 18岁以上的人使用?

本产品可用于哪些 部位?

本产品可以每天使 用吗?

照射后为什么会有 烧焦的气味?

解答

▶ 是疝气灯发出的瞬闪光。

这是因为成长时期的荷 ▶ 尔蒙平衡不稳定,皮肤 易变得敏感。

本产品只能在腋下、手臂、腿部、比基尼线和 面部(使用面部脱毛配 件时)使用。

(请勿在面部等部位使用 身体脱毛配件。)

不建议每天在同一部位 使用本产品。

请遵循处理频率和时间 指南。(见第 12 页。) 这是因为照射时会对体毛 加热,这不代表有故障。 如果体毛长出皮肤表面,

请先进行剃毛处理。 此外,请彻底清除皮肤上 残留的剪掉的毛发。

\	
	旦商
	正火

使用本产品时感觉 闪光很亮,是否有 ▶ 问题?

照射灯可以更换吗?

使用本产品时感觉 闪光很烫,是否有 问题?

使用本产品时经过 处理的皮肤变红. 是否有问题?

使用后疼痛和发红不 消退,是否有问题?

解答

请将照射开关紧贴皮肤。 (见第 16 页。)

如果仍然介意,可戴上 太阳镜或其他护目用品。 照射灯不能更换。 如果照射灯受到损坏等,

▶ 请咨询购买产品的销售 店或联系 Panasonic 授 权的维修中心进行维修。 感觉因人而异, 但若没

- ▶ 有正确剃掉毛发,可能 会感觉较烫。
- ▶ 根据使用者的体质和身 体状况,照射后的皮肤 可能会变红或感到疼痛。
- 请立即停止使用,并对 皮肤进行冷却、保湿。 如果2天内症状消退, 可以以不会导致症状出 现的强度使用本产品。 如果2天后症状持续, 请咨询皮肤科医生。

(见第 14 页。)

问题

充电期间, 快速充 电不启动? (快速充电指示灯 不亮)

我在完成快速充电 后使用本产品,但 充电指示 / 通知灯 立即闪烁?

电池剩余电量不足 时(充电指示/通 知灯闪烁),照射 强度会下降吗?

男士可以使用本产 品吗?

解答

根据电池的剩余电量, 可能会启动正常充电而 不启动快速充电模式。 (仅充电指示/通知灯亮) (见第 13 页。)

如果在刚完成快速充电后 立即使用本产品, 充电指 示 / 通知灯会闪烁。(可 进行约 40 次闪光) (见第 13 页。)

> 不论电池剩余电量的多 少,照射强度都是相同的。

男士可在胡须以外的部 位使用本产品, 但由于 ▶ 男士的体毛通常比女士 更多更厚,对皮肤的刺 激可能会更强烈。

问题

无法除去保护架上 的污垢。

解答

如果经过清洁后仍无法 除去保护架的污垢,请 咨询购买的销售店或联 系 Panasonic 授权的维 修中心进行维修。 [维修部件 身体脱毛配件: WESWH93S3107]

故障排除

故障		纠正措施
照射窗口不闪光。	>	确认强度指示灯(蓝色) 已从闪烁状态变为亮起 状态。
	>	将照射开关垂直按压到 皮肤上,直至其闪光。 (见第 16 页。)
	>	如果已经连续闪光 10 次,请从皮肤上暂时移 开本产品。
	>	次,请从皮肤上暂时移

故障

照射准备时间长。

所有指示灯闪烁且 声后, 电源关闭。

纠正措施

为防止本机过热, 照射 准备时间可能会变长。

使用本产品的推荐环境 产品发出两次蜂鸣 ▶ 温度为不低于 5 摄氏度。 (见第 17 页。)

> 出于安全的原因,如果 打开电源后 1 分钟左右 不使用本产品, 电源将 自动关闭。

重新打开电源。

本产品充电后只能 使用几次。

使用过程中电源关闭。▶

电池已到达使用寿命终点。 (参见本页)

即使按电源开关后 本产品仍不运行。

打开电源时,应按住电 源开关(约3秒)。

请充电。

(见第12页。)

如果按照以上方法还不能解决,请咨询购买的 销售店或联系 Panasonic 授权的维修中心进行 维修。

电池寿命

电池寿命为3年。

如果在充满电后运作时间仍大幅缩短,表示电池使用寿命已用尽。

(电池使用寿命可能随着使用和存放条件改变。) 本产品内的电池不能由用户更换。应请授权的 维修中心完成电池的更换操作。

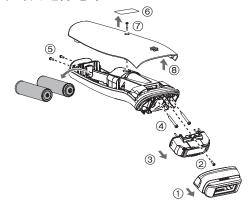
内置式充电电池的取出方法

在报废本产品之前,请先拆除内置的充电电池。 如有官方指定的电池处理场所,请务必在指定 处对旧电池进行统一处理。

仅在废弃产品时才可使用右图所示方法,切勿使用此方法进行维修。如果自行拆解本产品,可能会引起功能故障。

- •鼓励消费者在决定废弃本产品前,事先征求经 销商或 Panasonic 认定维修店的意见,尽量延 长本产品的使用寿命。
- •当消费者决定废弃本产品又不想自行分解本产品取出电池时,鼓励消费者将本产品送往 Panasonic 认定维修店,由维修店对电池进行分解和回收。
- •取出电池时,应切断电源。

- •如果本产品可以打开电源并发光,请使用产品直至电池电量耗尽。
- •拆解本产品之前,请在关闭电源后至少等待 10 分钟。
- •按下图所示的 ① ~ ⑧ 的顺序拆开本产品,卸下电池。
- •注意避免让拆下的电池的正负端子短路,在端子上贴胶带对其进行绝缘。



环境保护与资源回收

本产品内含锂离子电池。

如果您的国家有相关规定,请务必在指定处对旧电池进行统一处理。

规格

田区

产品名称	脉冲光脱毛仪
产品型号	ES-WH93
电源适配器额定输入	100-240 V∼ 50-60 Hz 180 mA
电源适配器额定输出	4.8 V 1.25 A
充电时间	约3小时
原产地	本机:日本 电源适配器:中国
生产日期	请见商品上刻印
执行标准	GB4706.1, GB4706.9, GB4706.15

本产品仅适合家庭使用。

English

Panasonic

Operating Instructions
(Household) IPL Hair Removal System
Model No. ES-WH93

Contents

Safety precautions 24	For healthy skin30
Intended use29	<u>-</u>
Parts identification30	Cleaning3
Treatment areas31	Q&A38
Guide for treatment frequency, time31	Troubleshooting40
Charging32	Battery life40
Before use33	Removing the built-in rechargeable
When using the appliance for the	batteries4
first time34	Specifications42
How to use34	

Thank you for purchasing this Panasonic product.

Before operating this unit, please read these instructions completely and save them for future use.

Safety precautions

To reduce the risk of injury, loss of life, electric shock, fire, and damage to property, always observe the following safety precautions.

Explanation of symbols

The following symbols are used to classify and describe the level of hazard, injury, and property damage caused when the denotation is disregarded and improper use is performed.



⚠ DANGER

Denotes a potential hazard that will result in serious injury or death.



⚠ WARNING

Denotes a potential hazard that could result in serious injury or death.



⚠ CAUTION

Denotes a hazard that could result in minor injury or property damage.

The following symbols are used to classify and describe the type of instructions to be observed.



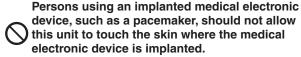
This symbol is used to alert users to a specific operating procedure that must not be performed.



This symbol is used to alert users to a specific operating procedure that must be followed in order to operate the unit safely.

⚠ WARNING

► To prevent skin or health problems



- Doing so may cause an accident or illness.



Do not use during pregnancy or menstruation.

Doing so may cause skin problems due to unstable hormone balance.



Do not use on tattoos.

- Doing so may cause keloids by burns or redness or other rashes on skin.



Do not shine directly into the eyes.

- Doing so may cause injury to the eyes.



Only use on underarms, arms, legs, bikini-line or face (when using the face attachment).

- Failure to do so may cause burns or redness or other rashes on skin

► Power supply



Do not connect or disconnect the adaptor to a household outlet with a wet hand.

- Doing so may cause electric shock or injury.

WARNING

Do not damage or modify, or forcefully bend, pull, or twist the cord. Also, do not place anything heavy on or pinch the cord.

Never use the appliance if the AC adaptor is damaged or if the power plug fits loosely in a household outlet.

 Doing so may cause electric shock or fire due to a short circuit.

Do not use anything other than the supplied AC adaptor for any purpose.

Also, do not use any other product with the supplied AC adaptor. (See page 30.)

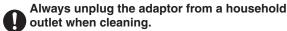
 Doing so may cause burn or fire due to a short circuit.

Do not use in a way exceeding the rating of the household outlet or the wiring.

 Exceeding the rating by connecting too many plugs to one household outlet may cause fire due to overheating.

Always ensure the appliance is operated on an electric power source matched to the rated voltage indicated on the AC adaptor.
Fully insert the adaptor or appliance plug.

- Failure to do so may cause fire or electric shock.



- Failure to do so may cause electric shock or injury.

Regularly clean the power plug and the appliance plug to prevent dust from accumulating.

- Failure to do so may cause fire due to insulation failure caused by humidity.

Disconnect the adaptor and wipe with a dry cloth.

▶This product

This product has a built-in rechargeable battery.

Do not throw into flame or heat. Do not charge,
use, or leave in high temperatures.

Doing so may cause overheating, ignition, or explosion.

Do not store within the reach of children. Do not let them use it.

- Doing so may cause an accident or injury.

Do not modify or repair.

Ontact an authorized service center for repair (battery change etc).

Never disassemble except when disposing of the product.

- Doing so may cause fire, electric shock, or injury.

On not use if the air inlet is blocked.

- Doing so may cause fire or burns.

WARNING

► Main body and AC adaptor

Do not store the main body and AC adaptor in a bathroom or location with high humidity. Also, do not place in a location where water may spill (such as top of a vanity).

- Doing so may cause electric shock or fire.

Do not immerse the main body and AC adaptor in water or wash it with water.

Do not use the main body and AC adaptor in the bathroom or location with high humidity.

 Doing so may cause electric shock or fire due to a short circuit.

Keep the appliance dry.

► In case of an abnormality or malfunction

Immediately stop using and remove the adaptor if there is an abnormality or malfunction.

- Using it in such conditions may cause fire, electric shock, or injury.
- <Abnormality or malfunction cases>
- The main unit, adaptor or cord is deformed or abnormally hot.
- •The main unit, adaptor or cord smells of burning.
- There is abnormal sound during use or charging of the main unit, adaptor or cord.
- Immediately request inspection or repair at an authorized service center.

► Take care of the following precautions as well

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction

been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

- Failure to do so may cause an accident or injury.

The supply cord cannot be replaced. If the cord is damaged, the AC adaptor should be scrapped.

- Failure to do so may cause an accident or injury.

Properly dispose the package of the appliance, keep the package away from infants.

-Failure to do so may cause suffocation of infants from happening.



ACAUTION

► To protect the skin

The following persons should not use this appliance:

- · Persons with dermatitis
- · Persons suffering from atopic dermatitis or rashes and other skin diseases
- Persons with allergic diathesis, or sensitive skin which is easily irritated by cosmetics, clothing, metals, etc.
- Persons with skin that is sensitive to sunlight

Do not use in the following body area:

- · On suntanned skin
- Dark brown or black skin areas such as moles See the sticker of "Suitable skin tones" on the back of the main body.



- Scabs, injuries, rashes, bruises, warts, pimples, skin cancer, ringworm (dermatophytosis), folliculitis, irritated skin, insect bites, etc.
- · Angioma
- Areas with cosmetic surgery

Do not use in the following cases:

· When you are not well or when you feel an abnormality in your skin or body

Do not use on the same area repeatedly. (Try using the appliance up to once every 3 days even if removal of unwanted hair is not immediately obvious.)

 Doing so may cause injury to the skin, inflammation, bleeding, increased pain or other problems or aggravated symptoms.



Do not remove the attachment except during cleaning.

- Doing so may cause injury to the skin or fingers.



Only for use by persons over the age of 18.

- Failure to do so may cause injury or inflammation of the skin, bleeding or increased pain.



Before use, check that there is no distortion, cracks or damage to the light guide and flash window.

- Failure to do so may cause injury to the skin.

•

Persons on medication should consult a dermatologist.

- Skin may become sensitive to light stimulation depending on the type of medication being taken, and may cause skin problems.



If inflammation (such as skin turning red) occurs, stop using the appliance, and consult a dermatologist if the inflammation continues even after 2 days.

- Failure to do so may cause symptoms to worsen.



Use after removing metal objects such as accessories.

- Failure to do so may cause an accident or injury.

► Power supply



Do not allow metal objects or trash to adhere to the power plug or the appliance plug.

 Doing so may cause electric shock or fire due to a short circuit.

ACAUTION

Do not wrap the cord around the adaptor when storing.



- Doing so may cause the wire in the cord to break with the load, and may cause fire due to a short circuit.

Disconnect the adaptor or the appliance plug by holding onto the adaptor or the appliance plug instead of the cord.



- Disconnecting by holding onto the cord may cause electric shock or injury.

Disconnect the adaptor from the household outlet when not charging.



- Failure to do so may cause electric shock or fire due to electrical leakage resulting from insulation deterioration.

► This product



Do not use on wet skin.

- Doing so may cause an electric shock.



Do not drop or subject to shock.

- Doing so may cause injury.



Do not remove the attachment or touch the flash window immediately after using IPL hair removal.

Doing so may cause burns as the flash window becomes hot.

► Note the following precautions



Do not use on clothes or head hair.

-Doing so may cause burns or discoloration.

Handling of the removed battery when disposing

A DANGER

The rechargeable battery is exclusively for use with this appliance. Do not use the battery with other products.

Do not charge the battery after it has been removed from the product.

- Do not throw into fire or apply heat.
- · Do not hit, disassemble, modify, or puncture with a nail.



- Do not let the positive and negative terminals of the battery get in contact with each other through metallic objects.
- Do not carry or store the battery together with metallic jewellery such as necklaces and hairpins.
- •Do not use or leave the battery where it will be exposed to high temperatures, such as under direct sunlight or near other sources of heat.
- Never peel off the tube.
- Doing so may cause overheating, ignition, or explosion.

WARNING

After removing the rechargeable battery, do not keep it within reach of children and infants.

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-The battery will harm the body if accidentally swallowed.

If this happens, consult a physician immediately.

If the battery fluid leaks out, do not touch the battery with your bare hands.

-The battery fluid may cause blindness if it comes in contact with your eyes.



Do not rub your eyes. Wash immediately with clean water and consult a physician.

-The battery fluid may cause inflammation or injury if it comes in contact with the skin or clothes. Wash it off thoroughly with clean water and consult a physician.

Intended use

- Please observe the following before performing IPL hair removal.
 - This appliance should only be used on bare skin with no cosmetics, lotions etc.

When using the lotion or shaving agents (gels, etc.), rinse off the agent thoroughly with water and let the skin dry.

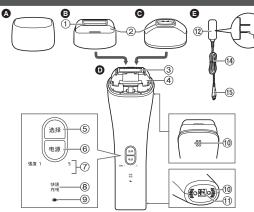
- · Be sure to shave the area (body or face). Before use, wipe away any water or sweat from the treatment area, and any hair sticking to the skin first. Hairs or shaving agents stuck to the skin can foul the light guide. It may become difficult to clean the light quide.
- Do not use alcohol, nail polish remover, or detergent (ex. liquid hand soap), etc. to clean the appliance.
 Doing so may cause failure, cracking or discoloration of the main body. Wipe with a dry cloth.
- Do not leave the appliance in an area with high temperature.

Doing so may cause malfunction.

 The following symbol indicates that a specific detachable power supply unit is required for connecting the electrical appliance to the supply mains. The type reference of power supply unit is marked near the symbol.



Parts identification



- **A** Cap
- Body attachment
- **©** Face attachment
 - 1 Light guide
 - ②Flash switch
- Main body
 - ③Flash window
 - 4 Flash lamp
 - (5) Level selector switch (flashes)
 - 6 Power switch
 - ①Level indication lamp (blue) (flashes) (See pages 34 and 36.)

- ® Quick charging indication lamp (red) (See pages 32 and 37.)
- 10 Air inlet
- 11 Socket
- **⊕** AC adaptor (RE7-87)
 - 12 Adaptor
 - 13 Power plug
 - (14) Cord
 - (15) Appliance plug

Removing and mounting the body/face attachment

▶ Removing the attachment

Holding the attachment by side, remove from the main body.



► Mounting the attachment

Push the attachment until it clicks.



Treatment areas

Face



Do not use on the area, such as around the eye, eyebrow and lip, etc.

- Tie up hair or fix it with a hair band or similar. Also, please also fix short hair with a clip or similar.
- Please take care in particular of sunburn before and after using on your face.
- Do not use for the man's beard.

Guide for treatment frequency, time

*1 For bikini-line treatment, wear a swim wear, under wear etc. first to check the treatment area.

*2 Do not use in the abdomen and genitals.

Frequency

Legs/Arms

Use once every 2 weeks for the first 2 months.

Use once every 4 weeks from the 3rd month onward.

Underarms/Bikini-line/Face

Use once every week for the first 2 months.

Use once every 2 weeks from the 3rd month onward.

Underarms



Arms



Bikini-line *1,2



Legs



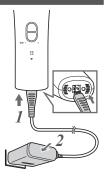
Guide for treatment time

Legs	Approximately 10 minutes per session for both legs (approximately 190 flashes)
Arms	Approximately 5 minutes per session for both arms (approximately 90 flashes)
Underarms	Approximately 2 minutes per session for both underarms (approximately 30 flashes)
Bikini-line	Approximately 2 minutes per session (approximately 30 flashes)
Face	Approximately 3 minutes per session (approximately 40 flashes)

- Note that, for facial skin care, it is recommended to use the appliance once every 3 days.
- Do not use on the same area repeatedly, even if removal of unwanted hair is not immediately obvious. Try using the appliance up to once every 3 days. (Treatment effects may differ depending on the area or individual body types.)
- If the appliance has not been used for a while, resume use at the same frequency as the first 2 months.
- Treatment time may differ depending on the area or amount of hair, treatment area and how the appliance is used.
- Please shave any unwanted hair first from the treatment area. Please use a separate razor or electric shaver.
- The appliance differs from permanent hair removal treatment. Unwanted hair will gradually grow back if treatment is stopped.

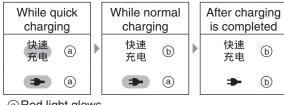
Charging

- Insert the appliance plug firmly into the socket at the bottom of the main body.
- **2** Firmly insert the adaptor into a household outlet.



- 3 Check that the charging indication/notification lamp glows.
 - If the remaining capacity of the battery is low, the appliance will start from quick charging. (Quick charging is completed after approx. 10 minutes.) Depending on the remaining capacity of the battery, the appliance may start from normal charging rather than quick charging.

The quick charging time may differ with the charging capacity.



- a Red light glows.
- b Red light goes off.
- Charging is completed in about 3 hours.
- The charging time may differ with the charging capacity.
- <To check if charging is completed>
 Press the power switch with the AC adaptor connected. The charging indication/notification lamp glows, and goes off after approximately 5 seconds.
- 4

Remove the adaptor from the household outlet, and remove the appliance plug from the main body. (for safety and to reduce energy usage)

•There will be no problems with the main body even if it is charged for 3 hours or more.

Notes

- The charging time may differ when the appliance is being used for the first time, or if it has not been used for half a year or more. The lamp on the main body may not glow for several minutes after charging starts, but will glow if charging continues.
- The appliance can be used for approximately 600 flashes with a full single charge. (The appliance can be used for approximately 40 flashes with quick charging.)

- The number of flashes may differ depending on the ambient temperature and how the appliance is used.
- Recommended ambient temperature for charging is 15 – 35 °C. Charging may not be possible outside of the recommended temperature.
- If there is crackling noise on radios or other devices while charging, charge the appliance using a different household outlet.
- Charging the appliance every time it is used will not affect the life of the rechargeable battery.

Before use

- Do not use the appliance in dark places.
 Please close your eyes when flashing your face with the face attachment.
- Doing so may cause temporary irritation in the eyes.
- •This appliance should only be used on bare skin with no cosmetics, lotions etc.
- When using the lotion or shaving agents (gels, etc.), rinse off the agent thoroughly with water and let the skin dry.
- Be sure to shave the area (body or face).
 Before use, wipe away any water or sweat from the treatment area, and any hair sticking to the skin first.
 Hairs or shaving agents stuck to the skin can foul the light guide. It may become difficult to clean the light guide.

When using the appliance for the first time

Check that the output level suits your skin.

Treated skin may temporarily turn red or feel painful depending on the body type or condition of the person using the appliance.

Set the output level to 1 (强度1) and flash the treatment area once.

After 2 days

If there are no skin abnormalities

Set the output level to 1 (强度1) and start treatment on the area that you want.

• Guide for treatment frequency, time (See page 31.)

If there are no skin abnormalities 1 week

To increase the output level for treatment, flash once on the treatment area, and check your skin condition for around 2 days before further treatment. Increase the output level one step at a time.

• If there is intense pain or redness after 2 or more days, stop using the appliance and consult a dermatologist.

<Output levels> Greater treatment effects 强度5 ○ ○ ○ ○ 强度3 ● ● ● Minimal pain or irritation

How to use

- The power will not turn on even when pressing the switch with the AC adaptor connected to the main body.
- The appliance may not operate in an ambient temperature lower than approximately 5 °C.
- Remove the cap.



- Attach the attachment to suit the area where you want to use it.
- Press and hold (for approximately 3 seconds) to turn the power on.



• The power will turn off automatically if the appliance is not used for approximately 1 minute.

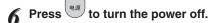
- Press (选择) to select the output level.
 - •Level 1 is selected when the power is turned on.
 - The level cycles through $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 1...$ each time the level selector switch is pressed.
 - •The level indication lamp blinks, and then turns on. (A beep sounds, indicating that preparation for flash is complete.)

When the level indication lamp glows, apply the flash switch closely against the skin and keep it pressed until flashes. When the appliance beeps, press the head perpendicularly against

the skin.



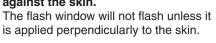
- Please do not press too strongly.
- Use the appliance after checking that there are no other people nearby.
- · Light might leak from the air inlet on the back of the main body when flashing the treatment area; however, there will be no problem.
- Points for IPL hair removal (See this page.)
- · When the appliance beeps, preparation for flash is complete.



Points for proper IPL hair removal

Point 1

Apply the flash switch perpendicularly against the skin and keep it pressed against the skin.



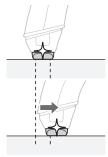


Point 2

The size of the area is a quide for the IPL hair removal range of each flash.







- (a) Body attachment
- (b) Face attachment
- · When the appliance beeps, preparation for flash is complete.

Continuous flashes

After one flash, slide the appliance to the next flash area while it is still pressed against the skin. Up to 10 continuous flashes at an interval of approximately 3 seconds is possible.



- •The flash window will no longer flash after 10 flashes. Remove the appliance from the skin and try again.
- Do not use the appliance continuously on the same area.
- Depending on usage conditions, the flash interval may vary.

For healthy skin

The following care is recommended after IPL hair removal.

 Cool the skin using a towel soaked in ice water.



Moisturize the skin with the lotion etc.



Lamp indication

► Normal indication

強度 1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、1、	The level indication lamp (blue) blinks (once/second). The image on the left is when level 5 is selected.
*	Preparation for flash in progress.
强度 ①	The level indication lamp (blue) glows. The image on the left is when level 5 is selected.
→	Flashing is possible.

► Charging notification

强度 1 5	(red) blinks (once/second).
快速 充	The battery level is low. Charging is recommended.

► Malfunction display

[Abnormal charging]

The charging indication/notification lamp (red) blinks quickly (twice/second).

强度 1

Recommended ambient temperature for charging is 15 – 35 °C. Check the room temperature of the place where the appliance is going to be charged, and charge it again.

[Other malfunctions]

The level indication lamp (blue), quick charging indication lamp (red) and charging indication/notification lamp (red) blink simultaneously (once/second), the appliance beeps twice, and the power turns off after 5 seconds.



The appliance may not operate in an ambient temperature lower than approximately 5 °C. Check the room temperature of the place that the appliance is going to be used, and turn it on again.

(The appliance may not adapt to the room temperature immediately after changing the location.)

If the symptom occurs repeatedly, contact an authorized service center.

Cleaning

Always turn the main body power off and wait for 2 to 3 minutes before cleaning.

► Flash window/Light guide

1. Remove the attachment.



2. Wipe any dirt clean carefully with a dry cloth.

Flash window



Light guide



3. Attach the attachment. Insert until it clicks.



► Air inlet

Wipe any dirt clean with a dry cloth.





Is it alright to use the

appliance everyday?

Q&A Question **Answer** What type of light is Instantaneous flash from a W emitted from the flash xenon lamp. sr window? This is because of unstable Why can the appliance hormone balance when be used only by those growing up and the skin can over the age of 18? become sensitive easily. Only use the appliance on br underarms, arms, legs, ap On which areas can bikini-line and face (when pr the appliance be using face attachment). used? (Do not use the body attachment on the face or other areas.) Using the appliance on the same area everyday is not

recommended.

(See page 31.)

Please follow the guide for treatment frequency and time.

Question		Answer
/hy is there a burning mell after a flash?	•	This is because the flash applies heat to unwanted hair, and is not a sign of a malfunction. Shave any hair if it has grown too long. Also remove all trimmings remaining on the skin.
he light feels very right while using the ppliance but is this a roblem?	•	Apply the flash switch closely against the skin. (See page 35.) If the light is still a concern, wear sunglasses or other eye protection.
an the flash lamp be placed?	•	The flash lamp cannot be replaced. If the flash lamp is damaged or the like, please contact the store where you purchased the unit or a service center authorized by Panasonic for repair.

Anewor

Question

Question

The light feels hot while using the appliance but is this a problem?

The treated skin turns red while using the appliance but is this a problem?

The pain and redness do not subside after use but is this a problem?

During charging, quick charging does not start? (Quick charging indication lamp does not glow)

Answer

The sensation is different for each person but it may feel hotter if hair has not been shaved properly.

- Treated skin may temporarily turn red or feel painful depending on the body type or condition of the person using the appliance. Stop using the appliance immediately, and keep the skin cool and moist. If the symptoms subside within 2 days, use the
- appliance at a level that the symptoms do not appear. If the symptoms persist after 2 days, consult a dermatologist. (See page 34.)

Depending on the remaining capacity of the battery, normal charging starts rather than Quick charging. (Charging indication/

(Charging indication/ notification lamp only glows) (See page 32.)

Question

I used the appliance after completing quick charging, but the charging indication/ notification lamp blinks immediately?

When the remaining capacity of the battery is low (charging indication/notification lamp blinks), does the flash power drop?

Can the appliance be used by men?

Dirt on the light guide cannot be removed.

Answer

If the appliance is used immediately after completing quick charging, the charging indication/notification lamp blinks. (Approximately 40 flashes possible) (See pages 32 and 33.)

Regardless of the remaining capacity of the battery, the flash power is the same.

Men can use the appliance apart from on the beard, but because generally men have more and thicker body hair than women, the stimulation of the skin may be stronger. If the dirt cannot be removed even after cleaning, contact

purchased the unit or a service center authorized by Panasonic for repair.
[Repair part]
Body attachment:

the store where you

WESWH93S3107

Troubleshooting **Problem** Action Check that the level indication lamp (blue) has changed from blinking to glowing. Press the flash switch perpendicularly against the The flash window skin until it flashes. (See does not flash. page 35.) If 10 continuous flashes have been emitted, temporarily move the appliance away from the skin The flash preparation time The flash preparation may become longer to time is long. prevent the main body from overheating. The power turned off Use the appliance in an ambient temperature after all lamps blinked and the appliance approximately 5 °C or higher. beeped twice. (See page 37.) For safety reasons, the power will turn off automatically if The power turned off the appliance is not used for approximately 1 minute after during use. the power is turned on. Turn the power on again.

Problem		Action
The appliance can only be used a few times after charging.	•	The battery has reached the end of its life. (See this page.)
The appliance does not operate even after pressing the power switch.	•	Press and hold the power switch (for approximately 3 seconds) when turning the power on.
	•	Charge the appliance. (See page 32.)

If the problems still cannot be solved, contact the store where you purchased the unit or a service center authorized by Panasonic for repair.

Battery life

Approximately 3 years.

If the operating time is significantly shorter even after a full charge, the battery has reached the end of its life. (The battery life may change due to usage and storage conditions.)

The battery in this appliance is not intended to be replaced by consumers. Have the battery replaced by an authorized service center.

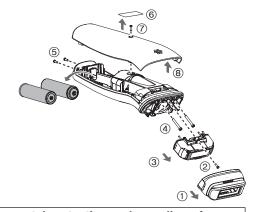
Removing the built-in rechargeable batteries

Remove the built-in rechargeable batteries before disposing of the appliance.

Please make sure that the batteries are disposed of at an officially designated location if there is one.

This figure must only be used when disposing of the appliance, and must not be used to repair it. If you dismantle the appliance yourself, it may cause malfunction.

- Remove the appliance from the AC adaptor.
- If the appliance can be turned on and emit light, use it until the battery is depleted.
- Wait for at least 10 minutes after turning the power off before disassembling the appliance.
- Perform steps ① to ⑧ and lift the battery, and then remove it.
- Take care not to short circuit the positive and negative terminals of the removed battery, and insulate the terminals by applying tape to them.



For environmental protection and recycling of materials

This appliance contains Li-ion batteries.

Please make sure that the batteries are disposed of at an officially assigned location, if there is one in your country.

Specifications

Product name	IPL Hair Removal System
Product model	ES-WH93
Rated input	100-240 V∼ 50-60 Hz 180 mA
Rated output	4.8 V=== 1.25 A
Charging time	Approx. 3 hours
Place of origin	Main body: Japan AC adaptor: China
Date of production	See engraving on the commodity.
Execution standard	GB4706.1, GB4706.9, GB4706.15

This product is intended for household use only.

MEMO	

制造商:松下电器产业株式会社

日本大阪府门真市大字门真1006番地

进口商:松下电器(中国)有限公司

北京市朝阳区景华南街5号 远洋光华中心C座 3层、6层

原产地:日本(本机),中国(电源适配器)

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