



LEICA CINE 1

快速入门指南

QUICK START GUIDE

前言

尊敬的客户：

祝愿您尽情享受新款激光电视带来的无穷乐趣与极致体验。请阅读本手册，熟悉激光电视提供的全部功能。
徠卡智能投影公司

供货范围

在首次使用激光电视之前，请检查随附的配件是否完整。标准供货范围*包含以下各项：

- Leica Cine 1
- 遥控器
- 2 节七号 (AAA) 电池
- 电源线
- 快速入门指南

*实际供货范围可能因型号而异。

警示

- 干燥剂和塑料袋必须存放在儿童无法触及的地方。塑料袋有窒息的危险，误食干燥剂会危害健康。

只有本手册或徠卡智能投影公司指定和描述的配件才能与激光电视一起使用（电源插头、电源线、电缆等）。这些配件只能与本产品一起使用。第三方配件可能会导致产品故障或损坏。
对于将设备用于非预期用途而造成的损失，徠卡智能投影公司概不负责。

在首次使用激光电视之前，请阅读“法律信息”、“安全说明”和“一般信息”章节。了解这些内容可以防止不慎损坏产品，避免造成可能的伤害和其他风险。

法律信息

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技术参数

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第三方商标和徽标



术语 HDMI 和 HDMI 高清多媒体接口以及 HDMI 徽标为 HDMI Licensing Administrator, Inc. 在美国和其他国家/地区的商标或注册商标。



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法规信息

环保声明

本产品符合《电器电子产品有害物质限制使用管理办法》的环境要求。在环保使用期限内，消费者使用过程中不会出现有害物质泄漏或析出。不存在消费者健康问题，您可以放心使用。

处置回收提醒：

当不再需要使用本产品或其使用寿命结束时，请遵守有关回收废弃电气电子产品的国家/地区法律法规，将其转交给当地具有国家认可的回收资质的厂家进行回收。

含有害物质的组件需要进行合理地处置，不得随意丢弃。

环保使用期限：

• 本产品的环保使用期限为 10 年。	
• 与本产品一起使用的配件遥控器电池的环保使用期限为 1 年。	

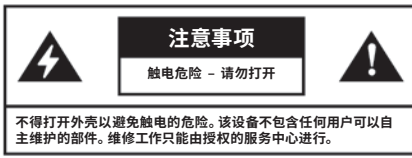
部件名称	产品中有毒物质的名称及含量						备注
	有害物质						
	铅及其化合物	汞及其化合物	镉及其化合物	六价铬化合物	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
激光光源	×	○	○	○	○	○	
光机组件	×	○	○	○	○	○	
电路板组件	×	○	○	○	○	○	
电源线及连接线	×	○	○	○	○	○	
非阻燃塑料和聚合物部件	○	○	○	○	○	○	
阻燃塑料和聚合物部件	○	○	○	○	○	○	仅部分机型含该部件
金属部件	×	○	○	○	○	○	
附件 (遥控器 / 电池等)	×	○	○	○	○	○	仅部分机型含该部件

本表按照 SJ/T 11364 的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

表中标记为 × 的材料目前在技术上具有不可替代性。此部分材料的使用符合《电器电子产品有害物质限制使用管理办法》和《达标管理目录限用物质应用例外清单》的要求。我们致力于研究和采用新材料和新技术。如果在技术上可行，我们将逐步取代或取消这些材料的使用。



其他标识符

本产品（包括配件）上显示的图标含义如下：

交流电 (AC)	II 类设备（产品采用双层绝缘设计）
直流电 (DC)	

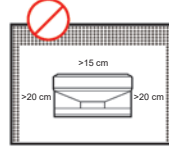
关于使用 WLAN/蓝牙® 的重要说明

- 如果使用的设备或计算机系统需要比 WLAN 设备更严格的安全保护，则必须采取适当的措施，确保安全性并防止系统遭到破坏。
- 我们推测销售本设备的国家/地区使用 WLAN 功能。在其他国家/地区使用本设备时，可能存在违反法定无线通信法规的风险。徠卡智能投影公司对此类违规行为概不负责。
- 通常，还存在未经授权的第三方截获无线通信数据的风险。我们强烈建议您在无线接入点设置中激活加密功能，以确保数据安全。
- 避免在可能暴露于磁场、静电或其他干扰的地方（如微波炉附近）使用本设备。否则，射频传输可能无法到达设备。
- 在使用 2.4 GHz 射频频段的微波炉或无线电话等设备附近使用本设备时，可能会对两种设备的性能产生不利影响。
- 连接到未经授权使用的无线网络可能是非法的，应避免出现此情况。
- 一旦启用 WLAN 功能，设备将自动搜索无线网络。此时将会显示一个列表，其中包括您未被授权访问的网络（SSID: WLAN 网络的网络标识符）。切勿尝试连接到第三方网络，因为这可能被视为未经授权的访问。
- 只允许在封闭空间内使用 5150 MHz 到 5350 MHz 之间的 WLAN-RF 频段。

安全说明



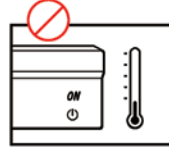
不得直接接触或用清洁布擦拭镜头，否则可能会损坏镜头涂层，从而对图像质量产生不利影响。



必须保持建议的距离（见图示），确保设备充分通风。



不得在镜头上方或前方放置任何物体，因为激光会使物体大幅升温。火灾危险！



在环境温度低于 5°C 或高于 40°C 的情况下，不得开启激光电视。



不得将激光电视放置在通风有限的封闭空间内，否则将导致设备过热。



切勿将液体溅洒到激光电视上，否则将导致严重损坏。切勿将饮料放在激光电视上或附近！



对设备的任何操作都存在触电危险。未经授权的人员不得拆卸、重新组装或维修设备。一旦设备被拆卸、重新组装或维修，制造商的保修将失效。

一般信息

- 不保证与第三方产品、软件和服务的兼容性。对于因操作、使用或连接到不兼容的设备或应用程序而导致的损坏或损失，我们不承担任何责任。
- 在本设备或其他设备上录制和渲染内容可能需要获得相关内容权利持有人的许可。用户有责任确保遵守使用国家/地区适用的版权法律和法规。如有疑问，请联系权利持有人。
- 等边三角形内的闪电图标表示通知用户，产品外壳内存在未绝缘的危险电压，其强度可能足以导致电击。
- 等边三角形内的感叹号表示通知用户，随附的设备文件中详述了重要的操作和维护说明。
- 干燥剂和塑料袋必须存放在儿童无法触及的地方。塑料袋有窒息的危险，误食干燥剂会危害健康。

工作条件和使用

- 本设备设计用于在家中或办公室显示视频和音频信号。不得在环境湿度大或灰尘浓度高的地方使用。保修仅适用于按照预期用途操作本设备的情况。
- 环境湿度大或灰尘浓度高可能导致短路。
- 切勿将设备暴露于雨水、湿气、滴水或溅水的环境下，也不要设备上或附近放置装有水的物体（如花瓶或杯子）。不得用湿手触摸设备。
- 切勿将设备直接安装在空调机组前面。
- 如果安装地点改变，且环境温度发生明显变化，则在所有累积的冷凝水蒸发之前，不得开启设备。
- 让设备远离明火（如蜡烛）。让设备远离热源或高温。
- 如果设备出现异常情况，请立即拔掉电源插头。
- 万一发生火灾，建议使用二氧化碳或干粉灭火器。如果没有此类灭火器，在用水灭火之前，必须先切断主电源。
- 如果有物体或水进入设备，请立即从墙壁插座上拔掉电源插头。请联系徕卡客户服务中心。
- 切勿用尖锐或金属物体接触设备上的任何接口或其他开口，否则可能导致短路、产品损坏和电击。
- 不得将激光电视放置在凹凸不平的表面上。设备可能会翻倒，导致严重伤害，甚至死亡。
- 许多伤害（特别是对儿童的伤害）可以通过采取以下简单的安全措施来预防：只使用制造商建议的柜子或支架和/或具有适当载重能力的家具，以安全固定设备。设备不得突出于家具边缘。如果设备或家具无法牢牢固定，则不得将设备安装在较高的家具（如壁橱或书架）上面。设备必须直接放置在家具上（而不是放置在桌布或类似物品上）。必须让儿童意识到在家具上攀爬所带来的危险（例如，为了接触激光电视或其遥控器）。这些说明同样适用于之后改变位置的情况。
- 不得让儿童在无人看管的情况下在设备附近玩耍。设备可能会翻倒、被意外地从底座上推下或拉下，导致人身伤害。禁止儿童站在或爬到设备上。
- 一旦开机，设备不得处于无人看管的状态。
- 处理活动部件时应小心（有受伤危险）。

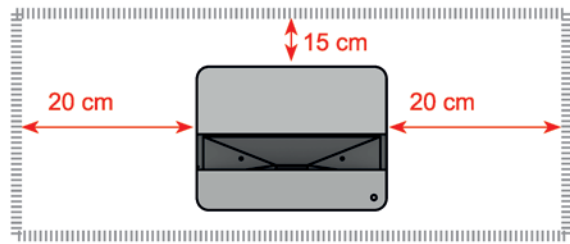
电源

- 电压输入不正确会损坏设备。设备只能连接到符合设备铭牌上注明的电压和频率的电源上，并且只能通过随附电源线连接。
- 所使用的电源插座必须始终能够自由使用。
- 只要设备连接到电源插座就会耗电，包括在待机模式下。
- 我们建议为本设备单独使用一条电路。电源插座不得装载过多的设备。电源插座过载和使用多条延长线均存在安全隐患，可能导致电击和火灾。
- 在关闭设备后 5 秒内，不得再次开启设备。频繁激活/停用电源可能会妨碍设备的正常功能。

网络和电源线

- 不得用湿手触摸设备。
- 电源线的布设方式必须保护其不受扭结、尖锐边缘、化学品和高热源的影响。切勿将重物压在电源线上。损坏的电源线存在触电危险和火灾危险。
- 仅通过插头主体来拔下电源插头。切勿通过拉拽电线来拔下。
- 只要设备连接到电源插座上，就不能移动它。
- 仅使用本设备随附的电源线。不得使用损坏或松动的电源线或损坏的电源插座。
- 在雷暴期间，必须拔掉连接的所有天线电缆和电源线。由于雷击造成的电气过载会通过天线电缆和电源线损坏设备。

通风和高温



- 设备必须始终保持良好的通风。设备两侧必须始终留出至少 20 厘米的空间，背面必须留出 15 厘米的空间，确保最佳的空气流通。
- 热量过多和通风不足会导致一些电气元件过早失效，可能构成火灾危险。
- 通风口在任何时候都必须畅通无阻。
- 切勿在设备运行时或刚刚关机后触摸设备，因为它可能非常烫。
- 切勿将任何异物放入通风口！

遥控器电池

- 只能使用本手册中规定和描述的电池类型。任何不正确的电池使用或使用未经认可的电池类型都可能导致爆炸！
- 电池插入不正确可能导致漏液、腐蚀或爆炸。
- 只能用同一类型的电池进行更换。切勿将耗尽的电池与新电池或不同类型的电池混合使用。
- 切勿将电池长时间暴露于阳光直射、高温、潮湿或湿气环境下。切勿将电池放在微波炉或高压容器中，因为这将构成火灾或爆炸危险！
- 切勿将电池丢入火中，也不要试图加热、充电、拆卸或破坏电池。
- 必须遵守适用的处置规定。
- 耗尽的电池绝不能与生活垃圾一起处置，因为它们含有对环境有害的有毒物质。
- 如果您长时间不使用本产品，请将电池从外壳中取出。如果电池漏液，必须用布把电池舱擦干净。
- 请勿使用碱性电池、标准（碳锌）电池或充电（镍镉、镍氢等）电池。
- 电池必须始终存放在儿童无法触及的地方。电池绝不能无人看管的情况下到处乱放，因为它们可能被儿童或宠物误食。误食电池会导致窒息。误食电池还可能造成严重的内伤，甚至死亡。

急救

- 如果电池液接触到眼睛，可能会导致失明。应立即用清水彻底冲洗眼睛。避免揉搓。立即寻求医疗救助。
- 如果泄漏的电池液接触到衣服或皮肤，会造成伤害危险。用清水彻底冲洗受影响部位。

家用天线接地

- 在使用家用天线的情况下，天线系统必须采用适当的保护措施，防止过电压和静电放电。

音量

- 嘈杂的音乐和噪音会对听力造成不可挽回的损害。应避免使用极端音量，特别是在长期暴露和使用耳机时。
- 如果出现耳鸣或耳痛，请立即降低音量，或暂时不使用耳机。

关于本激光产品的警告

注意事项

- 本设备配有激光模块。切勿以任何方式拆卸或改装设备，否则可能造成伤害危险。发射激光辐射可能构成严重的健康风险。
 - 设备运行期间切勿直视镜头。切勿直视所发射的光束！否则，可能会对眼睛造成严重损害，甚至永久失明！
 - RG2: 切勿直视所发射的光束！
- IEC 62471-5: 2015
1 类激光产品
 $\lambda = 459-471 \text{ nm}/519-531 \text{ nm}/635-651 \text{ nm}$
- 本手册中未描述的任何操作或对设备进行的任何改动都可能导致危险的辐射暴露。
 - 如果本设备需要维修，必须佩戴光学密度为 4 或以上的护目镜（波长 459-651 nm）。

**CLASS 1
LASER PRODUCT**

一般信息

- 新产品和材料可能通过蒸发作用向空气中释放化学物质。因此，在最初几个小时的运行中，设备会产生一些气味。这是由设备的一些部件首次加热引起的。所使用的全部材料完全符合环境要求和规定。产生气味的蒸气会随着时间的推移而减少。我们建议在实际初次使用前，先在通风良好的环境下运行设备一段时间。
- 所有数据（包括个人信息）都可能因为不正确或意外操作、静电放电、事故、故障、维修以及其他行为而被更改或删除。对于因操纵或破坏数据和个人信息而造成的直接或间接损失，徕卡智能投影公司不承担任何责任。

保养和储存

- 切勿在设备运行时或刚刚关机后触摸设备，因为它可能非常烫。
- 切勿用油擦拭设备，因为这可能腐蚀表面或损坏涂层。
- 长时间直接接触橡胶或乙烯产品会污染本设备。
- 不得直接接触或用清洁布擦拭镜头，请使用除尘器清除镜头上的灰尘。油脂、污垢和指纹必须由专业人员使用光学清洁布、擦镜纸或专业清洁液仔细清理干净。否则，镜头上的光学薄膜会被破坏，从而对图像质量产生不利影响。
- 在清洁之前，请务必关闭设备并断开电源线。
- 设备和遥控器应始终使用柔软、湿润、干净、自然染色的布料进行清洁。请勿使用任何化学品。
- 如果设备暴露于杀虫剂、溶剂或其他挥发性物质，设备的表面或玻璃组件可能会被损坏，甚至损毁。
- 在清洁过程中，不得将水或其他液体直接喷洒或倾倒在设备上，否则将导致严重损坏。
- 电源插头可以定期用干布擦拭。
- 只要设备插入电源插座就会耗电，包括在待机模式下。如果设备长时间无人看管，必须拔掉电源插头和连接的所有天线电缆。
- 电源插头用作断开装置，必须在任何时候都能轻松触及。

维护和维修

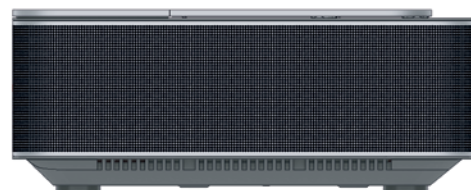
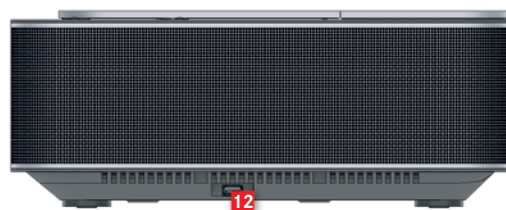
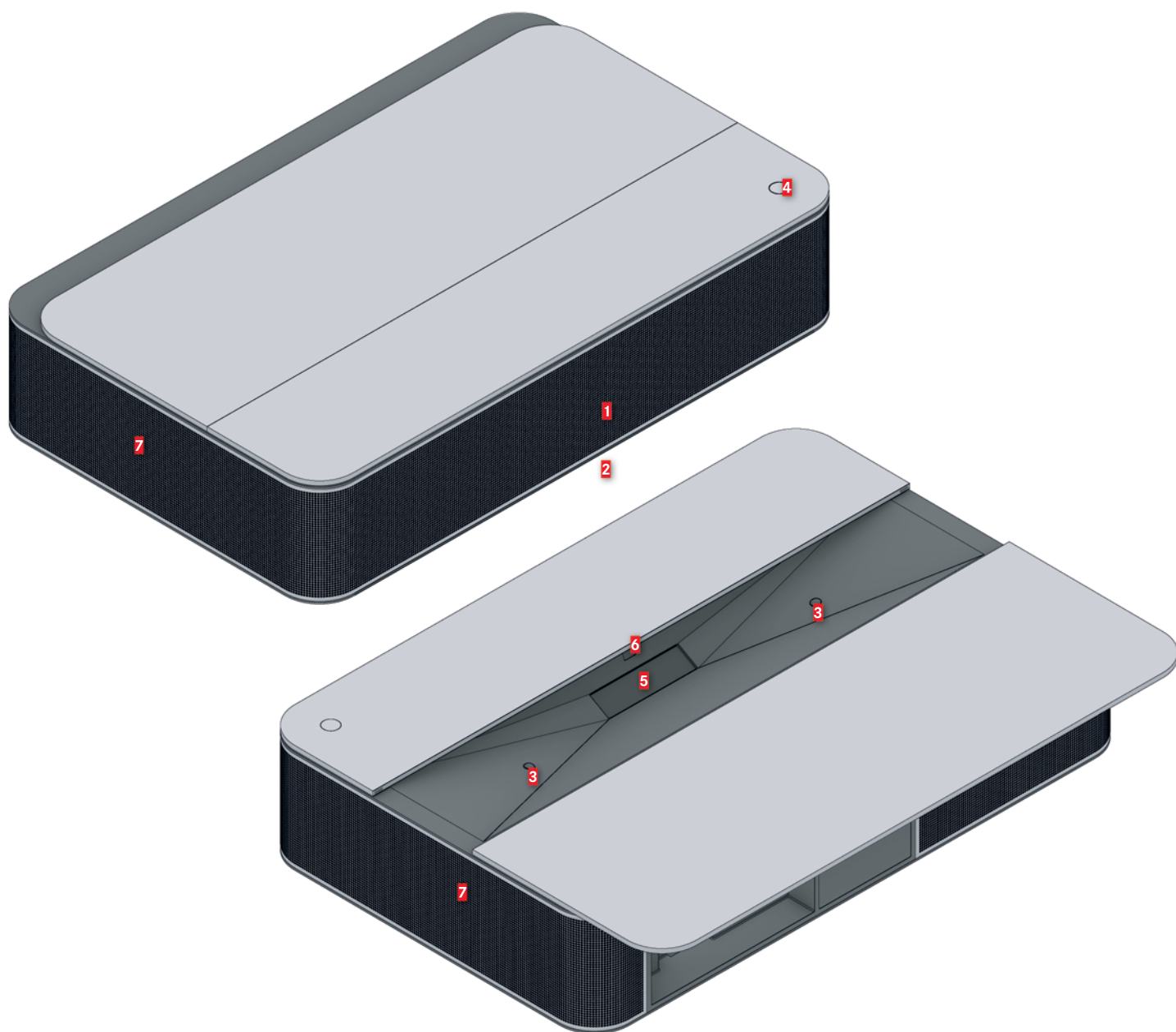
- 外壳不得打开，以防触电危险。设备不包含任何用户可自主维护的部件。维修工作只能由授权维修厂进行。

保修

除了关于零售商的法定保修权利外，您还将收到一份额外的徕卡智能投影公司产品保修书，该保修书从徕卡授权零售商处购买之日起生效。以前，产品保修书包含在产品包装中。作为一项新服务，从现在开始，产品保修书将仅在网上提供。您将能够随时查阅您的产品保修条件，而无需搜索文件。请注意，这项新政策仅适用于那些不再随附纸质产品保修书的产品。任何随附保修文件的产品仍然只受该文件制约。有关保修范围、保修服务和限制的更多信息，请访问：

<https://warranty.leica-camera.com>

部件名称



1 状态 LED

2 遥控器接收器

3 护眼传感器

4 电源开关

注意事项

当开机或关机时，盖子会自动打开/关闭。盖子的移动不能被物体或手指等阻挡，否则可能会对设备造成损害或导致人身伤害。

5 激光镜头

注意事项

设备运行期间切勿直视镜头。切勿直视所发射的光束！否则，可能会对眼睛造成严重损害，甚至永久失明！

6 异物传感器

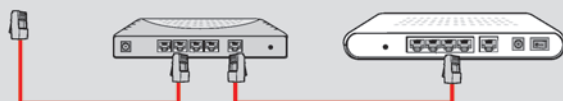
7 通风格栅

8 服务端口

9 以太网端口



Cine 1



注释

· 需要使用路由器来建立互联网连接。

10 天线端口

适用于 VHF/UHF 天线的天线电缆 (75Ω)



11 外部设备的 HDMI 端口

12 USB 端口

13 音频输出

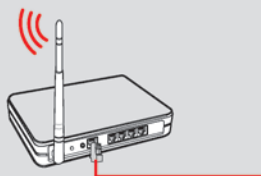


14 串行通信端口 (RS232)

15 Wi-Fi 模块

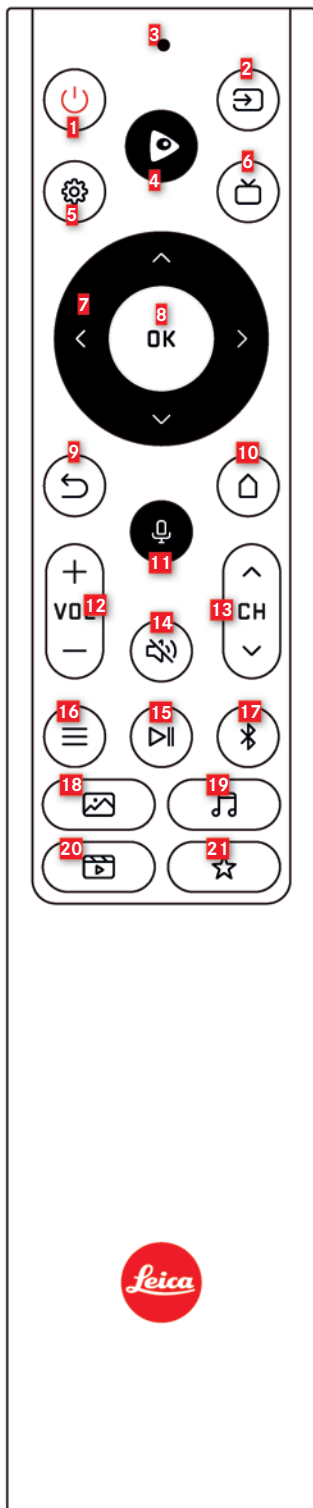


Cine 1



16 电源接口

遥控器



1 按钮
打开/关闭激光电视

2 按钮
选择输入信号源

3 声控麦克风

注释

· 该功能仅在某些国家或地区受支持

4 按钮
聚好看快速访问 > AI 内容识别

5 按钮
访问设置

6 按钮
直播电视
返回到直播电视
在启动器中进入直播选项卡
显示电子节目指南 (如支持) *

7 按钮 (方向按钮)
- 菜单导航
- 调整系统设置

8 OK 按钮
确认选择

9 按钮
在菜单或应用程序中返回到之前的位置
显示菜单

10 按钮
显示主屏幕

11 按钮
语音命令

12 音量

13 CH 按钮
更换频道

14 按钮
打开/关闭静音

15 按钮
媒体内容控制按钮

16 按钮
按下即可进入菜单

17 快速访问按钮: 蓝牙扬声器模式

18 快速访问按钮: 画面模式

19 快速访问按钮: 声音模式

20 快速访问按钮: 媒体中心

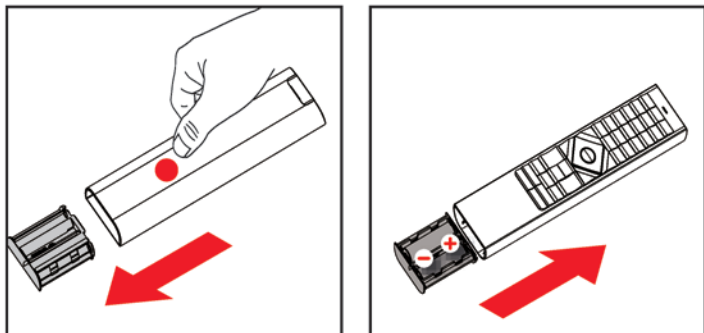
21 快速访问按钮: 收藏夹

* 在不同的情景下按下该按钮将产生不同的反应。

更换电池

请注意“安全说明”部分提供的关于电池处理的信息。

- ▶ 按下背面的标记
 - 电池舱解锁。
- ▶ 如图所示，滑开电池舱盖
- ▶ 插入两节七号 (AAA) 电池
 - 确保电池极性正确。
- ▶ 如图所示，滑入电池舱盖将其盖紧





注释

- 如果遥控器的温度很高，甚至发烫，请勿使用。

遥控器工作范围

遥控器在距离激光电视 8 米的范围内可正常工作。在距离 6 米的位置，可以将遥控器倾斜 $\pm 30^\circ$ (水平) 或 $\pm 15^\circ$ (垂直) 角。如果遥控器尚未配对，这个角度可以通过红外线被覆盖到。

配对遥控器

- ▶ 开启设备
- ▶ 将遥控器保持在设备的 3 米半径范围内
- ▶ 同时按住  按钮和  按钮至少 3 秒。
 - 配对过程将开始。
 - 显示区域将出现一条消息，表明配对是否成功。

注释

- 如果遥控器出现未知错误，可能是连接错误的原因。重新尝试配对也许能解决该错误。
- 如果遥控器出现未知错误，有时可以通过取出电池，然后按住任何按钮 1-2 秒来解决该错误。
- 如果激光电视处于待机模式，则配对不会成功。

初次使用前

新产品和材料可能通过蒸发作用向空气中释放化学物质。因此，在最初几个小时的运行中，设备会产生一些气味。这是由设备的一些部件首次加热引起的。所使用的全部材料完全符合环境要求和规定。产生气味的蒸气会随着时间的推移而减少。

我们建议在实际初次使用前，先在通风良好的环境下运行设备一段时间。

安装屏幕

查看产品用户手册了解相关信息。

装配设备

- 本设备应始终由两个人搬运。
- 在搬运设备时，必须始终确保镜头得到保护。
- 我们建议在将设备放置在其最终位置之前，先将设备背面的所有电缆插上。
- 确保所有电缆都正确地插入正确的端口。
- 电缆连接松动会对图像质量产生不利影响。

图像几何

按照以下步骤，根据屏幕对齐激光电视的图像。之后，您仍可应用几何校正进行最后的调整。建议的操作顺序如下：

使图像的下边缘保持水平

使图像的下边缘落在屏幕上

将图像的下边缘与屏幕宽度对齐

对齐右上角

对齐左上角

将图像的上边缘与屏幕宽度对齐

注意事项

设备运行期间切勿直视镜头。切勿直视所发射的光束！否则，可能会对眼睛造成严重损害，甚至永久失明！

注释

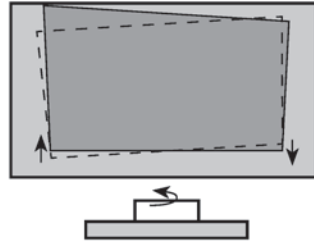
- 虚线表示对齐前的位置，阴影区表示对齐后的位置。
- 使用随附的扳手，向内或向外转动调节支脚。
- 我们建议在开始校正之前将调节支脚向内转到底。

第 1 步

使图像的下边缘保持水平

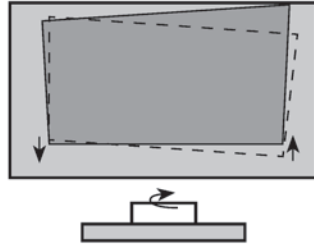
图像的下边缘左边较低, 右边较高

- ▶ 逆时针转动设备



图像的下边缘左边较高, 右边较低

- ▶ 顺时针转动设备



第 2 步

使图像的下边缘落在屏幕上

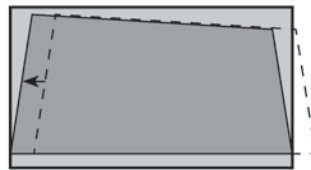
图像向左偏

- ▶ 将设备向右移一点



图像向右偏

- ▶ 将设备向左移一点



注释

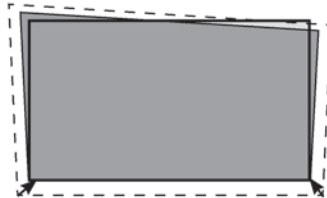
- 图像的下边缘应始终与屏幕平行。

第 3 步

将图像的下边缘与屏幕宽度对齐

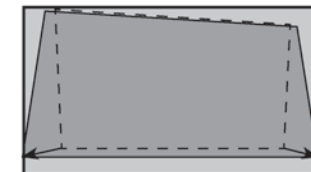
图像的下边缘太宽

- ▶ 使设备与屏幕靠近一点



图像的下边缘太窄

- ▶ 使设备与屏幕离远一点



注释

- 图像的下边缘应始终与屏幕平行。

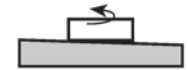
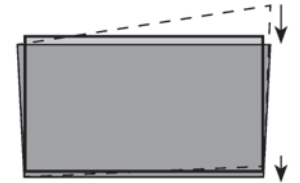
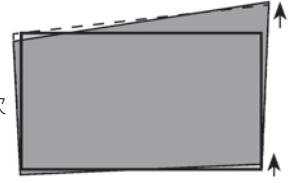
第 4 步

对齐右上角

在对齐图像的上边缘时, 可能要重复以下步骤数次, 直到图像的上边缘和下边缘都与屏幕平行。

图像的上边缘右边太高

- ▶ 将右边的两个调平脚向外转到相同的高度
- ▶ 逆时针转动设备, 直到图像的下边缘再次与屏幕平行
- ▶ 必要时, 重复这一过程



图像的上边缘右边太低

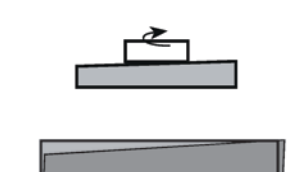
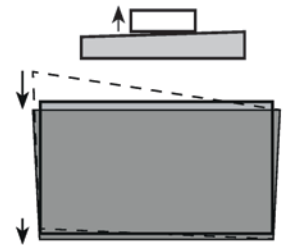
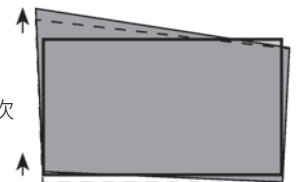
- ▶ 将右边的两个调平脚向内转到相同的高度
- ▶ 顺时针转动设备, 直到图像的下边缘再次与屏幕平行
- ▶ 必要时, 重复这一过程

第 5 步

对齐左上角

图像的上边缘左边太高

- ▶ 将左边的两个调平脚向外转到相同的高度
- ▶ 顺时针转动设备, 直到图像的下边缘再次与屏幕平行
- ▶ 必要时, 重复这一过程



图像的上边缘左边太低

- ▶ 将左边的两个调平脚向内转到相同的高度
- ▶ 逆时针转动设备, 直到图像的下边缘再次与屏幕平行
- ▶ 必要时, 重复这一过程

第 6 步

将图像的上边缘与屏幕宽度对齐

图像的上边缘太宽

- ▶ 将两个前调平脚向外转一点，直到图像的侧边与屏幕的边缘平行



图像的上边缘太窄

- ▶ 将两个后调平脚向外转一点，直到图像的侧边与屏幕的边缘平行
- ▶ 使设备离屏幕稍远一点，将图像放大到屏幕的宽度



如果两个后调平脚已达到其最大高度，无法再向外转动，那么可以尝试向内转动两个前调平脚。

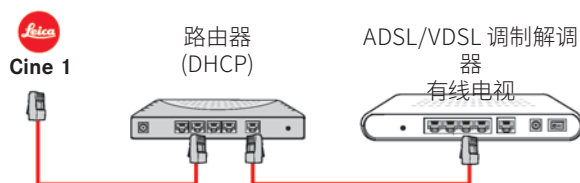


媒体源

网络

有线连接 (LAN)

- ▶ 通过 LAN 电缆 (以太网 Cat 5)，将设备背面的 LAN 端口与外部调制解调器或路由器相连。



无线连接 (WLAN)

激光电视可以通过无线方式连接到 WLAN 网络。这将需要使用 Wi-Fi 路由器或无线调制解调器。

- ▶ 在设备菜单中进入设置助手
- ▶ 按照提供的说明进行操作



注释

- 使用无线网络的设备需要激活集成的 WLAN 模块。不支持外部 USB 网络适配器。
- 如果使用的路由器支持 DHCP，连接到无线网络就会容易得多。
- 本设备支持以下安全标准：WEP、WPA、WPA2。
- 为了获得最佳接收效果，路由器和激光电视之间的距离不应超过 10 米。

USB 连接

当连接外部驱动器或 USB 集线器时，应始终使用所连接设备的电源。超过总用电量会导致损坏。USB 1.1 和 USB 2.0 设备的最大允许用电量为 500 mA。USB 端口支持的最大电压为 5 V。

注释

- 某些非标准大容量驱动器在浪涌电流大于或等于 1 A 时可能会导致激光电视重启或自锁。本设备不支持此类外部驱动器。

菜单设置

投影模式

根据激光电视相对于屏幕的位置，图像可能需要翻转或镜像。

几何校正

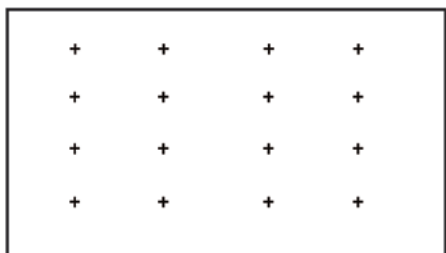
自动

如果激光电视和移动设备连接到同一个 WLAN 网络，即可进行自动几何校正。

- ▶ 定位设备
- ▶ 您可能需要调整调平脚的高度，才能将整个投影图像放入屏幕区域（见第 9 页）。



- ▶ 进入自动几何校正的菜单功能
- ▶ 确认自动校正
 - 所有以前的数据都将被删除。
- ▶ 确保移动设备和激光电视连接到同一个网络
- ▶ 在菜单中选择“Next”（下一步）
- ▶ 用移动设备扫描屏幕上的二维码
 - 自动几何校正开始。
 - 屏幕上会出现一个对齐网格。



- ▶ 在移动设备上点击“+”，记录整个图像区域的图像
 - 在大约 3 米的距离上进行横向记录，可获得最佳效果。
- ▶ 在移动设备上点击“Upload”（上传）
 - 此时便会执行校正。

手动

在此校正过程中，使用遥控器移动各个点，使投影图像与屏幕完全对齐。

- ▶ 使用遥控器的方向键选择需要校正的点
- ▶ 按下 OK 按钮
- ▶ 使用方向键来移动所选的焦点
 - 按住不动：快速更改。
 - 按下再松开：微调设置。
- ▶ 按下 OK 按钮
 - 设置将被保存，您可以继续校正下一个点。

恢复出厂设置

- ▶ 选择“Reset”（重置）按钮

注释

- 手动几何校正仅适用于特定的设备型号和国家/地区

护眼模式

注意事项

设备运行期间切勿直视镜头。切勿直视所发射的光束！否则，可能会对眼睛造成严重损害，甚至永久失明！

护眼模式可以防止因意外直视光束而导致的角膜损伤。如果有人正在投影仪运行时靠得太近，光线输出将在倒计时 5 秒后暂时停用。

我们强烈建议始终保持激活护眼模式！

菜单概述

包括网络连接在内的其他设置可以在菜单项“Laser TV settings”（激光电视设置）下进行配置。

Language (语言)	菜单语言
TV Mode (电视模式)	可用选择：“Home Mode”（家用模式）或“-Store Mode”（商用模式）
Projection Mode (投影模式)	各种模式，具体取决于激光电视的摆放
Wireless Network (无线网络)	如果无法连接或不想连接以太网，可以在此菜单项下设置 WLAN 连接。可以从显示的网络列表中添加一个网络，也可以添加一个隐藏的网络。
Country (国家/地区)	使用设备所在的国家/地区
Time zone (时区)	使用设备所在的时区
Auto Geometric Correction (自动几何校正)	将通过应用程序执行自动几何校正，任何现有的校正数据将被覆盖
End User License Agreement (最终用户许可协议)	本设备的使用受最终用户许可协议的制约。如果不接受最终用户许可协议，设备的所有智能功能将保持停用状态。所有智能功能均可被单独激活和停用。激活所有智能功能，即表示接受相关的数据保护条例和规定。
Improved Display (改善显示效果)	让图像和声音模式自动适应所显示的内容（前提是它们被自动内容识别服务正确识别）。该功能仅适用于特定的设备型号和国家/地区
Setup Screen for TV Account (电视帐户的设置屏幕)	将激光电视与电视帐户相关联。

常见问题

在许多情况下，激光电视的问题都可以通过简单的重启设备来解决。如果重启后问题仍然存在，下面的建议可能会有帮助。

问题	需要检查的可能原因	故障诊断建议
显示		
设备开机后需要几秒钟才能显示图像	电视初始化并搜索有关早期设置的信息	耐心等待设备准备就绪
投影仪的光输出太低，工作指示灯闪烁红色 5 次	异物传感器检测到物体	移除该物体
	异物传感器脏污	清洁异物传感器
声音和显示		
没有声音或没有图像	激光电视的电源断开	确保电源线正确连接到电源插座上。 如果 LED 灯亮起，则表示设备已连接到主电源。
	激光电视处于待机模式	按下遥控器上的 ⏻ 按钮
连接外部信号源后没有图像/没有声音	连接问题	检查连接情况（信号源的输出端口正确，激光电视的输入端口正确）
图像正常，但没有声音	音量太小	检查音量设置
	声音输出停用	检查设备是否被设为静音
声音正常，但没有图像，或只有黑白图像	软件或系统崩溃	从电源插座上拔掉电源线，60 秒后再插上
	颜色设置不正确	检查颜色设置是否设为 50 或更高
	没有有效的接收信号	尝试不同的电视频道
声音和/或图像失真或出现波浪线	附近有电气设备干扰	关闭附近的所有电气设备，或将它们放置在离激光电视更远的地方
	激光电视的电源断开	尝试连接到另一个电源插座
声音和图像模糊不清或时有时无	没有接收信号/接收信号不佳	当使用外部天线时：检查天线的方向、位置和连接
		调整天线的排列、重置频道，或微调频道
塑料外壳发出咔哒声	工作过程中的温度变化可能导致设备轻微膨胀或收缩，这可能会引起咔哒声	这是完全正常的，设备处于完美的工作状态
遥控器不工作	激光电视的电源断开	确保电源线正确连接到电源插座上。 如果 LED 灯亮起，则表示设备已连接到主电源。
	没有插入电池或电池电量耗尽	更换电池
	电池未正确插入	检查极性并正确插入电池

技术参数

型号名称	Leica Cine 1 - 100	Leica Cine 1 - 120
活动图像对角线	100"	120"
图像分辨率	3840 x 2160px (4K)	3840 x 2160px (4K)
音频输出强度	2x25W	2x25W
电源	120-240V ~ 50/60Hz	120-240V ~ 50/60Hz
能耗		
正常工作	最大 300W	最大 300W
待机模式下的能耗	≤0.5W	≤0.5W
接收器系统频率	PAL (D/K、B/G、I)、DVB-C (USB-CAM)、NTSC(M)、DTMB-TH PAL、NTSC	PAL (D/K、B/G、I)、DVB-C (USB-CAM)、NTSC(M)、DTMB-TH PAL、NTSC
接收频道	广播电视频道 C01 ~ C57 有线电视附加频道 Z01 ~ Z38	广播电视频道 C01 ~ C57 有线电视附加频道 Z01 ~ Z38
Wi-Fi 6	802.11 AX 2.4 / 5.0 GHz	802.11 AX 2.4 / 5.0 GHz
蓝牙	是 (5.0)	是 (5.0)
天线阻抗	75Ω	75Ω
工作条件	温度: 5°C-40°C 湿度: 20%-80% RH 大气压力: 86kPa-106kPa	温度: 5°C-40°C 湿度: 20%-80% RH 大气压力: 86kPa-106kPa
重量	15.1kg	15.1kg
尺寸: 长 x 宽 x 高 (主机)	600 x 378 x 149 mm	600 x 378 x 149 mm

*上述所有数据可能发生变化或存在误差。

格式	视频解码				音频解码
	类型	分辨率 (最大)	比特率 (最大)	帧率 (最大)	
.avi	Xvid	1920 x 1080	40Mbps	60fps	Dolby Audio、MPEG 1 (第 1、2、3 层)
.avi .mpg .ts	MPEG2	1920 x 1080	80Mbps	60fps	Dolby Audio、MPEG 1 (第 1、2、3 层)
.ts .mkv .avi .mp4 .flv	H.264	4096 x 2160	135Mbps	60fps	Dolby Audio、AAC、MPEG 1 (第 1、2、3 层)
.avi .mkv .mov	MPEG4	1920 x 1080	40Mbps	60fps	Dolby Audio、MPEG 1 (第 1、2、3 层)
.ts .mkv .mp4	H.265	4096 x 2160	100Mbps	60fps	Dolby Audio、MPEG 1 (第 1、2、3 层)

注释:

- Dolby Audio: 支持 Dolby Digital、Dolby Digital Plus、Dolby AC4。
- 由于视频制作工具不统一, 本机不能保证支持上面列出的所有格式。

HDMI 端口支持的信号格式		本机支持 HDMI2.0 和 HDMI1.4, 默认为 HDMI1.4。HDMI1.4 仅支持上述部分信号格式, 而 HDMI2.0 可支持上述所有信号格式。若要使用 HDMI2.0, 请转到 HDMI, 在该通道下, 按菜单键, 然后选择 HDMI 版本: HDMI2.0 或 HDMI 增强型。
RGB/60Hz	640 X 480、800 X 600、1024 X 768	
YUV/50Hz	576i、576p、720p、1080i、1080p	
YUV/60Hz	480i、480p、720p、1080i、1080p	
YUV/24Hz 25Hz 30Hz	3840 X 2160、4096 X 2160	
YUV420/50Hz 60Hz	3840 X 2160、4096 X 2160	
YUV444/50Hz 60Hz	3840 X 2160、4096 X 2160	
RGB444/50Hz 60Hz	3840 X 2160、4096 X 2160	

徕卡客户服务中心

如需维护您的徕卡设备并寻求有关徕卡产品以及订购方式的帮助和建议, 请联系徕卡智能投影公司的客户服务部门。您也可以联系客户服务部门或您所在地区的徕卡子公司提供的维修服务进行维修或保修索赔。

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工作时间: 9:00-21:00 (周一至周日)
电子邮箱: customercare.cn@leica-camera.com

<https://leica-camera.cn>

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FOREWORD

Dear Customer,
we wish you a great deal of enjoyment and every success with your new Laser TV. Please read this manual to familiarize yourself with the full scope of functions your Laser TV has to offer.
Your Leica Smart Projection GmbH ("Leica")

SCOPE OF DELIVERY

Before using your Laser TV for the first time, please check the accessories supplied for completeness. The standard scope of delivery* contains the following:

- Leica Cine 1
- Remote control
- 2x AAA battery
- Mains cable
- Quick Start Guide

*The actual scope of delivery may vary depending on model.

Caution

- Desiccants and plastic bags must be stored out of the reach of children. Plastic bags pose a risk of suffocation and desiccants are a health hazard when swallowed.

Only the accessories specified and described in this manual or by Leica must be used with the Laser TV (mains plug, mains cable, cables, etc.). These accessories must only be used with this product. Third-party accessories may result in malfunctions or damage to the product.
Leica shall not accept liability for damages arising from the use of the device for purposes other than its intended use.

Please read the chapters "Legal information", "Safety remarks", and "General information" before using your Laser TV for the first time. Knowledge of the content will prevent inadvertent damage to the product, possible injuries and other risks.

LEGAL INFORMATION

COPYRIGHT NOTICE

Compliance with copyright laws is mandatory. The recording and publication of pre-recorded media like tapes, CDs, or other published or broadcast material may breach copyright laws. The same applies for all software supplied as part of the scope of delivery.

TECHNICAL DATA

Product changes with regards to the product or services may have occurred after the editorial deadline. The manufacturer reserves the right to effect structural or shape changes, color deviations and changes to the scope of delivery or service, where these changes or deviations are reasonably acceptable for the customer, while taking into consideration the interests of Leica. To that extent, Leica reserves the right to changes and errors. The images in this manual may depict accessory, special features or other items that are not part of the standard scope of delivery or service. Some pages may contain model types and services, which are not offered in specific countries.

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REGULATORY INFORMATION

ENVIRONMENTAL STATEMENT

This product meets the environmental requirements of the "Administrative Measures for Restricting the Use of Hazardous Substances in Electrical and Electronic Products".

During the environmental protection use period, there will be no leakage or precipitation of harmful substances during consumer use. Consumer health problems, you can use it with confidence.

Disposal recycling reminder:

When this product is not needed or its life is over, please abide by the relevant national laws and regulations on the recycling of waste electrical and electronic products, and hand it over to a local manufacturer with nationally recognized recycling qualifications for recycling.

Components containing hazardous substances need to be disposed of reasonably and must not be disposed of indiscriminately.

Environmental protection use period:

• The environmental protection use period of this product is 10 years.	
• The environmental protection use period of the accessory remote control battery used with the product is 1 year.	

部件名称	产品中有害物质的名称及含量						备注
	有害物质						
	铅及其化合物	汞及其化合物	镉及其化合物	六价铬化合物	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
激光光源	×	○	○	○	○	○	
光机组件	×	○	○	○	○	○	
电路板组件	×	○	○	○	○	○	
电源线及连接线	×	○	○	○	○	○	
非阻燃塑料和聚合物部件	○	○	○	○	○	○	
阻燃塑料和聚合物部件	○	○	○	○	○	○	仅部分机型含该部件
金属部件	×	○	○	○	○	○	
附件 (遥控器 / 电池等)	×	○	○	○	○	○	仅部分机型含该部件

This form is based on SJ/T The provisions of 11364 were compiled.

o : Indicates that the content of the hazardous substance in all homogeneous materials of the part is within GB/T 26572 below the limit requirements.

x : Indicates that the content of the hazardous substance in at least one homogeneous material of the part exceeds GB/T 26572 stipulates the limit requirements.

The materials marked as x in the table are technically irreplaceable at present. The use of this part of materials complies with the requirements of the “Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products “ and the “Except List of Restricted Substances in the Standards Compliance Management Catalogue”. We are committed to the research and use of new materials and technologies. If technically feasible, we will gradually replace or eliminate the use of these materials.



OTHER IDENTIFIERS

The icons displayed on this product (incl. the accessories) have the following meaning:

Alternating current (AC)	Class II devices (the product has a double-insulated design)
Direct current (DC)	

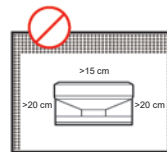
IMPORTANT NOTES REGARDING THE USE OF WLAN/BLUETOOTH®

- Appropriate measures must be taken to ensure security and protect against disruptions to the systems in place where devices or computer systems are in use that require more stringent security than WLAN devices.
- It is assumed that the WLAN function is used in the countries in which this device is sold. There may be a risk of breaching statutory wireless communication regulations when using the device in other countries. Leica shall not accept liability for such breaches.
- A general risk of unauthorized third party interception of wirelessly communicated data exists. We highly recommend that you activate encryption in the wireless access point settings to ensure data safety.
- Use of the device in areas where it can be exposed to magnetic fields, static electricity or other interferences, e.g. near a microwave oven, is to be avoided. RF transmissions may otherwise not reach the device.
- Using this device near devices like microwave ovens or wireless phones that use the 2.4-GHz RF band may negatively affect the performance of both devices.
- Connecting to wireless networks for the use of which no authorization has been granted may be illegal and should be avoided.
- The device will automatically search for wireless networks, once the WLAN function is enabled. A list, including networks you are not authorized to access, will be displayed (SSID: Network identifier for a WLAN network). Do not attempt to connect to third party network, as this could be construed as unauthorized access.
- The use of the WLAN-RF band between 5150 MHz and 5350 MHz is permitted only in enclosed spaces.

SAFETY REMARKS



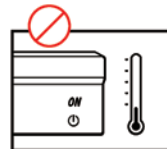
The lens must not be touched directly or wiped with a cleaning cloth. Doing so may damage the lens coating, which would negatively affect the image quality.



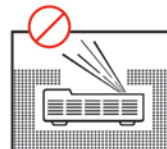
The recommended distances (see illustration) must be adhered to in order to ensure sufficient ventilation for the device.



No objects must be placed over or in front of the lens, as the laser light would cause the object to heat up considerably. Fire hazard!



The Laser TV must not be switched on in ambient temperatures of below 5°C or above 40°C.



The Laser TV must not be set up in an enclosed space with limited ventilation. Doing so would cause the device to overheat.



Do not spill liquids onto the Laser TV. Doing so would cause severe damage. Do not leave drinks on or near the Laser TV!



Any manipulation of the device poses the hazard of electrocution. The device must not be disassembled, reassembled or repaired by unauthorized parties. The manufacturer warranty is void, once a device was disassembled, reassembled or repaired.

GENERAL INFORMATION

- Compatibility of third-party products, software and services is not guaranteed. We cannot be held liable for damage or loss incurred by the operation, use, or connection to incompatible devices or apps.
- The recording and rendering of content on this or other devices may require the permission of the rights holder of the content. It is the responsibility of the user to ensure that applicable copyright laws and regulations are complied with in the country of use. If in doubt, contact the rights holder.
- The flash icon inside an equilateral triangle notifies the user of the existence of an uninsulated, dangerous voltage inside the housing of the product, which may be potent enough to cause an electric shock.
- The exclamation mark inside an equilateral triangle notifies the user of important operating and maintenance instructions detailed in the device documentation provided.
- Desiccants and plastic bags must be stored out of the reach of children. Plastic bags pose a risk of suffocation and desiccants are a health hazard when swallowed.

OPERATING CONDITIONS AND USE

- This device is designed to display video and audio signals at home or in the office. It should not be used in areas with high ambient humidity or dust concentration. The warranty applies only where the device is operated according to its intended use.
- High ambient humidity or dust concentration may result in short circuiting.
- Do not expose the device to rain, moisture, dripping or splashing liquids, and do not place objects filled with water (such as vases or cups) on or over the device. The device must not be touched with wet hands.
- Do not install the device directly in front of an air conditioning unit.
- Following a change in the installation location with a significant change in ambient temperature, the device must not be switched on until all accumulated condensation has evaporated.
- Keep open flames (e.g. candles) away from the device. Keep the device away from sources of heat or high temperatures.
- Unplug the mains plug immediately if the device displays unusual behavior.
- In case of fire, the use of a CO₂ or powder fire extinguisher is recommended. Where this type of fire extinguishers is unavailable, the mains power supply must be disconnected before using water to extinguish the fire.
- Remove the mains power plug from the wall socket immediately if an object or water gets into the device. Please contact Leica.
- Do not touch any of the interfaces or other openings on the device with a sharp or metallic object. Doing so could result in a short circuit, damage to the product, and electric shock.
- A Laser TV must never be placed on an uneven surface. The device could fall over and result in serious injury or death.
- Many injuries – specifically injury to children – can be prevented with the following simple safety measures: Only use cabinets or stands recommended by the manufacturer and/or furniture with the appropriate load bearing capacity to safely hold the device. The device must not protrude beyond the edge of the furniture. The device must not be installed on top of high pieces of furniture (e.g. a closet or bookcase) if the device or furniture cannot be anchored securely. The device must be placed directly on the piece of furniture (not on top of a cloth or similar). Children must be made aware of the danger posed by climbing on furniture (for example to reach the Laser TV or its remote control). These instructions also apply for later location changes.
- Children should not play unsupervised in the vicinity of the device. The device could fall over, be accidentally pushed from its base or pulled down and cause bodily injury. Children must not be permitted to stand on or climb onto the device.
- Once switched on, the device must never be left unattended.
- Caution with the handling of moving parts (injury hazard).

POWER SUPPLY

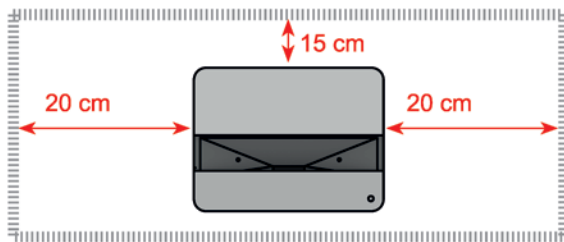
- Incorrect voltage input can damage the device. The device must only be connected to a power supply with the voltage and frequency stated on the type plate of the device and only via the mains cable provided.
- The power socket used must remain freely accessible.
- The device consumes power as long as it is connected to a power socket, including in standby mode.
- We recommend using a separate circuit for this device. Power sockets should never be overloaded with too many devices. Overloading power sockets and using multiple extension cables can be hazardous and may lead to electric shock and fires.

- The device should not be switched on again less than 5 s after it was switched off. Frequent activation/deactivation of the power supply may impede the normal function of the device.

NETWORK UND MAINS CABLE

- The device must not be touched with wet hands.
- Mains cables must be routed in such a way as to protect them from kinking, sharp edges, chemicals and sources of high heat. Do not place heavy objects on top of the mains cable. A damaged mains cable poses a hazard of electrocution and a fire hazard.
- Pull the mains plug on the plug body only. Never pull it by the cable.
- The device must not be moved as long as it is connected to a power socket.
- Use only the mains cable provided for this device. A damaged or loose mains cable or a damaged power socket must not be used.
- Any connected aerial cables and the mains cable must be unplugged during a lightning storm. An electrical overload due to lightning strike can damage the device via the aerial cable and the mains cable.

VENTILATION AND HIGH TEMPERATURES



- The device must always be well ventilated. A space of at least 20 cm on both sides and of 15 cm on the back of the device must always be maintained to ensure optimal air circulation.
- Excessive heat and insufficient ventilation can result in the premature failure of some electric components and may pose a fire hazard.
- The air vents must be unobstructed at all times.
- Do not touch the device while it is running or just after it has been switched off, as it can be very hot.
- Do not insert any foreign objects into the air vents!

REMOTE CONTROL BATTERIES

- Only the battery type stated and described in this manual must be used. Any improper use of the batteries or the use of unapproved battery types may result in an explosion!
- Incorrectly inserted batteries can leak, corrode, or explode.
- Batteries must only ever be replaced with the same battery type. Do not mix depleted with fresh batteries or with different battery types.
- Do not expose the batteries to direct sunlight, heat, humidity or moisture for prolonged periods of time. They must not be placed in a microwave oven or a high-pressure container as this would pose a fire or explosion hazard!
- Never dispose of batteries in fire and never attempt to heat, recharge, dismantle or break open a battery.
- Applicable disposal regulations must be complied with.
- Depleted batteries must never be disposed of in household waste as they contain toxic materials that are harmful to the environment.
- Remove the batteries from the housing if you will not be using the product for an extended period of time. In case of battery leakage, the battery compartment must be wiped clean with a cloth.
- Please do not use alkaline batteries, standard (carbon zinc) batteries or rechargeable (NiCd, NiMH, etc.) batteries.
- Batteries must always be stored out of the reach of children. Batteries must never be left lying around unattended, as they could be swallowed by children or pets. Batteries can cause suffocation when swallowed. A swallowed battery can additionally cause severe internal injuries or death.

FIRST AID

- Battery fluid may cause blindness if it comes into contact with the eyes. Rinse the eyes thoroughly with clean water immediately. Avoid rubbing. Seek medical attention immediately.
- Leaked battery fluid poses an injury hazard when it comes in contact with clothing or skin. Rinse the affected areas thoroughly with clean water.

GROUNDING OF THE HOUSE AERIAL

- Where a house aerial is to be used, the aerial system must be appropriately protected against overvoltage and static discharge.

VOLUME

- Loud music and noise can cause irreparable damage to hearing. Extreme volumes should be avoided, especially during long-term exposure and when using headphones.
- Reduce the volume immediately or avoid using headphones for a while if you experience tinnitus or pain.

WARNINGS REGARDING THIS LASER PRODUCT

Attention

- This device comes with a laser module. Do not disassemble or modify the device in any way. Doing so may pose injury hazards. Emitting laser radiation may pose a serious health risk.
- Never look directly into the lens while the device is operational. Never look directly into the emitted light beam! Doing so may cause severe damage to your eyes or permanent blindness!
- RG2: Never look directly into the emitted light beam!
IEC 62471-5: 2015
CLASS 1 Laser PRODUCT
 $\lambda = 459-471 \text{ nm}/519-531 \text{ nm}/635-651 \text{ nm}$
- Any operation not described in this manual or any alterations made to the device may result in hazardous radiation exposure.
- Eye protection with an optical density of 4 or more (wavelength 459-651 nm) must be worn if this unit requires repair.

**CLASS 1
LASER PRODUCT**

GENERAL INFORMATION

- New products and materials may release chemicals into the air through evaporation. For the initial first few hours of operation, the device can therefore generate some odor. This is caused by some of the device components heating up for the first time. All materials used fully comply with environmental requirements and regulations. The vapors responsible for the odor will diminish over time. We recommend running the machine in a well ventilated environment for some time before its actual initial use.
- All data, including personal information, may be changed or deleted due to incorrect or accidental operation, static discharge, accidents, malfunctions, repairs and other actions. Leica does not accept liability for direct or consequential damage due to the manipulation or destruction of data and personal information.

CARE AND STORAGE

- Do not touch the device while it is running or just after it has been switched off, as it can be very hot.
- Do not wipe down the device with oil, as it could corrode surfaces or damage the coating.
- Prolonged direct contact with rubber or ethylene products can contaminate this device.
- The lens must not be touched directly or wiped with a cleaning cloth. Use a dust blower to remove dust from the lens. Grease, dirt and fingerprints must be carefully cleaned off by a professional using an optical cleaning cloth, lens paper, or professional cleaning solutions. Otherwise the optical film on the lens can be destroyed and result in a negative impact on the image quality.
- The device must always be switched off and the mains cable must be disconnected before cleaning.
- The device and the remote control should always be cleaned using a soft, moist, clean, naturally dyed cloth. Please do not use any chemicals.
- The surfaces or glass components of the device can be damaged or even destroyed if the device is exposed to insect repellents, solvents, or other volatile substances.

- During cleaning, no water or other liquids must be sprayed or poured directly onto the device. Doing so would cause severe damage.
- The mains plug can be cleaned regularly with a dry cloth.
- The device consumes power as long as it is plugged into a power socket, including in standby mode. The mains plug and all connected aerial cables must be unplugged if the device will be left unattended for an extended period of time.
- The mains plug is used as a disconnect device. It must be easily accessible at all times.

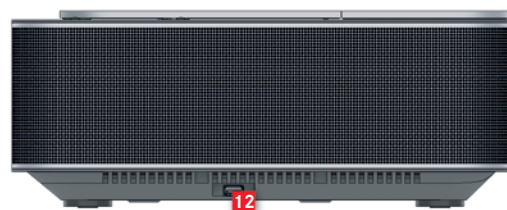
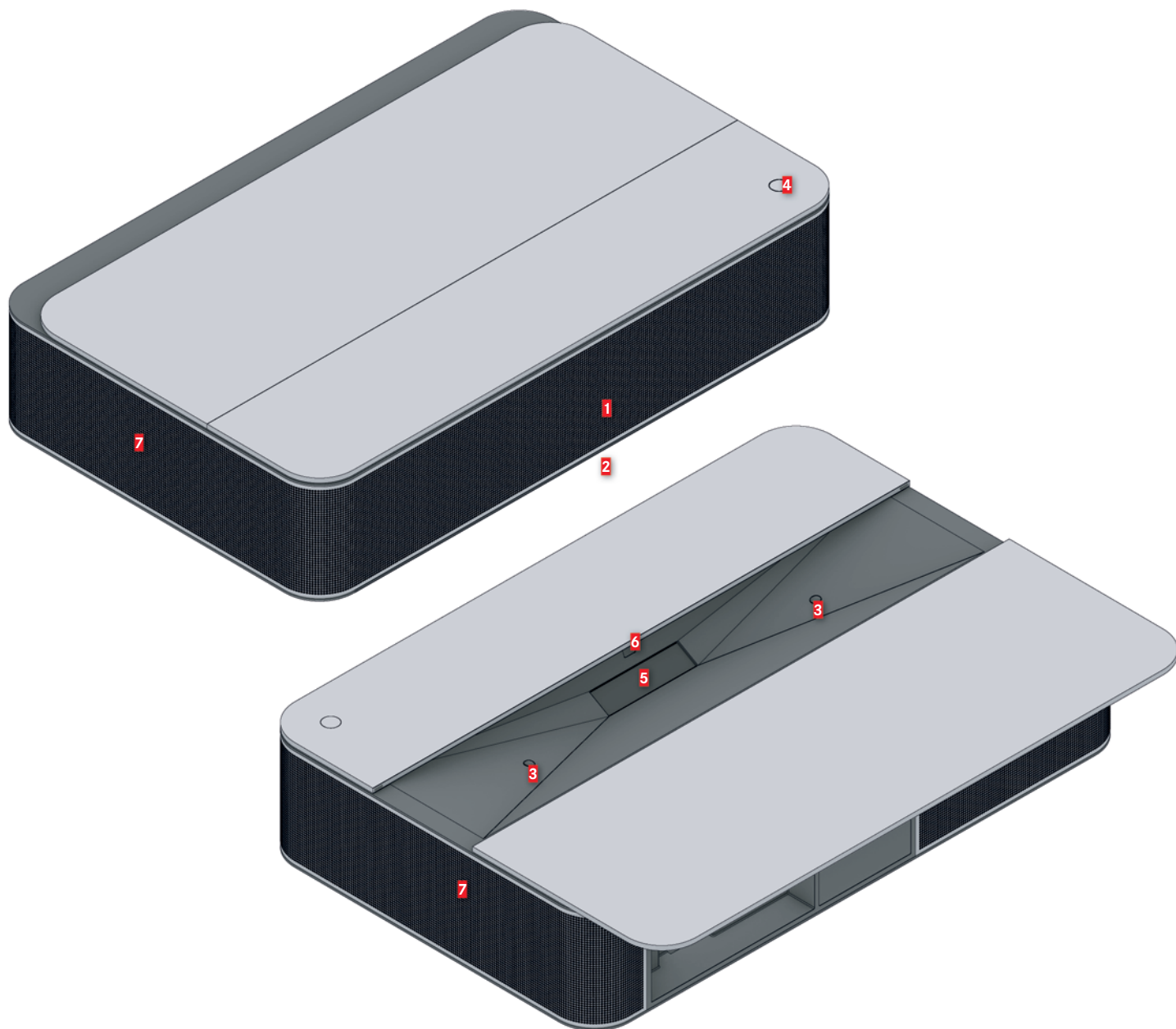
MAINTENANCE AND REPAIR

- The housing must not be opened to avoid the hazard of electrocution. The device does not contain any parts the user can maintain autonomously. Repairs must only be carried out by authorized workshops.

WARRANTY

In addition to your statutory warranty rights regarding your retailer, you will receive an additional Leica product warranty valid from the date of purchase from an authorized Leica retailer. Previously, the product warranty was included in the packaging with the product. As a new service, the product warranty will from now on only be available online. You will be able to review the warranty conditions for your product at any time, without having to search for the document. Please note that this new policy applies only for products that are no longer delivered with a hardcopy product warranty included in the delivery. Any products still delivered with the warranty document remain governed exclusively by that document. For more information regarding the warranty scope, warranty services, and limitations, please visit: <https://warranty.leica-camera.com>

PART DESIGNATIONS



1 Status LED

2 Remote control receiver

3 Eye protection sensor

4 Main switch

Attention

The cover opens/closes automatically when powering On or Off. The movement of the cover must not be impeded by objects or fingers, etc. Otherwise there could be damage to the device or personal injury.

5 Lens with laser

Attention

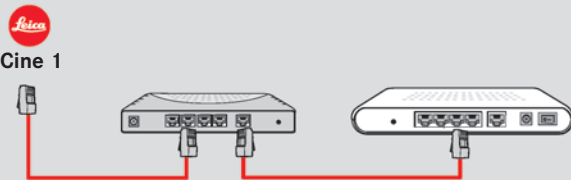
Never look directly into the lens while the device is operational. Never look directly into the emitted light beam! Doing so may cause severe damage to your eyes or permanent blindness!

6 Foreign body sensor

7 Ventilation grill

8 Service port

9 Ethernet port



Note

- A router is needed to establish an Internet connection.

10 Aerial port

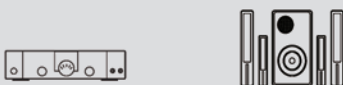
Suitable for aerial cables (75Ω) for VHF/UHF aeriels



11 HDMI ports for external devices

12 USB port

13 Audio output



14 Serial communication port (RS232)

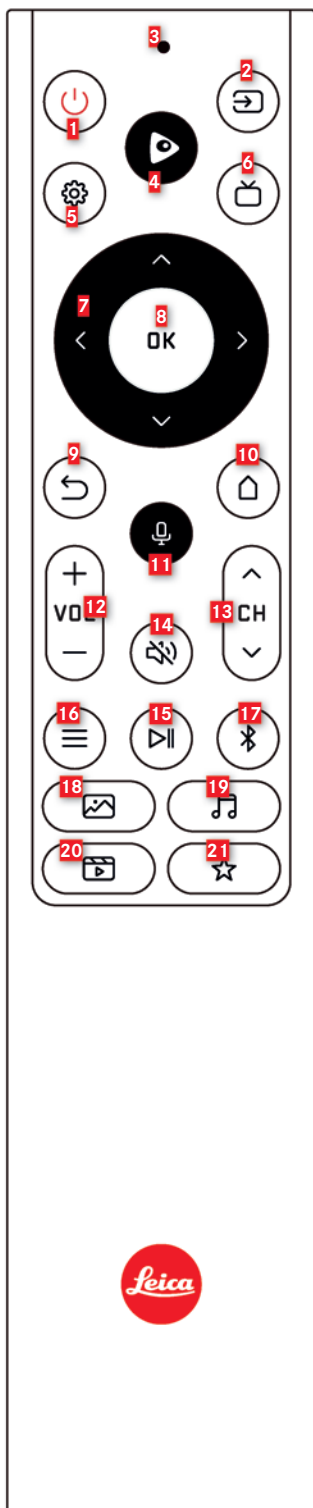
15 Wi-Fi module



16 Power connector

* External devices, as well as the accessory needed for their connection like audio, video, or Ethernet cables are not included in the scope of delivery (illustration is only symbolic).

REMOTE CONTROL



1 **button**
Laser TV On/Off

2 **button**
Input source selection

3 **Microphone for voice control**
Note
• This function is only supported in some countries or regions

4 **Juhaokan Quick Access > AI Content Recognition**

5 **Access the settings**

6 **Live TV**
Return to Live TV
Enter to Live tab in launcher
Display the Electronic Program Guide (if supported)*

7 **(directional buttons)**
– Menu navigation
– System settings adjustment

8 **OK button**
Confirm selection

9 **Return to the previous place in the menu or app**
Show menu

10 **Display the Home screen**

11 **Voice Command**

12 **Volume**

13 **CH button**
Change channel

14 **button**
Mute On/Off

15 **Media content control button**

16 **Press to enter Menu**

17 **Quick Access button: Bluetooth Speaker Mode**

18 **Quick access button: Picture Mode**

19 **Quick access button: Sound Mode**

20 **Quick access button: Media Centre**

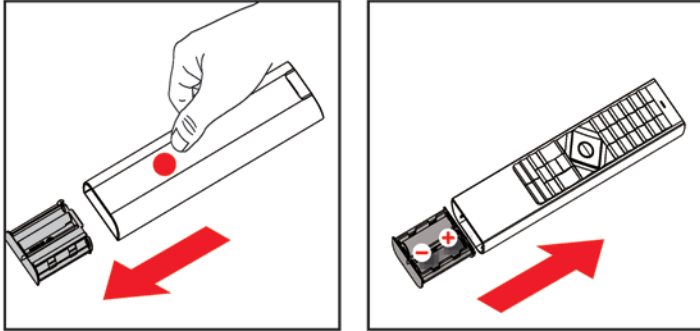
21 **Quick access button: Favorites**

* Pressing the button in different scenarios will have different responses.

CHANGING THE BATTERIES

Please note the information provided in the section “Safety Remarks” for the handling of batteries.

- ▶ Press the marking on the underside
 - The battery compartment unlocks.
- ▶ Slide open the battery compartment cover as shown in the illustration
- ▶ Insert two AAA batteries
 - Ensure correct battery polarity.
- ▶ Slide closed the battery compartment cover as shown in the illustration





Note

- The remote control should not be used if it is very warm or even hot.

REMOTE CONTROL WORKING RANGE

The remote control operates correctly up to a distance of 8 m from the Laser TV. At a distance of 6 m, the remote control can be tilted to an angle of $\pm 30^\circ$ (horizontal) or $\pm 15^\circ$ (vertical). This angle is covered via infrared if the remote control was not paired.

PAIRING THE REMOTE CONTROL

- ▶ Switch on the device
- ▶ Keep the remote control within a 3 m radius of the device
- ▶ Press and hold the  button and the  button at the same time for at least 3 s
 - The pairing process will begin.
 - A message will appear in the display area to indicate whether pairing was successful or unsuccessful.

Notes

- In case of an unknown error in the remote control, the reason could be a connection error. A new pairing attempt may resolve the cause of the error.
- In case of an unknown error in the remote control, the error may sometimes be resolved by removing the batteries and then pressing and holding any button for 1–2 s.
- Pairing will not be successful if the Laser TV is in standby mode.

BEFORE INITIAL USE

New products and materials may release chemicals into the air through evaporation. For the initial first few hours of operation, the device can therefore generate some odor. This is caused by some of the device components heating up for the first time. All materials used fully comply with environmental requirements and regulations. The vapors responsible for the odor will diminish over time.

We recommend running the machine in a well ventilated environment for some time before its actual initial use.

MOUNTING THE SCREEN

Check the user manual of the product for information.

SETTING UP THE DEVICE

- This device should always be transported by two people.
- When handling the device, it must always be assured that the lens is protected.
- We recommend plugging in all cables on the back of the device before placing it in its final position.
- Ensure that all cables are plugged in correctly and in their correct ports.
- Loose cable connections can impact negatively on the image quality.

PICTURE GEOMETRY

Follow the steps below to align the picture of the Laser TV on the screen. Afterwards, you can still apply a geometric correction as a final tweak. The recommended sequence is as follows:

1. Align the lower edge of the image horizontally
2. Align the lower edge of the picture on the screen
3. Align the lower edge of the image to the width of the screen
4. Align the upper right corner
5. Align the upper left corner
6. Align the top edge of the image to the width of the screen

Attention

Never look directly into the lens while the device is operational. Never look directly into the emitted light beam! Doing so may cause severe damage to your eyes or permanent blindness!

Notes

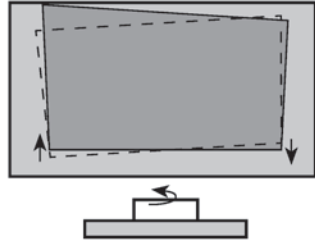
- The dotted line depicts the position before alignment, the dark area the position after alignment.
- Use the wrench supplied for turning the adjustment feet in or out.
- We recommend turning the adjustment feet all the way in before beginning the alignment.

STEP 1

ALIGN THE LOWER EDGE OF THE IMAGE HORIZONTALLY

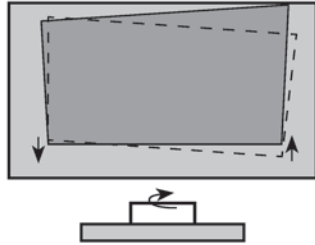
The lower edge of the image is lower on the left and higher on the right

- ▶ Turn the device anti-clockwise



The lower edge of the image is higher on the left and lower on the right

- ▶ Turn the device clockwise



STEP 2

ALIGN THE LOWER EDGE OF THE PICTURE ON THE SCREEN

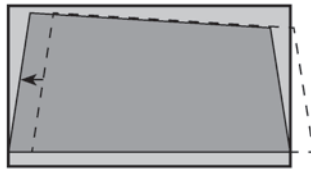
The image is shifted to the left

- ▶ Place the device slightly more to the right



The image is shifted to the right

- ▶ Place the device slightly more to the left



Note

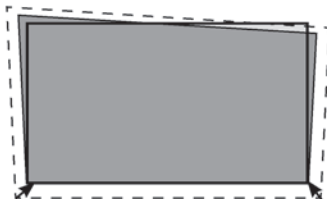
- The lower edge of the image should always remain parallel to the screen.

STEP 3

ALIGN THE LOWER EDGE OF THE IMAGE TO THE WIDTH OF THE SCREEN

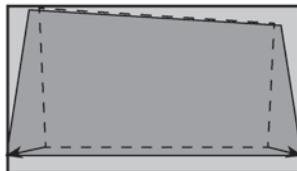
The lower edge of the image is too wide

- ▶ Place the device closer to the screen



The lower edge of the image is too narrow

- ▶ Place the device further away from the screen



Note

- The lower edge of the image should always remain parallel to the screen.

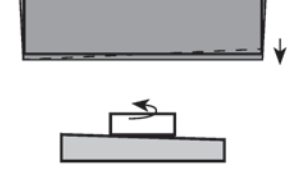
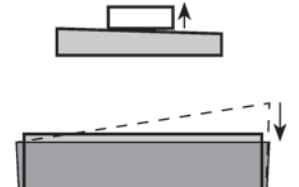
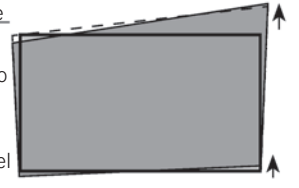
STEP 4

ALIGN THE UPPER RIGHT CORNER

You may have to repeat the following steps several times when aligning the upper edge of the image, until both the upper and the lower edge of the image are parallel to the screen.

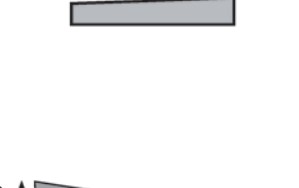
The upper edge of the image is too high on the right

- ▶ Turn the two levelling feet out on the right to the same height
- ▶ Turn the device anti-clockwise, until the lower edge of the image is once again parallel to the screen
- ▶ Repeat the process as necessary



The upper edge of the image is too low on the right

- ▶ Turn the two levelling feet in on the right to the same height
- ▶ Turn the device clockwise, until the lower edge of the image is once again parallel to the screen
- ▶ Repeat the process as necessary

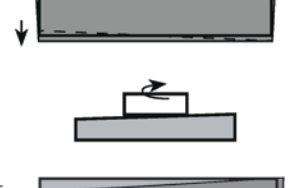
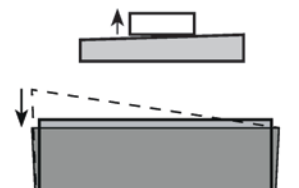
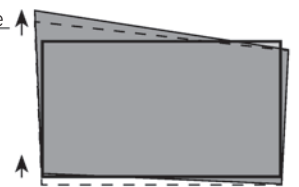


STEP 5

ALIGN THE UPPER LEFT CORNER

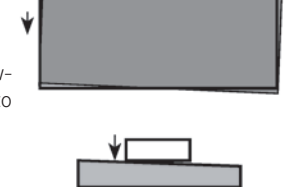
The upper edge of the image is too high on the left

- ▶ Turn the two levelling feet out on the left to the same height
- ▶ Turn the device clockwise, until the lower edge of the image is once again parallel to the screen
- ▶ Repeat the process as necessary



The upper edge of the image is too low on the left

- ▶ Turn the two levelling feet in on the left to the same height
- ▶ Turn the device anti-clockwise, until the lower edge of the image is once again parallel to the screen
- ▶ Repeat the process as necessary



STEP 6

ALIGN THE TOP EDGE OF THE IMAGE TO THE WIDTH OF THE SCREEN

The top edge of the image is too wide

- ▶ Turn the two front levelling feet out a little, until the lateral edges of the image are parallel to the edges of the screen



The top edge of the image is too narrow

- ▶ Turn the two rear levelling feet out a little, until the lateral edges of the image are parallel to the edges of the screen
- ▶ Place the device slightly further away from the screen to enlarge the image to the width of the screen



Should the two rear levelling feet have reached their max. height and cannot be turned out more, then you can try turning in the two front levelling feet instead.

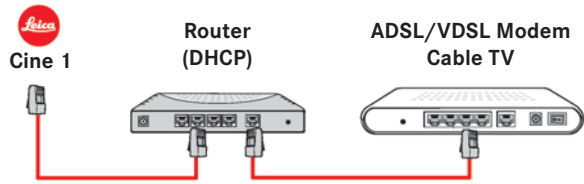


MEDIA SOURCES

NETWORK

CABLE CONNECTION (LAN)

- ▶ Connect the LAN port on the rear of the device with an external modem or router via a LAN cable (Ethernet Cat 5)



WIRELESS CONNECTION (WLAN)

The Laser TV can be connected wirelessly to a WLAN network. This will require a Wi-Fi router or a wireless modem.

- ▶ Access the setup assistant in the device menu
- ▶ Follow the instructions provided



Notes

- Using the device with wireless networks requires the activation of the integrated WLAN module. External USB network adapters are not supported.
- Connecting to a wireless network is a lot easier if the router used supports DHCP.
- The device supports the following security standards: WEP, WPA, WPA2.
- For optimal reception, the distance between router and the Laser TV should not exceed 10m.

USB CONNECTION

When connecting an external drive or a USB hub, the power supply of the connected device should always be used. Exceeding the total power usage can result in damage. The max. permissible power usage of the USB 1.1 and USB 2.0 devices is 500mA. The USB port supports a max. voltage of 5V.

Note

- Some non-standard high-capacity drives may cause the Laser TV to reboot or self-lock if their surge current is greater than or equal to 1 A. This device does not support these types of external drives.

MENU SETTINGS

PROJECTION MODE

Depending on the positioning of the Laser TV relative to the screen, the image may have to be flipped or mirrored.

GEOMETRIC CORRECTION

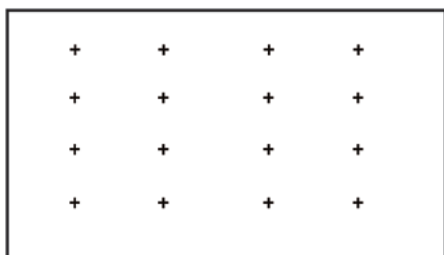
AUTOMATIC

Automatic geometric correction is possible if the Laser TV and your mobile device are connected to the same WLAN network.

- ▶ Position the device
- ▶ You may have to adjust the height of the levelling feet to fit the entire projected image into the screen area (see p. 23)



- ▶ Access the menu function for automatic geometric correction
- ▶ Confirm automatic correction
 - All previous data will be deleted.
- ▶ Ensure that the mobile device and the Laser TV are connected to the same network
- ▶ Select “Next” in the menu
- ▶ Scan the QR code on the screen with the mobile device
 - Automatic geometric correction begins.
 - An alignment grid appears on the screen.



- ▶ Tap “+” on the mobile device to record an image of the entire image area
 - Best results are achieved with landscape recordings from a distance of approx. 3 m.
- ▶ Tap “Upload” on the mobile device
 - The correction is executed.

MANUAL

During this correction process, points are moved using the remote control to align the projected image exactly with the screen.

- ▶ Use the directional buttons of the remote control to select the desired point
- ▶ Press the **OK** button
- ▶ Use the directional buttons to move the selected focus point
 - Press and hold: quick change.
 - Press and release: fine setting.
- ▶ Press the **OK** button
 - The setting is saved and you can proceed with the next point.

Returning to factory setting

- ▶ Select the “Reset” button

Note

- Manual geometric correction is only available in specific device models and countries/regions

EYE PROTECTION MODE

Attention

Never look directly into the lens while the device is operational. Never look directly into the emitted light beam! Doing so may cause severe damage to your eyes or permanent blindness!

The eye protection mode prevents corneal damage due to accidental viewing of the light beam. The light output will be temporarily deactivated after a countdown of 5 s if anyone gets too close to the projector while it is running. We highly recommend keeping the eye protection mode activated at all times!


MENU OVERVIEW

Additional settings, including the network connection, can be configured under the menu item “Laser TV settings”.

Language	Menu language
TV Mode	Available selections: “Home Mode” or “Store Mode”
Projection Mode	Various modes, depending on the placement of the Laser TV
Wireless Network	Where an Ethernet connection is not possible or wanted, a WLAN connection can be set up under this menu item. A network can be added from the displayed list of networks, or a hidden network can be added.
Country	The country, where the device will be used
Time zone	The time zone, in which the device will be used
Auto Geometric Correction	Automatic geometric correction via app will be executed, and any existing correction data will be overwritten
End User License Agreement	The use of this device is governed by the end user license agreement. All smart functions of the device will remain deactivated if the end user license agreement is not accepted. All smart functions can be activated and deactivated individually. The relevant data protection regulations and provisions are deemed accepted, once all smart functions are activated.
Improved Display	The picture and sound mode can be automatically adapted to the displayed content (provided they are correctly identified by the automated content recognition service). This function is only available in specific device models and countries/regions
Setup Screen for TV Account	Linking the Laser TV to a TV account.

FAQ

In many cases, issues with the Laser TV can be rectified with a simple restart of the device. The following tips might be helpful if the problem persists after a restart.

Problem	Possible causes to check	Troubleshooting suggestions
Display		
It takes a few seconds for the image to be displayed after the device is switched on	The TV initializes and searches for information about earlier settings	Wait until the device is ready
The light output of the projector is too low and the operating indicator flashes red 5x	The foreign body sensor has detected an object	Remove the object
	The foreign body sensor is dirty	Clean the foreign body sensor
Sound and Display		
No sound or no picture	Laser TV is disconnected from power supply	Ensure that the mains cable is connected correctly to a power socket. The device is connected to mains power if the LED lights up.
	Laser TV is in standby mode	Press the  button of the remote control
No picture/no sound after connection of an external source	Connection problem	Check the connection (correct output port on the source, correct input port on the Laser TV)
Picture is normal, but there is no sound	Volume is set too low	Check the volume setting
	Sound output is deactivated	Check, whether the device is set to mute
Sound is normal, but there is no picture, or only a black and white picture	Software or system crash	Disconnect the mains cable from the power socket and plug it in again after 60s
	Incorrect color setting	Check, whether the color setting is set to 50 or higher
	No active reception	Try various TV channels
Sound and/or picture are distorted or appear wavy	Interference from an electric device nearby	Switch off all nearby electric devices or position them at a greater distance to the Laser TV
	Laser TV is disconnected from power supply	Try connecting to another power socket
Sound and picture are blurred or fail intermittently	No/bad reception	When using an external aerial: check the direction, position and connection of the aerial
		Adjust the alignment of the aerial, reset the channel, or fine-tune the channel
The plastic housing is emitting a clicking sound	Temperature changes during operation may cause the device to slightly expand or shrink, which may cause a clicking sound	That is completely normal and the device is in perfect working order
The remote control is not functioning	Laser TV is disconnected from power supply	Ensure that the mains cable is connected correctly to a power socket. The device is connected to mains power if the LED lights up.
	No batteries inserted or batteries depleted	Replace the batteries
	The batteries are incorrectly inserted	Check polarity and insert the batteries correctly

TECHNICAL DATA

Model Name	Leica Cine 1 - 100	Leica Cine 1 - 120
Active picture diagonal	100"	120"
Image resolution	3840 x 2160px (4K)	3840 x 2160px (4K)
Audio output strength	2 x 25W	2 x 25W
Power supply	120-240V ~ 50/60Hz	120-240V ~ 50/60Hz
Energy consumption		
Normal operation	max. 300W	max. 300W
Energy consumption in standby mode	≤0.5W	≤0.5W
Receiver system frequencies	PAL (D/K, B/G, I), DVB-C (USB-CAM), NTSC(M), DTMB-TH PAL, NTSC	PAL (D/K, B/G, I), DVB-C (USB-CAM), NTSC(M), DTMB-TH PAL, NTSC
Receiving channels	Broadcast TV Channel C01 ~ C57 CATV Additional channel Z01 ~ Z38	Broadcast TV Channel C01 ~ C57 CATV Additional channel Z01 ~ Z38
Wi-Fi 6	802.11 AX 2.4 / 5.0 GHz	802.11 AX 2.4 / 5.0 GHz
Bluetooth	BT 5.0	BT 5.0
Antenna Impedance	75Ω	75Ω
Operating conditions	Temperature: 5°C-40°C Humidity: 20%-80% RH Atmospheric pressure: 86 kPa-106 kPa	Temperature: 5°C-40°C Humidity: 20%-80% RH Atmospheric pressure: 86 kPa-106 kPa
Weight	15.1 kg	15.1 kg
Dimensions (WxDxH)	600 x 378 x 149 mm	600 x 378 x 149 mm

*All data above are subject to change or errors.

Format	Video decoding				Audio decoding
	Type	Resolution (max)	Bit rate (max)	Frame rate (max)	
.avi	Xvid	1920 x 1080	40Mbps	60fps	Dolby Audio, MPEG 1 (Layer1, 2, 3)
.avi .mpg .ts	MPEG2	1920 x 1080	80Mbps	60fps	Dolby Audio, MPEG 1 (Layer1, 2, 3)
.ts .mkv .avi .mp4 .flv	H.264	4096 x 2160	135Mbps	60fps	Dolby Audio, AAC, MPEG 1 (Layer1, 2, 3)
.avi .mkv .mov	MPEG4	1920 x 1080	40Mbps	60fps	Dolby Audio, MPEG 1 (Layer1, 2, 3)
.ts .mkv .mp4	H.265	4096 x 2160	100Mbps	60fps	Dolby Audio, MPEG 1 (Layer1, 2, 3)

Note:

- Dolby Audio: Supports Dolby Digital, Dolby Digital Plus, Dolby AC4 .
- Because the video production tools are not unified, this machine cannot guarantee to support all the formats listed above.

Signal formats supported by the HDMI port	
RGB/60Hz	640 x 480, 800 x 600, 1024 x 768
YUV/50Hz	576i, 576p, 720p, 1080i, 1080p
YUV/60Hz	480i, 480p, 720p, 1080i, 1080p
YUV/24Hz 25Hz 30Hz	3840 x 2160, 4096 x 2160
YUV420/50Hz 60Hz	3840 x 2160, 4096 x 2160
YUV444/50Hz 60Hz	3840 x 2160, 4096 x 2160
RGB444/50Hz 60Hz	3840 x 2160, 4096 x 2160

This machine supports HDMI2.0 and HDMI1.4, the default is HDMI1.4. HDMI1.4 Only some of the above signal formats are supported, while HDMI 2.0 can support all of the above signal formats. To use HDMI 2.0, go to the hdmi Under the channel, press the menu key and select hdmi version is HDMI2.0 or HDMI enhanced.

LEICA CUSTOMER CARE

Please contact the Customer Care department of Leica Camera AG for the maintenance of your Leica equipment and for help and advice regarding Leica products and how to order them. You can also contact the Customer Care department or the repair service provided by your regional Leica subsidiary for repairs or warranty claims.

Leica Camera Trading (Shanghai) Co., Ltd.
Address: Room 603, Xinmao Building, No. 233, Taicang Road, Huangpu District, Shanghai
Leica Camera Customer Service Hotline: 400-993-3320
Working hours: 9:00-21:00 (Monday to Sunday)
Email: customercare.cn@leica-camera.com

<https://leica-camera.cn>

YOUR NATIONAL REPRESENTATIVE

You will find the Customer Care department responsible for your locality on our homepage:

<https://leica-camera.cn/>

Follow WeChat official account to register as a Leica member and enjoy exclusive Leica services





DAS WESENTLICHE.

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