

DENON

通用音频/视频播放器

DBP-4010UD

操作说明书

GUI 图形用户界面

请结合使用本说明书与图形用户界面画面上显示的操作指南。

图形用户界面 (GUI) 菜单操作 (☞ 第22页)

※ 本说明书中用于操作说明的按键图示为遥控器的按键图示。
也可使用本机前面板上相同名称的按键操作本机。



注 意
触电危险，
请勿打开。



警告： 触电危险，请勿打开。为避免触电或火灾危险，请勿将本产品放置在有雨水或潮湿的地方。

注意： 为防电击，请勿打开机盖(或后盖)。本机内部无使用者可以维修的部件。请委托有资格的技术人员进行维修。



等边三角形中有箭头闪电标号的图形表示警告使用者在产品内有非绝缘的“危险电压”，可能会对人體造成很大的电击危险。



等边三角形中有感叹号的图形表示警告使用者该设备在操作与维护(维修)方面应严格按照所附设备说明书。

警告： 为防止火灾或电击，请勿将本机暴露于雨中或潮湿的处所。

注意： 为了完全切断本机的电源，请从墙上插座中拔出插头。电源插头用于完全中断机器的电源供应，必须置于使用者容易接近的地方。

注意：

- 不能用报纸、桌布、窗帘等物品覆盖通风口，以免妨碍通风。
- 不能在设备上放置明火火源，如点亮的蜡烛等。
- 应注意电池处置的环保问题。
- 设备不能暴露在滴水或溅水的环境下使用。
- 不能在设备上放置注有液体的物品(如花瓶)。

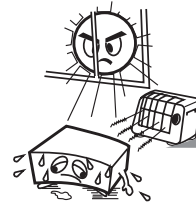
CLASS 1 LASER PRODUCT

1 级 激光 产品

注：

本DVD播放机使用半导体辐射，为使您正常欣赏音乐，我们建议在5°C (41°F) -35°C (95°F) 室温下使用本机。

使用注意事项



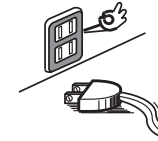
- 防止高温。
装于机架时应允许充分散热。



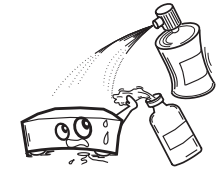
- 勿将本机放置于湿度很高或多尘的位置。



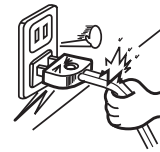
- 勿将杂物掉入机内。



- 长时间不使用本机时须将插头拔离电源插座。



- 避免在本机附近喷洒杀虫剂，也勿用苯、稀释剂抹拭机箱。

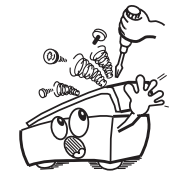


- 留意电源线。
从插座拔出插头时应抓住插头将其拔出。



*(备有通风孔的机壳)

- 勿堵塞机壳的通风孔。



- 勿打开或随意改装本机。

「根据电子信息产品污染控制管理办法的有毒·有害物质或元素的标识表」

零部件名称	对象零部件	有毒有害物质或元素						备注
		铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr6+)	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
电路板	电路板组件, 安装·插入零部件, 电路板(不包括特定电子零部件)	×	○	×	○	○	○	
机芯单元	HDD、DVD、CD等的机芯·激光组件	×	○	○	○	○	○	
机壳	顶盖, 底盖, 底壳, 框架, 垫片, 螺丝等(金属, 塑胶), (包含的接合材料)	×	○	○	○	○	○	
显示器	FL, LCD显示器	×	○	○	○	○	○	
特定电子零部件	变压器, 插入物, 电源插座, 电源用大型电解质电容器等电子零部件, 机内连接线	×	○	○	○	○	○	
附件	遥控器/AC适配器、电源线、RCA信号线等附件, 包装	×	○	○	○	○	○	

备注:
 ○: 在该零部件的所有均质材料中的有毒有害物质的含量不超过在SJ/T11363-2006标准规定的限量要求
 ×: 在该零部件中至少一种均质材料中的有毒有害物质的含量超过在SJ/T11363-2006标准规定的限量要求(×判定: 包括EU RoHS的豁免项目)

此标志是根据2006/2/28颁布的「电子信息产品污染控制管理办法」, 以及「电子信息产品污染控制标识要求」, 适用于在中国销售的电子信息产品的环保使用期限。



只要遵守此产品相关的安全和使用注意事项, 在从生产日期起计算的此年限内, 产品中的有害物质不会往外泄漏, 或者引起突然变异而给环境污染, 人体或财产带来重大影响。

另外, 包装在一起的电池等消耗品的环保期限的技术寿命为5年。

产品使用终结需废弃时, 请遵守当地的电子信息产品回收·再利用相关的法律·规定。

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特点

通用蓝光光碟播放机, 可以播放超级音频CD和DVD-Audio格式

☞ 第3、4页 “可播放的媒体”

由于融合了DENON LINK 4th(天龙第四代链路)和HDMI传输技术, 可实现无抖动传输

除了第三代实现的对超级音频CD的多声道数字平衡传输外, DENON LINK 4th(天龙第四代链路)还提供了数字信号传输过程中的抖动控制功能。

☞ 第17页 “采用DENON LINK(天龙链路)连接①进行无抖动连接”

配备Dolby TrueHD(杜比TrueHD)、DTS-HD主音频解码器

兼容Linear PCM 192 kHz(线性PCM 192 kHz)(BD音频格式之一)和多声道输出(6声道)。

☞ 第16页 “连接至带模拟多声道音频输入端子的设备”

所有声道均采用“Advanced AL24 Processing(高级仿真波形再生技术)”以增强HD音频性能

画面渲染细致, 失真极小; 声音定位精确, 低音圆润。

所有声道均可更真实地播放原始声音。

图形用户界面(GUI)具有绝佳的可操作性和可视性

☞ 第22页 “图形用户界面(GUI)菜单操作”

既有的HDMI控制

☞ 第47页 “HDMI控制功能”

采用最新开发的“S. V. H. Mechanism”转盘系统, 具备低重心、高抗震性、高静音性和高精度的特点

采用6分区结构以消除相互间的电磁干扰

序言

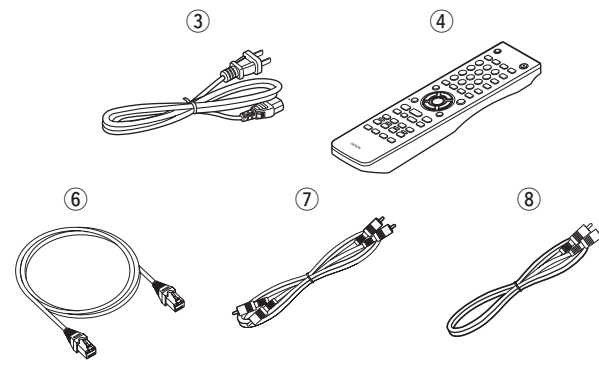
感谢您选购本款DENON产品。为确保正确操作, 使用该产品前请仔细阅读操作说明书。

阅读之后, 请务必妥善保管以备将来参考。

附件

请检查并确认本产品附带下列部件。

① 操作说明书.....	1
② 维修站列表.....	1
③ 电源线(电线长度: 约2.0m).....	1
④ 遥控器(RC-1141).....	1
⑤ R6/AA电池.....	2
⑥ DENON LINK(天龙链路)电缆(电线长度: 约1.5m).....	1
⑦ 音频电缆(电线长度: 约1.5m).....	1
⑧ 视频电缆(电线长度: 约1.5m).....	1

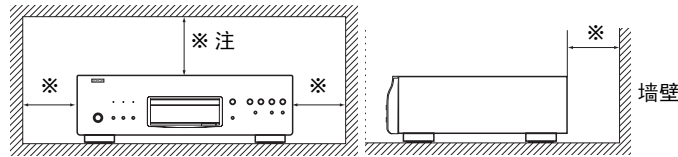


操作注意事项

- 开启电源开关前**
 请再次检查所有连接是否正确，连接电缆是否存在问题。
- 即使将本机设为候用模式，某些电路中仍通有电源。当长时间旅行或离家时，请务必将电源线从电源插座上拔下。
- 图像暂留(图像残影)**
 请勿在电视机屏幕上长时间显示光碟菜单和DBP-4010UD菜单等静止图像。否则将导致屏幕上形成图像暂留(图像残影)。
- 关于冷凝**
 如果将DBP-4010UD播放机从寒冷处移至温暖处，或者安装在采用加热器等方式迅速升温的房间中，则播放机内部的零部件(运转部件和透镜)上可能会形成冷凝(结露)。如果在形成冷凝的情况下使用，DBP-4010UD将无法正常运转并且可能会导致损坏。如果DBP-4010UD播放机上形成冷凝，请将播放机在电源关闭的情况下搁置1~2小时后再使用。
- 使用移动电话的注意事项**
 在本机附近使用移动电话可能会导致噪音。如果发生这种情况，请远离本机使用移动电话。
- 移动本机**
 请务必取出光碟、关闭电源并将电源线从电源插座上拔下。然后再断开接至其它系统设备的连接电缆，才可移动本机。
- 爱护本机**
 - 请用软布擦拭和清洁机身及控制面板。
 - 使用化学清洁剂时，请遵守使用说明。
 - 苯、油漆稀释剂、其它有机溶剂以及杀虫剂等若与本机接触，将导致本机材质发生变化和褪色，因此请勿使用。
- 对安装场所进行彻底通风**
 如果本机长时间搁置于充满香烟等产生的烟雾的房间内，光学头的表面将变脏，从而导致无法正常读取信号。
- 请注意，为便于解说，本操作说明书中的图示可能与播放机的实际情况有所不同。

安装注意事项

注：
 为确保适当的散热，请勿将本机安装在狭小的空间内，例如书柜或类似的封闭空间。



请勿将DBP-4010UD放置在放大器或其它产热设备上。

关于媒体

可播放的媒体

光碟

可播放的媒体	可播放的格式/模式	可播放的区域代码	本操作说明书中使用的符号	
BD-Video * 1、* 2		-	包括区域 	
DVD-Audio * 1		-	-	
DVD-Video * 1、* 2		-	包括区域 	
DVD-R、 DVD+R		视频模式、 AVCHD格式	-	
DVD-RW、 DVD+RW	 			
超级音频CD		-	-	
CD		-	-	
CD-R				
CD-RW				

* 1: 由于菜单结构的缘故，可能无法按本说明书中所述来操作BD-Video/DVD-Audio/DVD-Video光碟。

* 2: BD播放机和BD-Video光碟以及DVD播放机和DVD-Video光碟都具有各自的区域代码(为各区域分配的代码)。如果代码不匹配，则无法播放。

注

- 采用BD录制设备或DVD录制设备进行录制时，根据录制条件而定，光碟可能会由于音频和视频中断等原因导致无法读取或正确播放。
- 未经结束处理的DVD-R/-RW/+R/+RW和CD-R/-RW光碟可能无法播放。播放前请对光碟进行结束处理。



以下光碟将无法在本机上播放：

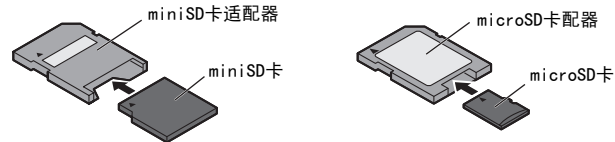
- BD-RE Ver1.0 (带光碟匣的BD光碟)
- 含有已录制的电影、静止图像、音频等文件的BD-ROM/BD-R/BD-RE光碟
- 录制有BDMV/BDAV的BD-R/BD-RE
- HD DVD
- DVD-RAM
- CDV (只能播放音频部分)
- CD-G (只能输出音频信号)
- 非标准型CD (受版权保护的CD等)
- 非正版光碟 (盗版光碟)
- 录制区的直径小于55 mm的光碟
- 单面视频光碟 (VSD) / CVD / 视频CD / 超级视频CD / 互动式光碟 (CD-I) / 相片光碟

SD存储卡

可播放的存储卡	本操作说明书中使用的符号	可播放的文件 (本操作说明书中使用的符号)
SD存储卡 * 1 (8MB~2GB)	SD	MP3 WMA AAC LPCM
SDHC存储卡 * 1 (4GB)		JPEG DivX
miniSD卡 * 2 (8MB~2GB)		<ul style="list-style-type: none"> • 录制用于BD BONUS VIEW (蓝光光碟双影音同步解码) 的数据 • 有关播放文件详情，请参阅“可播放的媒体”中的“文件”部分 (☞ 第4页)。
microSD卡 * 2 (8MB~2GB)		

* 1: 本机支持FAT16文件格式系统的SD存储卡和FAT32文件格式系统的SDHC存储卡。

* 2: 对于miniSD卡和microSD卡，需要适配器。



注

- 本机不支持迷你型SDHC存储卡和微型SDHC存储卡。
- 请在电源处于候用模式时插入或拔下SD存储卡。如果在电源开启时插入SD存储卡，则可能不会读取SD存储卡。
- 用于双影音同步解码功能的SD存储卡必须具有1GB或更大的容量。另外，SD存储卡还必须在DBP-4010UD上进行初始化 (☞ 第31页)。

文件

可播放的文件 (扩展名)	可播放的媒体		文件规格	本操作说明书中使用的符号
	DVD-R/-RW/+R/+RW DVD CD	SD存储卡 SD		
MP3 (.mp3)	○	○	<ul style="list-style-type: none"> • 采样频率: 44.1kHz、48kHz • 比特率: 64kbps~320kbps (不兼容144kbps) • 音频类型: MPEG 1 Audio Layer 3 	MP3
WMA * (.wma)	○	○	<ul style="list-style-type: none"> • 采样频率: 44.1kHz、48kHz • 比特率: 48kbps~192kbps • 音频类型: WMA Version 9 	WMA
AAC * (.m4a)	○	○	<ul style="list-style-type: none"> • 采样频率: 44.1kHz、48kHz • 比特率: 64kbps~192kbps (不兼容可变比特率) • 音频类型: AAC 	AAC
LPCM (.wav)	○	○	<ul style="list-style-type: none"> • 采样频率: 44.1kHz、48kHz • 比特长度: 16比特 • 声道数量: 双声道 	LPCM
JPEG (.jpg/.jpeg)	○	○	<ul style="list-style-type: none"> • 最高分辨率: 4,096×4,096像素 • 最低分辨率: 32×32像素 • 最大文件大小: 12MB 	JPEG
DivX® (.avi/.divx)	○	○	<ul style="list-style-type: none"> • 兼容版本: 最高可兼容DivX®6 • 最大大小: 2GB 	DivX

*: 本机不能播放除DivX®文件以外、在DRM (数字版权管理) 保护下录制的文件。

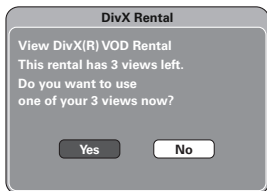
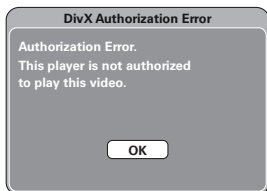


- 根据录制时的条件不同，上述类型的文件也可能无法播放。
- 如果文件名称、标题、艺术家名称或专辑标题中含有菜单画面不支持的字符，则将无法正确显示这些字符。
- 以逐行扫描格式存储的JPEG格式图像无法播放。

关于DivX®视频点播技术(VOD)

- 当从提供DivX®视频点播技术(VOD)服务的官方网站购买或租用DivX®文件时,需要DBP-4010UD注册代码。有关详情,请参阅“DivX®注册”(第29页)。
- 以不同于DBP-4010UD注册代码的代码录制的DivX® VOD文件无法播放。
- 某些DivX® VOD文件的播放次数受到限制。如果您的DivX® VOD文件具有此类限制,则在DivX® VOD显示画面上将显示可播放次数。

如果想要播放文件,请用 键选择“是(是)”,否则请选择“否(否)”。按 键确认所作的选择。



注

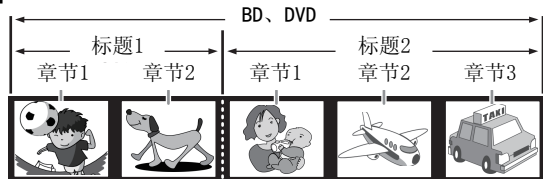
- 关于DIVX视频: DivX®是由DivX公司创建的一种数字视频格式。这是一种经官方认证、用于播放DivX视频的DivX设备。请访问www.divx.com网站,查询有关详细信息以及将文件转换为DivX视频的软件工具。
- 关于DIVX视频点播技术: 为播放DivX视频点播(VOD)内容,必须对DivX Certified®(DivX认证)设备进行注册。若要生成注册代码,请在设备设置菜单中找到DivX VOD(DivX视频点播)部分。请登录vod.divx.com网站并输入生成的代码,以完成注册流程,并了解有关DivX VOD(DivX视频点播)的更多信息。

有关光碟和文件

□ BD-Video、DVD-Video

BD/DVD-Video光碟被划分为若干大的部分(标题)和小的部分(章节)。这些部分均分配有编号,分别称为标题号和章节号。

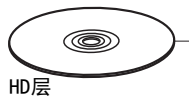
【示例】



□ 超级音频CD

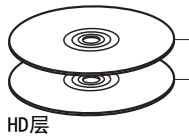
【超级音频CD的类型】

• 单层光碟



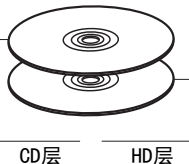
只有一个HD层*的单层超级音频CD。

• 双层光碟



带双HD层*的超级音频CD,能够提供更长的播放时间和高音质。

• 混合式光碟

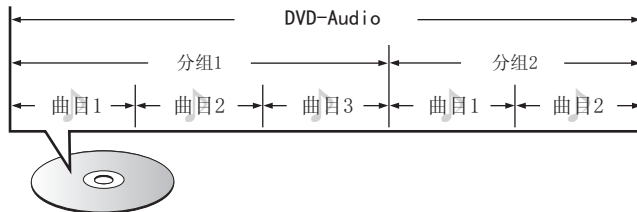


带一个HD层*和一个CD层的双层超级音频CD。CD层的信号可在常规CD播放机上播放。

*: 所有超级音频CD都带一个包含高密度超级音频CD信号的HD(高密度)层。该层包含一个立体声道区、一个多声道区或者同时包含这两个区。

□ DVD-Audio

DVD-Audio光碟被划分为若干大的部分(分组)和小的部分(曲目)。这些部分均分配有编号,分别称为分组号和曲目号。



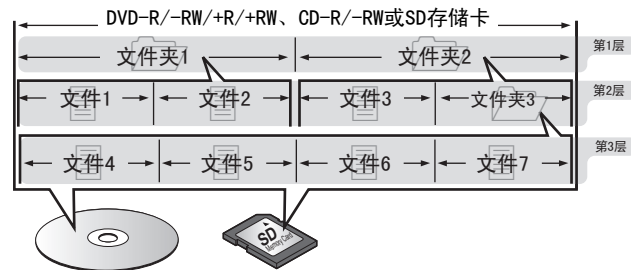
□ CD

CD被划分为若干部分(曲目)。各部分均分配有编号,称为曲目号。



□ 文件

录制在DVD-R/-RW/+R/+RW、CD-R/-RW和SD存储卡中的MP3/WMA/AAC/LPCM/JPEG/DivX®文件被划分为若干大分区(文件夹)和小分区(文件)。文件存储在文件夹中,而文件夹的设置方便按层次存储文件。DBP-4010UD最多可识别8层文件夹。



当将MP3/WMA/AAC/JPEG/DivX®文件写入CD-R/-RW光碟时,请将写入文件的格式设为“ISO9660”。如果文件以其它格式录制,则可能无法正常播放。有关详情,请参阅写入软件的说明。

使用媒体的注意事项

插入光碟

- 将光碟带有标签的一面朝上。
- 插入光碟时，务必确保光碟托盘完全打开。
- 将光碟与托盘定位槽对齐，水平放入托盘中。



如果装入了无法播放的光碟或光碟上下面装反，则播放机的显示屏上将显示“NO DISC(无光碟)”。

注

- 每次只能装入一张光碟。装入两张或两张以上的光碟将会损坏本机或划伤光碟。
- 请勿使用开裂或翘曲的光碟、或者用粘合剂等修复的光碟。
- 请勿使用透明胶带的粘性部分或标签外露、或者带有标签撕除痕迹的光碟。否则，此类光碟将卡在播放机中并损坏播放机。
- 请勿使用特殊形状的光碟，否则将损坏播放机。



- 电源关闭时，请勿用手将光碟托盘推入，否则会损坏托盘。

插入SD存储卡

- 沿箭头所示的方向，将SD存储卡标签朝上插入SD卡插槽中。
- 将存储卡径直插入SD卡的插槽中直到听到“咔嚓”声。
- 若要取出存储卡，请朝插入方向推，然后松开并弹出。

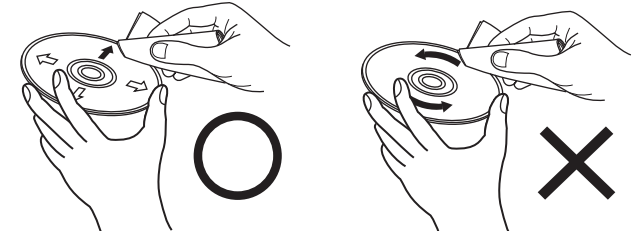


关于媒体的使用

- 请勿使光碟沾上指印、油或脏物。
- 从光碟盒中取出光碟时，请倍加小心，不要划伤光碟。
- 请勿弯曲光碟或使光碟受热。
- 请勿扩大光碟中间的孔。
- 请勿使用圆珠笔、铅笔等在有标签(印制)的一面涂写、或将新的标签粘贴到光碟上。
- 如果将光碟从寒冷处(例如室外)突然移至温暖处，光碟上可能会形成小水珠，此时请勿试图用吹风机等将其吹干。
- 正在播放SD存储卡中的内容时，请勿弹出SD存储卡或关闭DBP-4010UD的电源，否则将导致故障或卡中的数据丢失。
- 请勿试图拆开或修改SD存储卡。
- SD存储卡和文件会因静电而损坏，因此请勿用手指接触SD存储卡上的金属接点。
- 请勿使用翘曲的SD存储卡。
- 使用后，请务必取出光碟或取下SD存储卡，并将其存放到各自的收纳盒中，以防止集尘、划伤和变形。
- 请勿将光碟放置在以下地方：
 1. 长时间受阳光直射的地方
 2. 集尘或潮湿的地方
 3. 受取暖设备等热源影响的地方

清洁光碟

- 如果光碟上有指印或脏物，使用前请擦拭干净。
- 请使用市售的光碟清洁套件或软布清洁光碟。



注

请勿使用唱片喷雾、防静电剂、苯、稀释剂或其它溶剂。

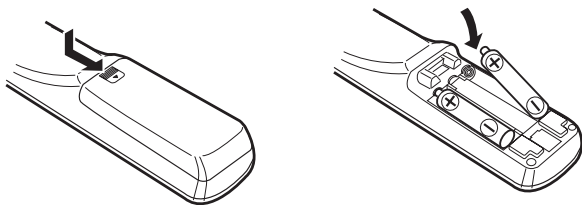
关于版权

- 未经授权，禁止对光碟进行复制、广播、公开演出和租借。
- 本产品融入了版权保护技术，受美国专利和其它知识产权的保护。
- 使用该版权保护技术必须得到Macrovision的授权，否则仅限于家庭和其它有限的观赏场合使用。禁止进行反向工程或拆解。
- 本产品的某些部分受版权法保护，并且须经ARIS/SOLANA/4C的许可才可获得。

关于遥控器

安装电池

- ① 拆下遥控器后盖。
- ② 按照标记所示方向将三节R6/AA电池装入电池匣内。



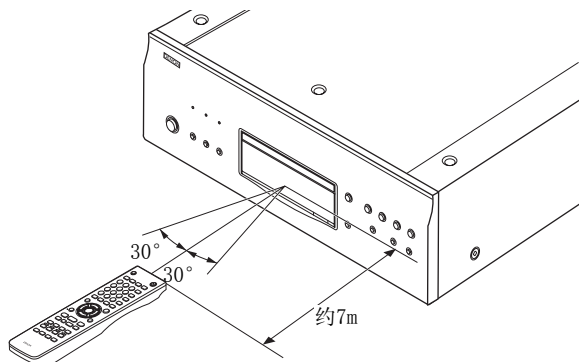
- ③ 关好后盖。

注

- 请在本遥控器中装入R6/AA电池。
- 如果即使靠近本机操作遥控器，本机也无法运转，请换上新电池。（附带的电池仅用于检验操作。）
- 装入电池时请参阅电池匣内的“⊕”和“⊖”标记，确保装入方向正确。
- 为防止损坏或电池漏液：
 - 请勿搭配使用新旧电池。
 - 请勿搭配使用两种不同类型的电池。
 - 请勿试图对干电池充电。
 - 请勿对电池进行短接、拆解、加热或以焚烧的方式废弃。
- 假如发生电池漏液，须仔细擦去电池匣内的漏液，然后装入新电池。
- 如果打算长时间不使用遥控器，请取出遥控器中的电池。
- 必须遵照废弃电池的相关地方条例来废弃旧电池。

遥控器的操作范围

操作遥控器时，请将其指向遥控感应窗。



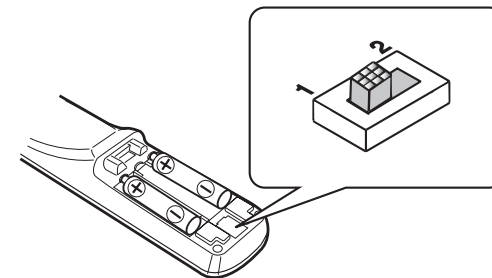
注

如果使遥控感应窗暴露于直射阳光、逆变式荧光灯发出的强烈人造光或红外光下，设备可能会功能异常，或者遥控器可能会无法操作。

遥控器设定(遥控器侧)

当DBP-4010UD的遥控器误操作了附近的另一台DENON BD播放机时，请切换遥控器设定。

请同时在主机上设定遥控器代码。
关于代码的设定方法，请参阅图形用户界面(GUI)菜单：“Other Setup(其它设置)” - “Remote Control Setting(遥控器设定)” - “Remote ID(遥控ID)” (☞第31页)。



【遥控器代码设定】

1 : 将遥控器代码设为“1”。

2 : 将遥控器代码设为“2”。



- 如果遥控器的信号代码与本机的信号代码不匹配，则显示屏上将显示本机上设定的遥控器代码。

【示例】

如果本机上的代码设定为“DENON 1(天龙1)”，遥控器上的设定为“2”，则显示屏上将显示“PLAYER 1(播放机1)”。

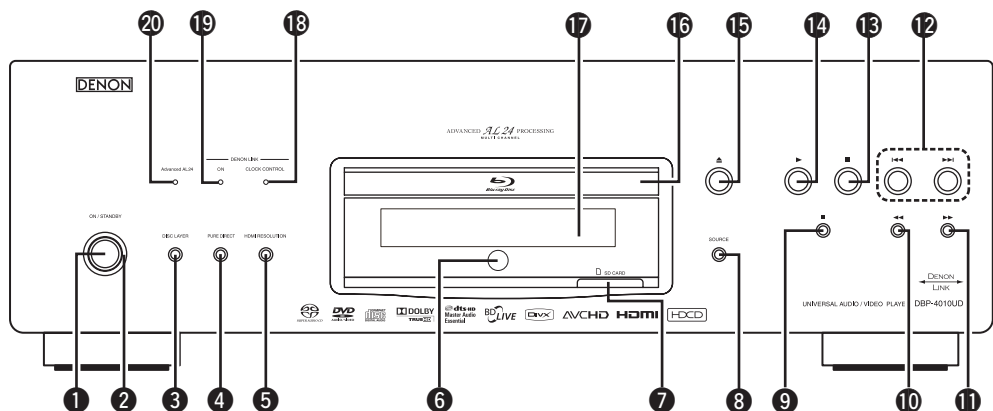
注

- 请使遥控器的信号代码与本机的信号代码相匹配。如果遥控代码不同，将无法通过遥控器来操作DBP-4010UD。
- 当通过非DENON品牌的遥控器来操作DBP-4010UD时，即使更改遥控器代码，也将图形用户界面(GUI)菜单中的“Other Setup(其它设置)” - “Remote Control setting(遥控器设定)” - “Receive Legacy Remocon(接收遗留遥控)” (☞第31页)设为“Off(关闭)”。

部件名称与功能

前面板

关于未在此处说明的按键，请参阅()页。

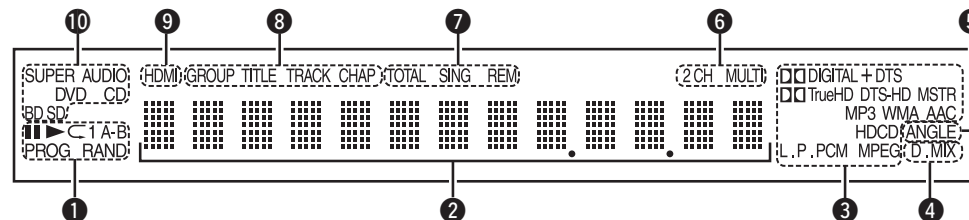


- ① 电源操作键 (ON/STANDBY (开启/候用))..... (20)
- ② 电源指示灯..... (20)
- ③ DISC LAYER (光碟层) 键..... (37)
- ④ PURE DIRECT (纯直入) 键..... (38)
- ⑤ HDMI RESOLUTION (HDMI 分辨率) 键..... (13)
- ⑥ 遥控感应窗..... (7)
- ⑦ SD CARD (SD卡) 插槽..... (6)
- ⑧ SOURCE (输入源) 键..... (34)
- ⑨ 暂停/静止键 (II)..... (41、43)
- ⑩ 快退/慢退键 (◀◀)..... (43)
- ⑪ 快进/慢进键 (▶▶)..... (43)
- ⑫ 后退跳读/前进跳读键 (◀◀, ▶▶)..... (41)
- ⑬ 停止键 (■)..... (41)
- ⑭ 播放键 (▶)..... (37)
- ⑮ 光碟托盘打开/关闭键 (▲)..... (34)
- ⑯ 光碟托盘..... (6)
- ⑰ 显示屏..... (8)
- ⑱ CLOCK CONTROL (时钟控制) 指示灯..... (17、28)
当采用DENON LINK 4th(天龙第四代链路)(无抖动)连接来播放BD时亮起。
- ⑳ DENON LINK (天龙链路) 指示灯..... (48)
- ㉑ ADVANCED AL24 (高级仿真波形再生技术) 指示灯..... (48)



当电源处于候用模式时，请按⑭和⑮来开启电源。

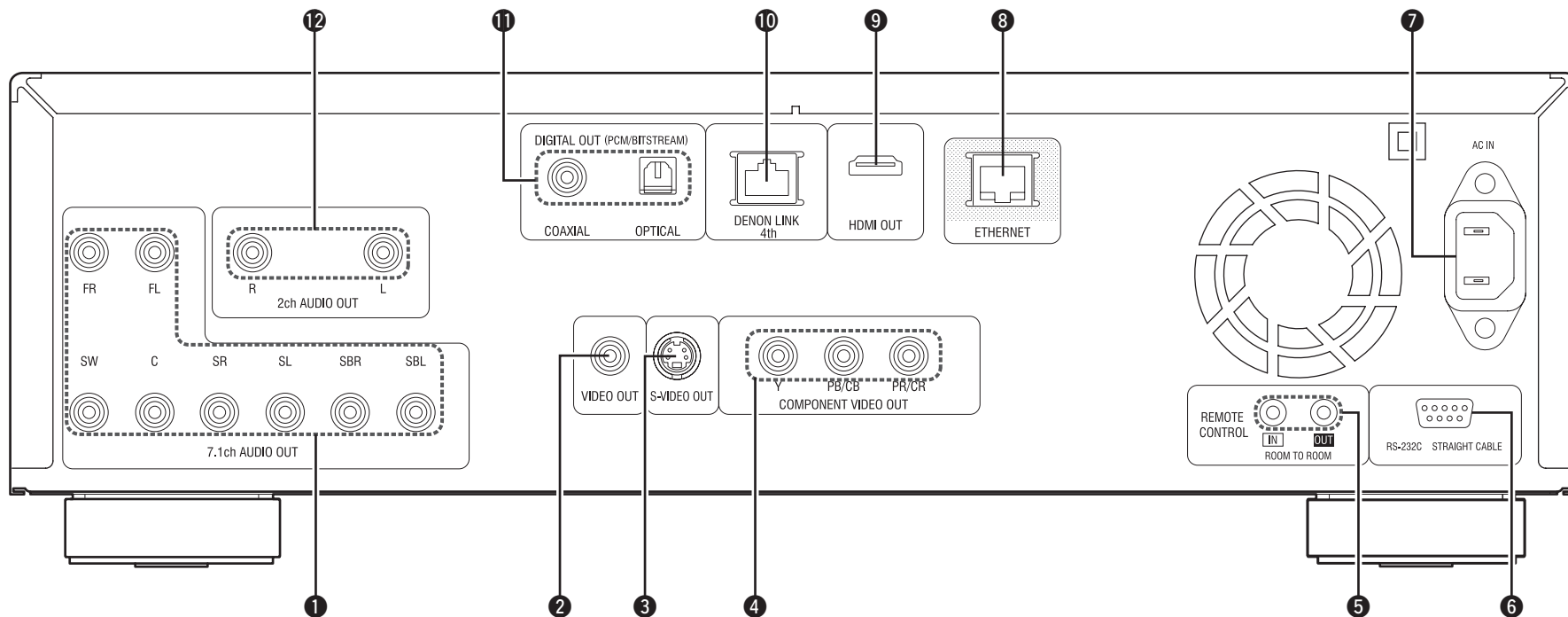
显示屏



- ① 播放模式指示
▶: 播放中
II: 暂停或逐帧播放中
PROG: 编程播放中
RAND: 随机播放中
◁1 A-B: 重复播放中
- ② 信息显示屏
显示光碟的各种信息或已播放时间等。
- ③ 播放格式指示
- ④ 降低混频指示
播放允许降低混频的音频时显示。
- ⑤ 角度信息指示
在当前正在播放的光碟中的某个场景是以多个角度拍摄时显示。
- ⑥ 音频声道指示
显示播放过程中的音频信号声道数量。
2CH: 双声道播放
MULTI: 多声道播放
- ⑦ 时间模式指示
TOTAL: 超级音频CD和CD的总播放时间
SING: 标题/章节/曲目/文件的已播放时间
REM: 标题/章节/曲目/文件的剩余播放时间
- ⑧ 分组/标题/曲目/章节指示
- ⑨ HDMI 输出指示
正在输出HDMI视频或音频信号时显示。
 当HDMI电缆未正确连接和HDMI连接未经验证时不显示。
- ⑩ 媒体指示
BD: BD
DVD: DVD-Video、DVD-R/+R/-RW/+RW
DVD AUDIO: DVD-Audio
SUPER AUDIO CD: 超级音频CD
CD: CD
SD: SD存储卡
显示已插入的媒体。

后面板

关于未在此处说明的按键，请参阅()页。



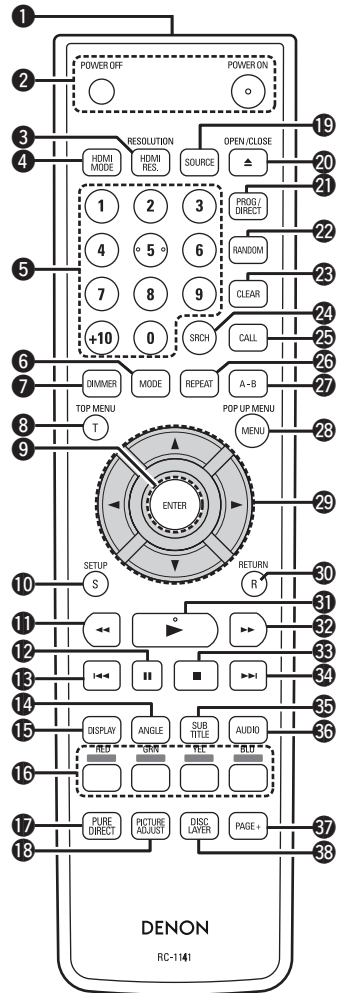
- ❶ 7.1ch AUDIO OUT (7.1声道音频输出) 端子... (16)
- ❷ VIDEO OUT (视频输出) 端子... (18)
- ❸ S-VIDEO OUT (S视频输出) 端子... (18)
- ❹ COMPONENT VIDEO OUT (色差视频输出) 端子... (18)
- ❺ ROOM TO ROOM IN/OUT (房间至房间输入/输出) 插孔 备用的扩展插孔。
- ❻ RS-232C端子 备用的扩展端子。
- ❼ 交流电引入插座 (AC IN) ... (20)
- ❽ ETHERNET (以太网) 端子... (19、20)
- ❾ HDMI OUT (HDMI输出) 端子... (13)
- ❿ DENON LINK 4th (天龙第四代链路) 端子... (17)
- ⓫ DIGITAL OUT OPTICAL/COAXIAL (数字输出光学/同轴) 端子... (15)
- ⓬ 2ch AUDIO OUT (双声道音频输出) 端子... (18) 对于以多声道录制的软件，将输出已降低混频至双声道的模拟信号。

注

- 请勿碰触后面板上端子的内部针脚。静电放电可能会对本机造成永久性损坏。
 - 请勿将手指或异物放在风扇开口上，否则会造成人身伤害或机器故障。
 - 当将来自DTS-HD 7.1声道输入源的音频输出为HDMI或模拟7.1声道音频以及双声道模拟音频时，请执行以下设定，从而将音频以输入源制造商和DTS公司预期的效果降低混频至正确的双声道模拟音频输出信号。
 - 在“HDMI Setup (HDMI设置)”中，将“Audio Setup (音频设置)”设为“2ch (双声道)” (☞ 第23页)。
 - 在“Audio Setup (音频设置)”中，将“7.1ch Audio Out (7.1声道音频输出)”设为“2 Channel (双声道)” (☞ 第25页)。
- 如果“HDMI Setup (HDMI设置)”中的“Audio Setup (音频设置)”和“Audio Setup (音频设置)”中的“7.1ch Audio Out (7.1声道音频输出)”未分别设为“2ch (双声道)”或“2 Channel (双声道)”，则将通过本机的降低混频功能输出双声道模拟音频。此时，降低混频的效果可能会与输入源制造商和DTS公司的预期不同。

遥控器

关于未在此处说明的按键，请参阅()页。



- ① 遥控信号发射器..... (7)
- ② 电源键(Power Off(电源关闭), Power On(电源开启))..... (20)
- ③ HDMI RESOLUTION(HDMI分辨率)键(HDMI RES.)..... (13)
- ④ HDMI MODE(HDMI模式)键..... (14)
- ⑤ 数字键(0~9、+10)..... (35、36)
- ⑥ MODE(模式)键..... (32)
- ⑦ DIMMER(调光器)键..... (47)
- ⑧ TOP MENU(顶部菜单)键(T)..... (36)
- ⑨ ENTER(确认)键..... (22)
- ⑩ SETUP(设置)键(S)..... (21)
- ⑪ 快退键(◀◀)..... (43)
- ⑫ 暂停/静止键(⏸)..... (41、43)
- ⑬ 后退跳读键(◀◀)..... (41)
- ⑭ ANGLE(角度)键..... (47)
- ⑮ DISPLAY(显示)键..... (34)
- ⑯ RED/GRN/YEL/BLU(红/绿/黄/蓝)键..... (38)
- ⑰ PURE DIRECT(纯直入)键..... (38)
- ⑱ PICTURE ADJUST(图像调节)键..... (33)
- ⑲ SOURCE(输入源)键..... (34)
- ⑳ 光碟托盘OPEN/CLOSE(打开/关闭)键(▲)..... (34)
- ㉑ PROG/DIRECT(编程/直入)键..... (45)
- ㉒ RANDOM(随机)键..... (44)
- ㉓ CLEAR(清除)键..... (33)
- ㉔ SEARCH(搜索)键(SRCH)..... (37)
- ㉕ CALL(调用)键..... (45)
- ㉖ REPEAT(重复)键..... (44)
- ㉗ A-B键..... (44)
- ㉘ MENU/POP UP MENU(菜单/弹出菜单)键..... (36)
- ㉙ 游标键(△▽◀▶)..... (22)
- ㉚ RETURN(返回)键(R)..... (22)
- ㉛ 播放键(▶)..... (37)
- ㉜ 快进键(▶▶)..... (43)
- ㉝ 停止键(■)..... (41)
- ㉞ 前进跳读键(▶▶)..... (41)
- ㉟ SUBTITLE(字幕)键..... (46)
- ㊱ AUDIO(音频)键..... (45、46)
- ㊲ PAGE+(向下翻页)键..... (38)
- ㊳ DISC LAYER(光碟层)键..... (37)



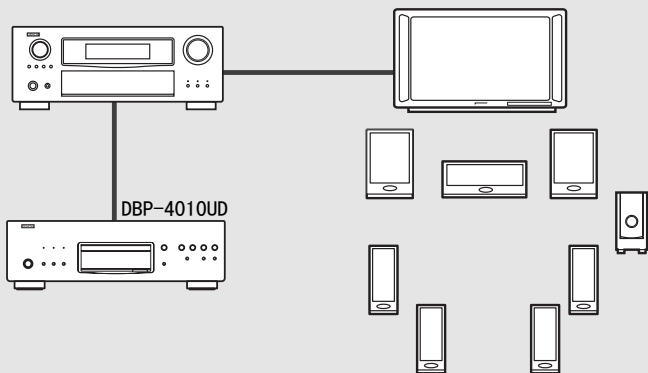
- 当电源处于候用模式时，按⑳和㉑可开启电源。
- 当操作BD弹出菜单画面等，可使用⑯。

连接方法

使用前，请按以下说明连接DBP-4010UD。根据要连接的设备进行连接。
根据连接方法而定，可能需要对DBP-4010UD进行一些设定。有关详情，请检查各连接项目。

1 家庭影院播放 - 采用多声道系统进行播放 -

☞ 第13页



多声道音频+视频

- HDMI 连接
“采用HDMI电缆连接至影音放大器或电视机” (☞ 第13页)

多声道音频

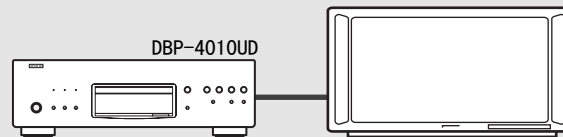
- DENON LINK (天龙链路) 连接
“进行无抖动连接” (☞ 第17页)
“进行常规连接” (☞ 第17页)
- 数字音频连接
“连接至不带HDMI音频输入的影音放大器” (☞ 第15页)
- 模拟7.1声道连接
“连接至带模拟多声道音频输入端子的设备” (☞ 第16页)

视频

- 模拟视频连接
“连接至不带HDMI视频输入的影音放大器” (☞ 第17页)

2 采用与电视机的直接连接进行播放

☞ 第18页



音频+视频

- HDMI 连接 (☞ 第13页)

..... 或

音频

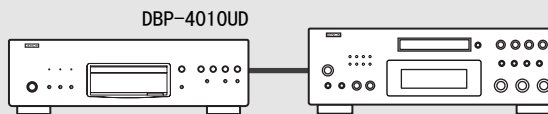
- 模拟音频连接 (☞ 第18页)

视频

- 模拟视频连接 (☞ 第18页)

4 录制CD

☞ 第19页



数字输出

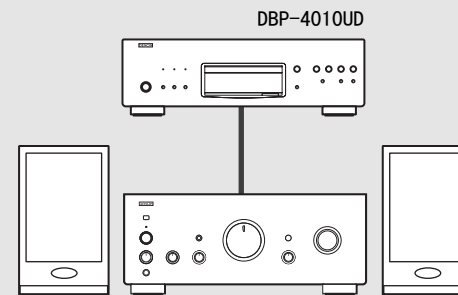
- “连接至数字录制设备” (☞ 第19页)

- 连接电源线
- 连接完成时

☞ 第20页

3 播放双声道音频

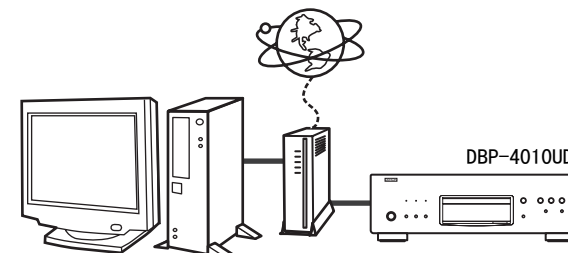
☞ 第18页



- 双声道立体声针插电缆 (非平衡) 连接
“采用立体声针插电缆连接至带模拟双声道音频输入端子的设备” (☞ 第18页)

5 使用BD-LIVE功能或更新DBP-4010UD的软件版本

☞ 第19页








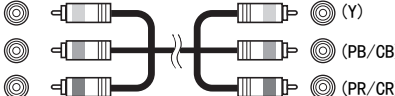




- 局域网连接
“连接至网络” (☞ 第19页)

准备工作

用于连接的电缆

准备与所要使用的设备相匹配的电缆。

音频和视频电缆	
HDMI 连接 (另售)	 19针HDMI电缆
音频电缆	
同轴数字连接 (另售)	 同轴数字 (75 Ω/欧姆针插) 电缆
光学数字连接 (另售)	 光学电缆
模拟连接 (立体声、环绕声) (附带1种)	 立体声针插电缆
模拟连接 (中置、低音炮) (另售)	 针插电缆

视频电缆	
色差视频连接 (另售)	 色差视频 (75 Ω/欧姆) 电缆 (Y) (PB/CB) (PR/CR)
S视频连接 (另售)	 S视频电缆
视频连接 (附带)	 75 Ω/欧姆针插视频电缆
其它电缆	
DENON LINK (天龙链路) 连接 (附带)	 DENON LINK (天龙链路) 电缆
网络连接 (另售)	 以太网电缆

注

- 所有连接完成前，请勿将电源线插入电源插座。
- 请务必阅读所连接设备的操作说明书。
- 首先检查连接声道，然后正确连接输入和输出声道。
- 请勿将电源线与连接电缆捆绑在一起，否则将产生噪音干扰。



- 只可使用带有HDMI标记(正宗HDMI产品)的HDMI(高分辨率多媒体接口)电缆。若使用不带HDMI标记(非正宗HDMI产品)的电缆，可能会导致播放异常。
- 当输出深色或1080p等信号时，建议使用高速HDMI电缆，以增强高质量播放的效果。

1. 家庭影院播放 - 采用多声道系统进行播放 -

采用HDMI 电缆连接至影音放大器或电视机

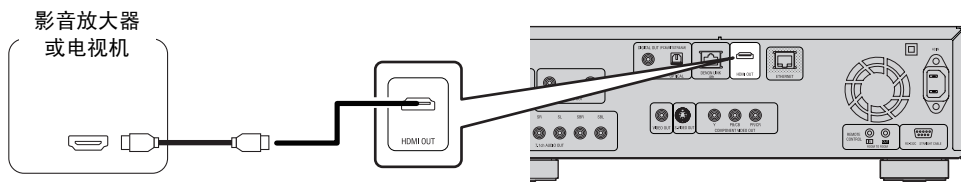
- 当使用HDMI 电缆进行连接时，请按 **HDMI MODE** 键并将其设为“HDMI On(HDMI 开启)”。
- DBP-4010UD可自动检测相连的HDMI 设备所支持的音频/视频信号并输出信号。若要更改设定，请参阅图形用户界面(GUI) 菜单上的“HDMI Setup(HDMI 设置)” (☞ 第23、24页)。

注

- 当按 **HDMI MODE** 键并将其设为“HDMI On(HDMI 开启)”时，将无视频信号从色差视频输出端子输出。
- 若要禁用来自HDMI端子的视频或音频输出，请将用于输出高质量模拟音频的选项，即“Pure Direct Setup(纯直入设置)”中的“Video Out(视频输出)”设为“Off(关闭)”。若要启用HDMI信号输出，请将纯直入模式设为以下设定中的任意一种：
 - 纯直入模式“Off(关闭)”、“User Preset 1(用户预设1)”或“User Preset 2(用户预设2)” (※) (“播放高质量音频(纯直入功能)” ☞ 第38页)
- ※ 请先将图形用户界面菜单上的“Pure Direct Setup(纯直入设置)” - “User Preset 1(用户预设1)”或“User Preset 2(用户预设2)” - “Video Out(视频输出)”设为“On(开启)” (☞ 第28页)，再进行此项设定。

“HDMI On(HDMI 开启)” 时

音频/视频信号从HDMI端子输出。
 当如“关于HDMI视频分辨率设定” (☞ 第13页) 中所述，将HDMI视频分辨率设为“Auto(自动)”时，DBP-4010UD将输出相连设备所支持的最高分辨率的视频信号。



注

- 当音频/视频信号从HDMI端子输出时，色差端子将不输出视频信号。
- 当1080P24等每秒24帧的信号从HDMI端子输出时，视频或S视频输出端子将不输出视频信号。

“HDMI Off(HDMI 关闭)” 时

音频/视频信号将不从HDMI端子输出。

❑ 连接至带DVI-D端子的设备

如果使用HDMI/DVI-D转换电缆(另售)，HDMI 视频信号将转换成DVI-D信号，从而实现与带DVI-D端子的设备的连接。

注

- 在这种情况下，音频信号将不输出。请对设备进行适当的音频连接。(☞ 第14~20页)。
- 视频信号将为RGB格式。
- 无法将信号输出至不支持 HDCP(高带宽数字内容版权保护系统)的DVI-D设备。
- 根据设备的组合而定，视频可能无法输出。

HDMI 连接所需的设定

设定HDMI 视频输出

❑ 进行HDMI 输出信号和HDMI 控制功能设定

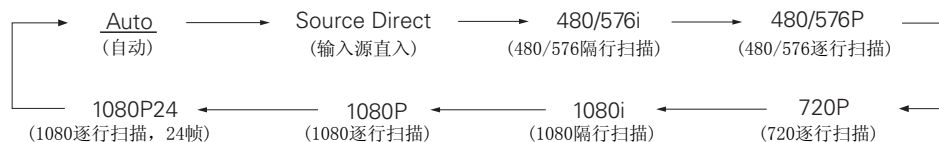
“HDMI Setup(HDMI 设置)” (☞ 第23、24页)

❑ 为所连接的电视机进行视频输出信号设定

“Video Setup(视频设置)” (☞ 第24页)

❑ 关于HDMI 视频分辨率设定

- 可通过按 **HDMI RES. RESOLUTION** 键来更改HDMI 视频分辨率。输出模式将按以下顺序切换。下划线部分为默认设定。



- 如果未将HDMI 分辨率设为“Auto(自动)”，请将其设定为与电视机的分辨率相一致。如果电视机的分辨率和DBP-4010UD的输出分辨率不匹配，则图像将无法正常投影。
- 如果切断了当前正在播放的相连设备的电源或切换了输入信号，则音频和视频信号将暂时中断。
- 改变DBP-4010UD的HDMI 视频分辨率时，DBP-4010UD和相连设备间将进行数秒至10秒左右的验证。在此期间将不输出音频/视频信号。
- 当输出深色或1080p等信号时，建议使用高速HDMI 电缆，以增强高质量播放的效果。



当从HDMI 端子输出每秒24帧的视频信号时，请将图形用户界面(GUI) 菜单上的“HDMI Setup(HDMI 设置)” - “I/P Direct(I/P直入)” (☞ 第23页) 设为“On(开启)”，然后选择“1080P24”或“Source Direct(输入源直入)”。

注

- 当将HDMI视频分辨率设为“1080P24”时，无论光碟上播放的是何种视频信号，DBP-4010UD都将输出分辨率为1080P和帧率为每秒24帧的HDMI视频信号。基于这个原因，当播放包含以24帧/秒以外的帧率录制的视频信号的光碟时，画面动作可能会不自然。如果发生这种情况，请将HDMI视频分辨率设为“1080P24”以外的选项。
- 当“I/P Direct (I/P直入)” (☞第23页) 设定为“On(开启)”且播放帧率为24帧/秒的光碟时，视频或S视频输出端子将不输出视频信号。
- 当“I/P Direct (I/P直入)” (☞第23页) 设定为“Off(关闭)”时，将不显示“1080P24”。

设定HDMI 音频输出

- 当按^{SETUP}键并将图形用户界面菜单中的“HDMI Setup (HDMI 设置)” - “Audio Setup (音频设置)” 设为“Auto(自动)” (☞第23页) 时，将根据相连设备来设定音频模式。
- 如果想要单独设定HDMI音频输出，请根据下表进行更改。
- 有关与相连设备兼容的HDMI音频输入规格，请参阅操作说明书。

要连接的设备	设定项目	有关输出信号和扬声器设定
配备以下内置解码器的设备 • Dolby TrueHD(杜比TrueHD) • Dolby Digital Plus(杜比数字Plus) • Dolby Digital(杜比数字) • DTS-HD • DTS	Auto(自动)	DBP-4010UD输出比特流信号，且该比特流信号由相连设备解码。 ※ 在这种情况下，无法通过DBP-4010UD对HDMI音频进行扬声器设定。 通过相连设备进行设定。 ※ 当输出Dolby TrueHD(杜比TrueHD)或DTS-HD音频时，请按 ^{MODE} 键并将“BD Audio Mode (BD音频模式)” 设为“HD Audio Output (HD音频输出)” (☞第32页)。
与多声道HDMI音频输入兼容、但无法为各声道进行扬声器设定的设备	Multi LPCM BM On (多声道线性PCM低音管理开启)	通过DBP-4010UD对扬声器进行设定，从而输出多声道线性PCM音频信号。 ※ 对于扬声器设定，请在图形用户界面(GUI)菜单的“Audio Setup(音频设置)” - “7.1ch Audio Out(7.1声道音频输出)” - “Multi Channel(多声道)” - “Speaker Configuration(扬声器配置)” (☞第25页) 中进行设定。 ※ BM: 低音管理(指多声道扬声器设定)
与多声道HDMI音频输入兼容、且可为各声道进行扬声器设定的设备	Multi LPCM BM Off (多声道线性PCM低音管理关闭)	从DBP-4010UD输出多声道线性PCM音频信号。 通过相连设备执行扬声器设定。 ※ BM: 低音管理(指多声道扬声器设定)
与双声道HDMI音频输入兼容的设备	2ch(双声道)	从DBP-4010UD输出经降低混频处理的双声道线性PCM音频信号。 通过相连设备执行扬声器设定。
与HDMI音频信号输入不兼容的设备	Mute (静音)	音频信号将不从DBP-4010UD的HDMI端子输出。 仅视频信号从HDMI端子输出。 ※ 进行音频连接。

□ 从HDMI输出端子输出的音频信号

可根据DBP-4010UD的HDMI音频输出信号将要输入的设备规格来更改音频格式和声道播放数量。检查要连接的音频设备的规格以及用于播放的媒体和文件中储存的音频格式/声道数，并进行设定。

媒体/文件	音频格式	在图形用户界面菜单中设定“HDMI Setup (HDMI 设置)” - “Audio Setup (音频设置)” (☞第23页)		
		Auto(自动)	Multi LPCM BM On/Off(多声道线性PCM低音管理开启/关闭)	2ch(双声道)
BD	Dolby Digital (杜比数字)	Dolby Digital (杜比数字) *1	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	Dolby Digital Plus (杜比数字Plus)	Dolby Digital Plus (杜比数字Plus) *1		
	Dolby TrueHD (杜比TrueHD)	Dolby TrueHD (杜比TrueHD) *1		
	DTS	DTS *1		
	DTS-HD	DTS-HD *1		
	LPCM(线性PCM)	Multi LPCM (多声道线性PCM)		
AVCHD	Dolby Digital (杜比数字)	Dolby Digital (杜比数字)	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	LPCM(线性PCM)	Multi LPCM (多声道线性PCM)		
DVD-Video	Dolby Digital (杜比数字)	Dolby Digital (杜比数字)	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	DTS	DTS		
	LPCM(线性PCM)、MPEG	2 ch LPCM(双声道线性PCM)		
DVD-Audio	LPCM (线性PCM)、PPCM	Multi LPCM(多声道线性PCM)	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	多声道区域			
超级音频CD *2	立体声区域	2 ch LPCM(双声道线性PCM)	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	CD层			
DivX®	Dolby Digital (杜比数字)	Dolby Digital (杜比数字)	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	MP3、MP2	2 ch LPCM(双声道线性PCM)		
CD、MP3、WMA、AAC、LPCM(线性PCM)		2 ch LPCM(双声道线性PCM)	Multi LPCM (多声道线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)
DTS-CD		DTS		

- *1: 当“BD Audio Mode (BD音频模式)” 设为“Mix Audio Output (混合音频输出)” (☞第32页) 时，将输出Multi LPCM(多声道线性PCM)信号。当输出分辨率为480i/576i或480p/576p的HDMI视频信号时，将输出Multi LPCM(多声道线性PCM)信号。
- *2: 超级音频CD音频信号将以44.1kHz 16-bit的格式输出。



即使在图形用户界面(GUI)菜单将“HDMI Setup (HDMI 设置)” - “Audio Setup (音频设置)” 设为“Auto(自动)” (☞第23页)，但如果连接了不支持比特流的设备，也将输出多声道线性PCM或经降低混频处理的双声道线性PCM信号。

版权保护系统

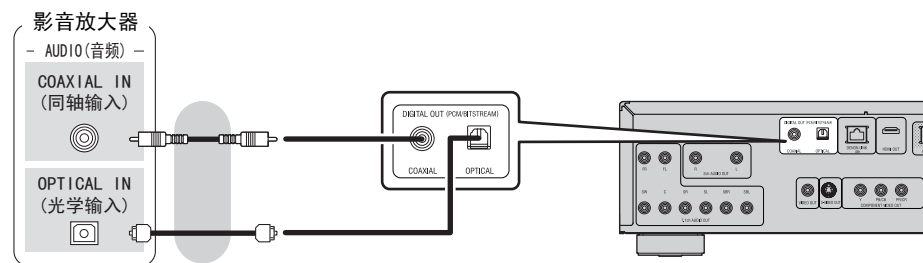
如果要通过HDMI连接来播放BD-Video或DVD-Video等数字视频和音频，则播放机和电视机或影音放大器都需支持名为HDCP(高带宽数字内容保护)的版权保护系统。HDCP是一项数据加密和验证相连影音设备的版权保护技术。DBP-4010UD支持HDCP。

注

- 如果连接了不支持HDCP的设备，则无法正确输出视频和音频信号。详情请参阅电视机或影音放大器的操作说明书。
- 从HDMI输出端子输出的音频信号(采样频率、声道数量等)可能会受到相连设备的HDMI音频规格在允许的输入方面的限制。例如，如果相连设备的HDMI音频规格为5.1声道，则即使通过DBP-4010UD播放7.1声道音频，仍将自动输出5.1声道音频。在这种情况下，模拟音频输出也将为5.1声道。
- 根据所使用的HDMI兼容监视器(投影机)而定，可能不支持音频信号输入。当将DBP-4010UD连接至此类设备时，音频信号将不从HDMI端子输出。

连接至不带HDMI 音频输入的影音放大器

当播放录制在BD光碟上的Dolby Digital Plus(杜比数字Plus)/Dolby TrueHD(杜比TrueHD)/DTS-HD音频时，DBP-4010UD将从其数字音频输出端子输出Dolby Digital(杜比数字)或DTS比特流信号。



注

- 采用该连接时，Dolby TrueHD(杜比TrueHD)/Dolby Digital Plus(杜比数字Plus)/DTS-HD音频信号将不输出。当输出Dolby TrueHD(杜比TrueHD)/Dolby Digital Plus(杜比数字Plus)/DTS-HD音频信号时，请采用HDMI连接(☞第13页，“采用HDMI电缆连接至影音放大器或电视机”)。
- 超级音频CD的DSD信号无法输出。另外，在播放CD层时，将输出44.1kHz/16-bit线性PCM信号。
- 请勿将DTS音频信号输出至不支持DTS的影音放大器。播放录有DTS内容的BD/DVD光碟将产生噪音甚至损坏扬声器。
- 采用光学传输电缆(另售)进行连接时，请确保插头形状与插座吻合，然后将插头完全插入。



形状吻合

从数字音频输出(光学/同轴)端子输出的音频信号

DBP-4010UD可转换和输出录制在媒体中的数字音频信号格式。
根据要输入从DBP-4010UD输出的数字音频信号的设备规格来转换数字音频信号。

媒体/文件	音频格式	在图形用户界面菜单中设定“Audio Setup(音频设置)” - “Digital Out(数字输出)” (☞ 第27页)	
		Bitstream(比特流)	PCM/PCM Down Sampling(PCM/PCM降采样)
BD	Dolby Digital(杜比数字)	Dolby Digital(杜比数字) *1	2 ch Downmix LPCM(双声道降低混频线性PCM)
	Dolby Digital Plus(杜比数字Plus)		
	Dolby TrueHD(杜比TrueHD)		
	DTS	DTS *1	
	DTS-HD		
	LPCM(线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM) *1	
AVCHD	Dolby Digital(杜比数字)	Dolby Digital(杜比数字)	
	LPCM(线性PCM)	2 ch Downmix LPCM(双声道降低混频线性PCM)	
DVD-Video	Dolby Digital(杜比数字)	Dolby Digital(杜比数字)	
	DTS	DTS	
	LPCM(线性PCM)、MPEG	2 ch Downmix LPCM(双声道降低混频线性PCM)	
DVD-Audio	LPCM(线性PCM)、PPCM	2 ch Downmix LPCM(双声道降低混频线性PCM)	
超级音频CD	多声道区域	不输出音频	
	立体声区域		
	CD层	2 ch LPCM(双声道线性PCM)	
DivX®	Dolby Digital(杜比数字)	Dolby Digital(杜比数字)	2 ch Downmix LPCM(双声道降低混频线性PCM)
	MP3、MP2		
CD		2 ch LPCM(双声道线性PCM)	
MP3、WMA、AAC、LPCM(线性PCM)			
DTS-CD		DTS	2 ch Downmix LPCM(双声道降低混频线性PCM) (DTS *2)

*1: 当“BD Audio Mode(BD音频模式)”设为“Mix Audio Output(混合音频输出)” (☞ 第32页)时, 将根据BD重编码设定输出比特流信号。

*2: 当在图形用户界面菜单上将“HDMI Setup(HDMI设置)” - “Audio Setup(音频设置)”设为“Auto(自动)”且HDMI输出比特流时, DTS比特流也将从数字音频输出(光学/同轴)端子输出。



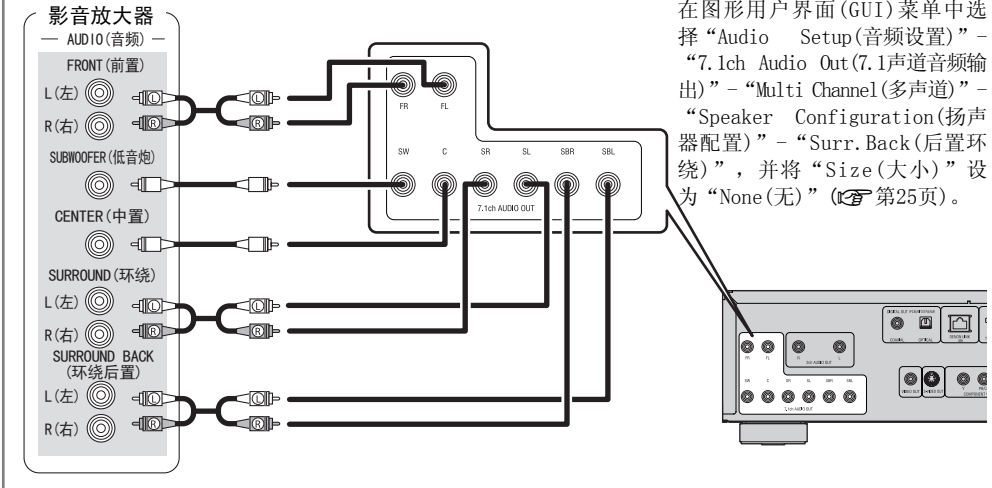
对于包含版权保护的内容, 音频信号将降采样至48kHz 16bit后输出。

连接至带模拟多声道音频输入端子的设备

输出由DBP-4010UD解码的多声道音频信号。
如果音频设备带模拟多声道音频输入端子, 请用音频电缆(另售)进行连接。



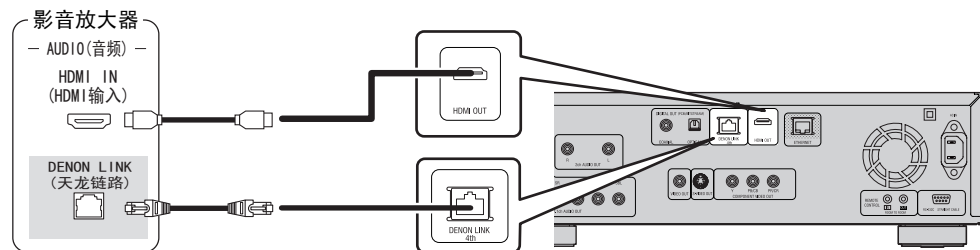
采用5.1声道连接时, 无需连接SBR/SBL端子。在这种情况下, 请在图形用户界面(GUI)菜单中选择“Audio Setup(音频设置)” - “7.1ch Audio Out(7.1声道音频输出)” - “Multi Channel(多声道)” - “Speaker Configuration(扬声器配置)” - “Surr. Back(后置环绕)”, 并将“Size(大小)”设为“None(无)” (☞ 第25页)。



采用DENON LINK (天龙链路) 连接①进行无抖动连接

BD

当使用DENON LINK (天龙链路) 电缆和HDMI电缆将DBP-4010UD连接至兼容DENON LINK 4th (天龙第四代链路) 功能的影音放大器时, 在BD播放过程中, DBP-4010UD的电路将以影音放大器的主时钟信号工作。(DBP-4010UD的时钟控制指示灯亮起。) 这样即可实现抖动最小的高质量数字音频传输。

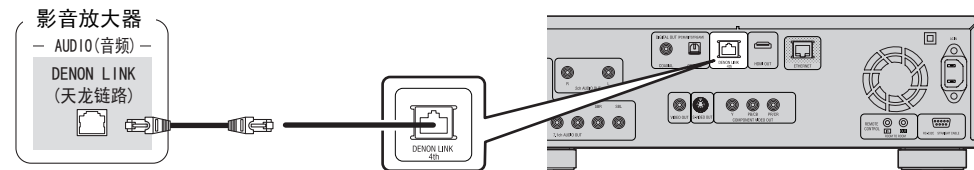


注

- 当使用DENON LINK 4th (天龙第四代链路) 功能时, 请按 键并设为“HDMI On (HDMI开启)”。
- 无抖动功能仅在BD播放时有效。此时, 视频信号从HDMI输出端子输出, 而音频信号则从DENON LINK (天龙链路) 端子输出。

采用DENON LINK (天龙链路) 连接②进行常规连接

- 当连接至兼容DENON LINK (天龙链路) 的影音放大器时, DVD-Audio (DVD音频) 光碟、超级音频CD等的多声道信号能以与数字格式相同的方式进行传输。
- DENON LINK (天龙链路) 连接要求要连接的影音放大器的版本与DBP-4010UD的版本相匹配。检查影音放大器的版本, 然后在图形用户界面 (GUI) 菜单中设定“DENON LINK Setup (天龙链路设置)” - “DENON LINK Mode (天龙链路模式)” (参考第28页)。
如果DBP-4010UD和影音放大器的版本不匹配, 音频将无法正确输出。



注

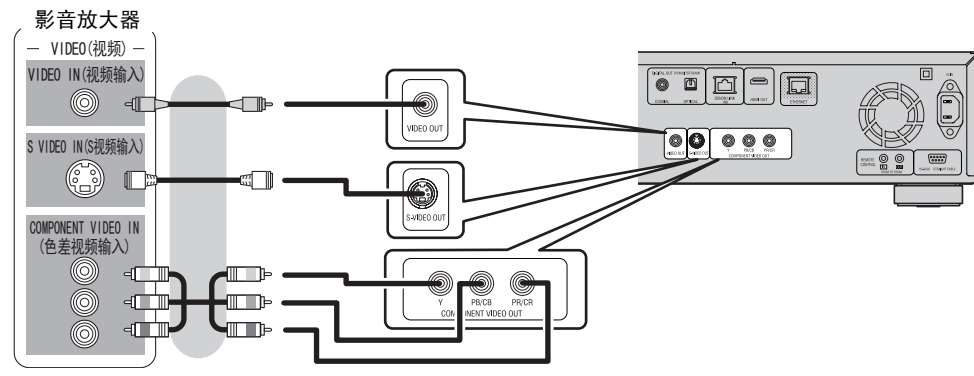
DENON LINK (天龙链路) 不支持BD音频传输。



- DENON LINK (天龙链路) 在192/176.4 kHz的采样率下支持高达24 bit/2 ch的数字传输, 并在96 kHz或更低的采样率下支持高达24 bit/6 ch的数字输出。
- 若已进行了DENON LINK (天龙链路) 连接, 则DBP-4010UD的扬声器设定将变为无效。(在相连的影音放大器上进行扬声器设定)
- DENON LINK 2nd (天龙第二代链路) 无法传输超级音频CD的多声道/立体声区域音频。

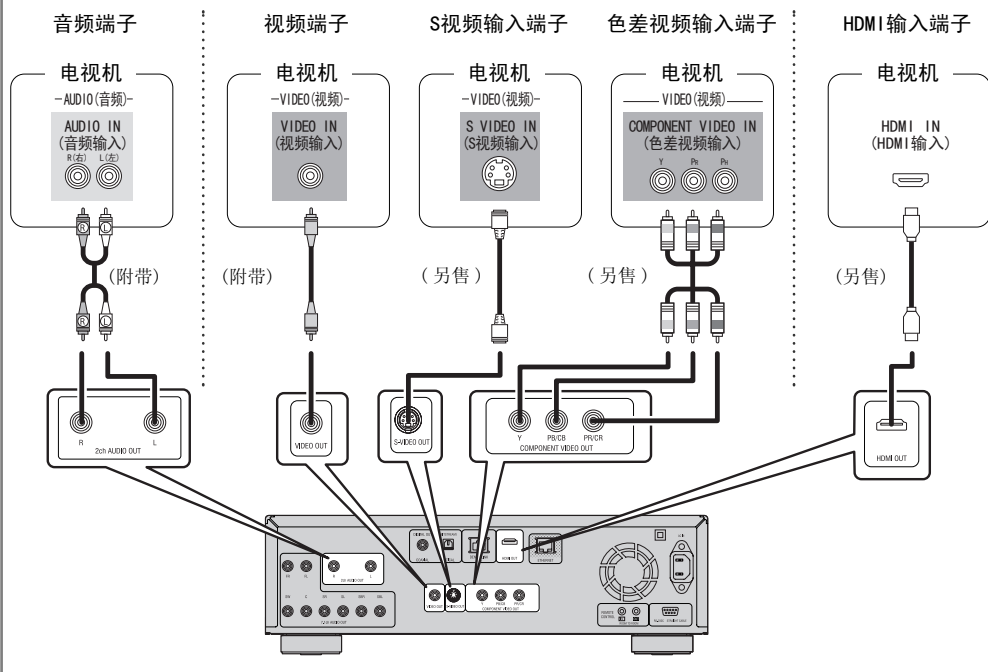
连接至不带HDMI 视频输入的影音放大器

- 检查各视频端子, 并连接到其中一个端子。
- 当采用色差视频输出进行连接时, 请按 键并将其设为“HDMI Off (HDMI关闭)”。



2. 采用与电视机的直接连接进行播放

检查电视机的各音频和视频端子，并连接到其中一个端子。



注

请勿通过VCR(盒式磁带录像机)来连接DBP-4010UD的视频输出。某些媒体包含版权保护信号，这些信号将对屏幕图像产生干扰。

播放NTSC光碟时，DBP-4010UD的视频输出将变为NTSC信号格式。

播放PAL光碟时，DBP-4010UD的视频输出将变为PAL信号格式。

□ 当连接至电视机的色差视频输入端子时

- DBP-4010UD的色差视频输出支持480i/576i/480p/576p/720p/1080i输出。在图形用户界面(GUI)菜单上进行如下设定，使输出与相连电视机的对应分辨率匹配：“Video Setup(视频设置)” - “Component Resolution(色差分辨率)” (☞ 第24页)。如果电视机的分辨率和DBP-4010UD的输出分辨率不匹配，则图像将无法正常投影。受版权保护的DVD将以480i/576i或480p/576p的分辨率输出。

注

当按 **HDMI MODE** 键并将其设为“HDMI On(HDMI开启)”时，将无视频信号从色差视频端子输出。当使用色差视频端子时，请将HDMI模式设为“HDMI Off(HDMI关闭)”。

□ 当连接至HDMI输入端子时

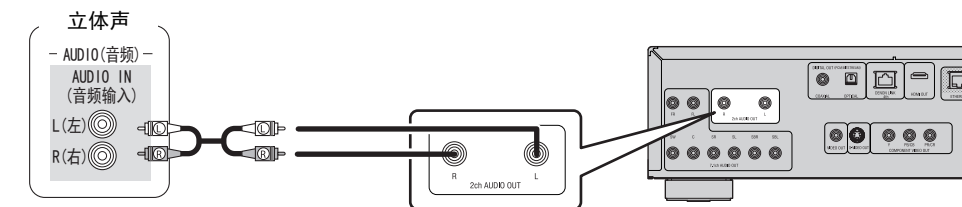
同时输出数字视频和数字音频信号。

有关HDMI视频输出和音频输出设定，请参阅“HDMI连接所需的设定”(☞ 第13页)。

3. 播放双声道音频

采用立体声针插电缆连接至带模拟双声道音频输入端子的设备

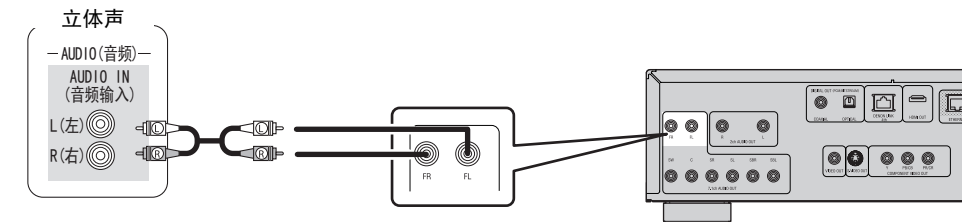
当使用模拟双声道音频输出端子连接时



对于以多声道录制的软件，将输出已降低混频至双声道的模拟信号。

当使用模拟7.1声道音频输出端子连接时

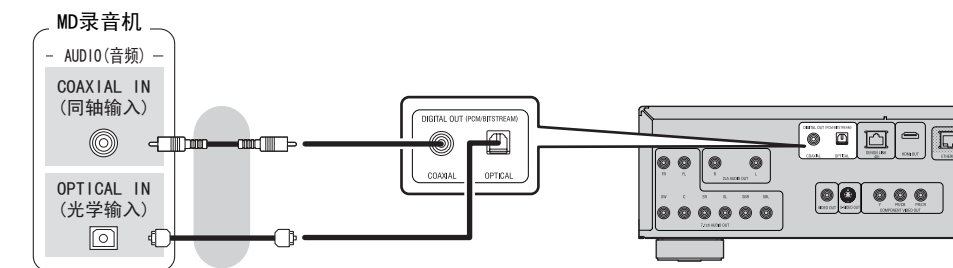
在图形用户界面(GUI)菜单中选择“Audio Setup(音频设置)” - “7.1ch Audio Out(7.1声道音频输出)”，并将其设为“2 channel(双声道)” (☞ 第25页)。



对于以多声道录制的软件，将输出已降低混频至双声道的模拟信号。

4. 录制CD

连接至数字录音设备

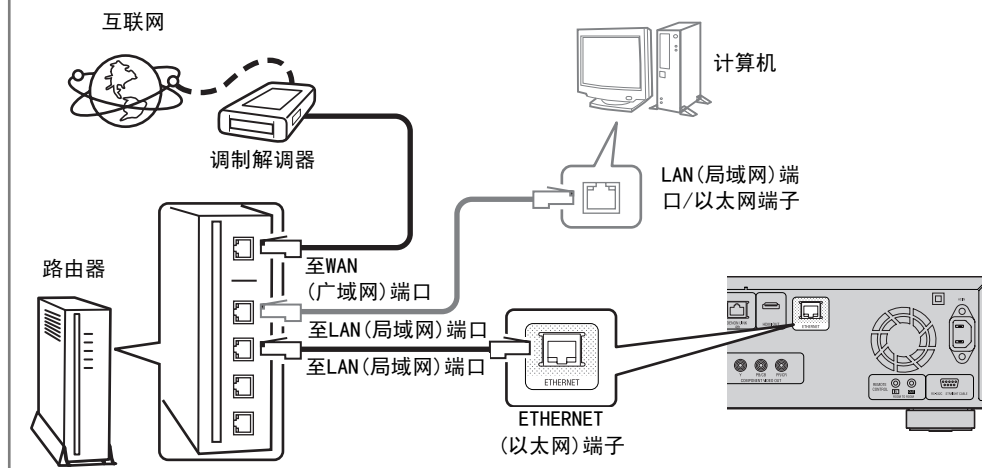


将多声道音频转换成双声道音频用于输出时，请在图形用户界面(GUI)菜单中选择“Audio Setup(音频设置)”-“Digital Out(数字输出)”，并将其设为“PCM Down Sampling(PCM降采样)”(☞第27页)。如果以不正确的配置来播放DVD或其它媒体，将产生震耳欲聋的噪音，进而可能损坏扬声器。

5. 使用BD-LIVE功能或更新DBP-4010UD的软件版本

连接至网络

- 只需将本机连至互联网(☞第36页)，即可使用具备BD-LIVE功能的光碟。
- 可从互联网下载最新的固件进行更新。
有关详情，请在图形用户界面(GUI)菜单中选择“Other Setup(其它设置)”-“Firmware Update(固件更新)”(☞第31页)。
- 关于网络设定的详细信息，请参阅图形用户界面(GUI)菜单中的“Network Setup(网络设置)”(☞第29页)。



系统要求

□ 通过宽带进行互联网连接

□ 调制解调器

用于连接至宽带并在互联网上进行通信的设备。
另外还有一种与路由器相集成的调制解调器供选用。

□ 路由器

在使用DBP-4010UD时，建议使用具备以下功能的路由器：

- 内置的DHCP(动态主机配置协议)服务器。
该服务器具备在局域网上自动分配IP地址的功能。
- 内置的100BASE-TX开关(兼容100 Mbps以上速度的内置开关集线器)

□ 以太网电缆(建议使用CAT-5或更高规格)

- DBP-4010UD未附带以太网电缆。
 - 建议使用屏蔽直通以太网电缆(标准型)。
- 如果使用扁平型或非屏蔽电缆，则干扰信号可能会对其它设备造成负面影响。



请采用ISP(互联网服务提供商)协议进行互联网连接。详情请咨询当地经销商。

注

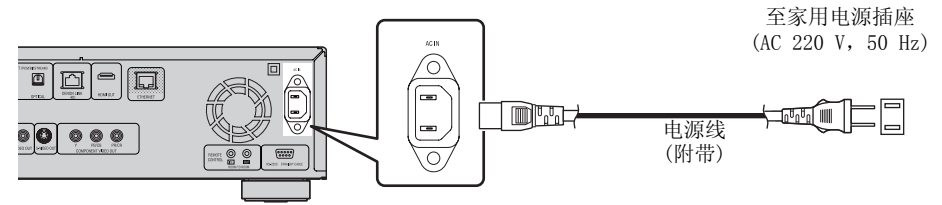
- 若要连接至互联网，需向ISP订购服务。如果已具备宽带连接，则无需再行订购服务。
- 可使用的路由器因ISP而异。详情请与ISP或计算机经销商联系。
- 对于任何由用户的网络环境或相连设备所导致的通信错误或故障，DENON概不承担责任。

□ 其它

- DBP-4010UD可使用DHCP功能自动设定网络。
- 对于手动执行网络设定的线路类型，当已向提供商订购了服务时，可根据图形用户界面(GUI)菜单上的“Network Setup(网络设置)”进行设定(☞第29页)。
- 如果将DBP-4010UD连接至无DHCP功能的网络，请根据图形用户界面(GUI)菜单上的“Network Setup(网络设置)”进行IP地址和其它项目的设定(☞第29页)。
- DBP-4010UD不支持PPPoE。如果订购了采用PPPoE设定的网络线路服务，则需要一台兼容PPPoE的路由器。
- 手动设定时，务必请网络管理员检查设定内容。

连接电源线

将附带的电源线的一头连接至DBP-4010UD，另一头插入交流电源插座。





注

请务必将电源线牢牢插入。连接不牢固将产生噪声。

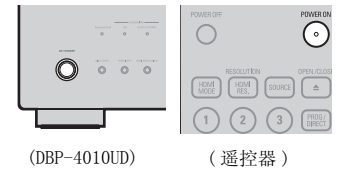
连接完成时

开启电源

按主机上的  键或遥控器上的  键。

开启电源后，电源指示灯点亮为绿色。
显示屏上出现“LOADING(载入中)”信息，并读取光碟信息。

※ 当未装入光碟时，则显示“NO DISC(无光碟)”信息。



当在图形用户界面菜单上设为“Other Setup(其它设置)”-“Auto Power Mode(自动电源模式)”-“On(开启)”(☞第31页)时，以下状态将维持约30分钟，之后电源将自动切换至候用状态。

- 未装入光碟
- 播放已停止
- 由于断点续播功能而停止播放

□ 当电源切换至候用状态时

请按主机上的  键或遥控器上的  键。


电源指示灯点亮为红色。

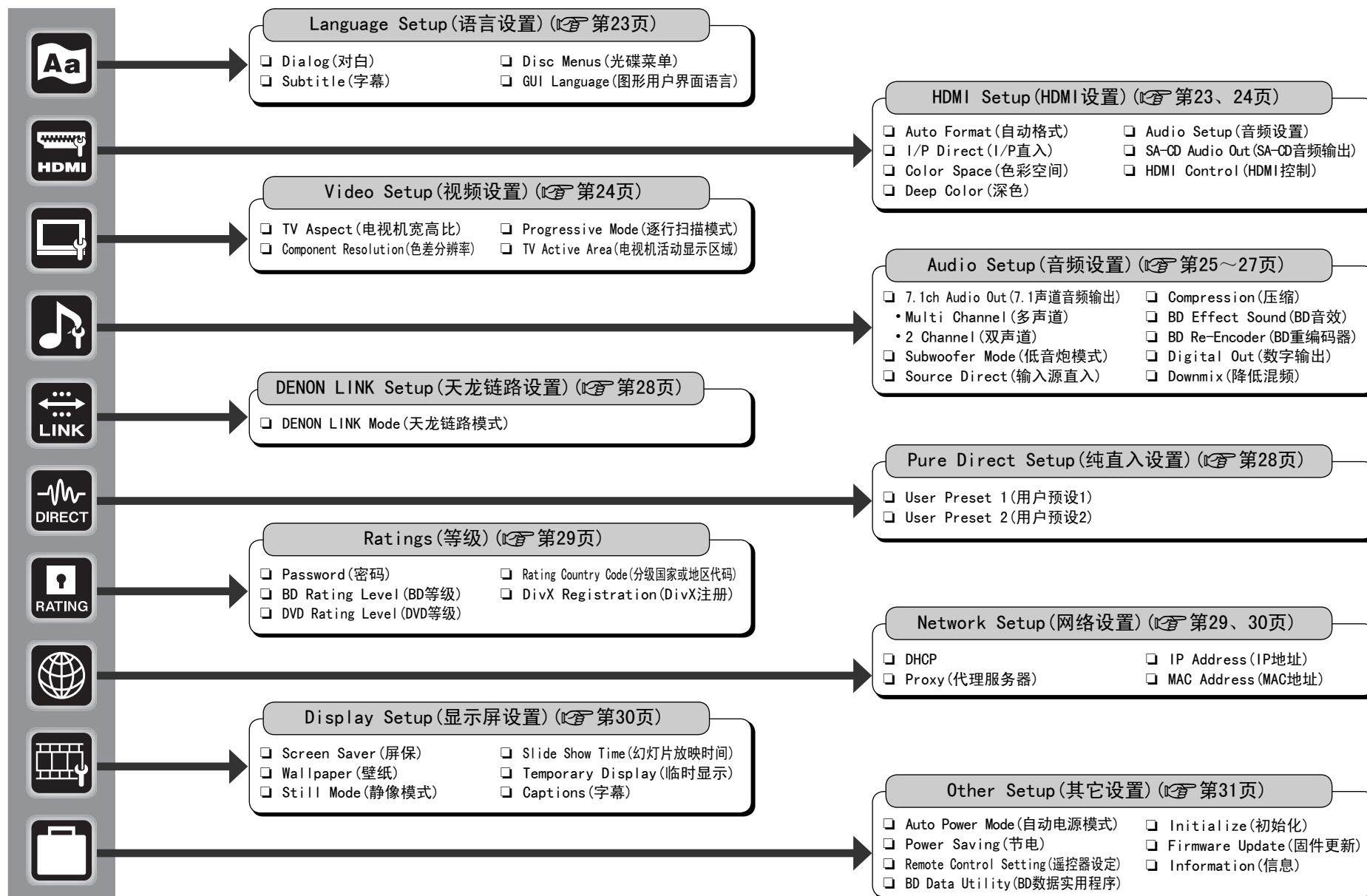
注

在电源候用期间，将消耗少量的功率。若要完全切断电源，请将电源线从电源插座中拔出。

图形用户界面菜单设置

菜单图

按  键显示图形用户界面 (GUI) 菜单。从该菜单可进入各种设定画面。



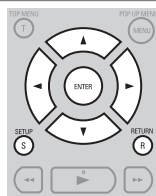
图形用户界面 (GUI) 菜单操作

1 按 **SETUP** 键。
电视机屏幕上显示图形用户界面 (GUI) 菜单。

2 按 **左/右** 键选择要设定或操作的菜单。

※ 若要返回至先前项目, 请按 **左/右** 键或 **RETURN** 键。

3 按 **ENTER** 键确认设定。



退出图形用户界面 (GUI) 菜单

图形用户界面 (GUI) 菜单显示时, 按 **SETUP** 键。

• 图形用户界面 (GUI) 菜单的显示消失。

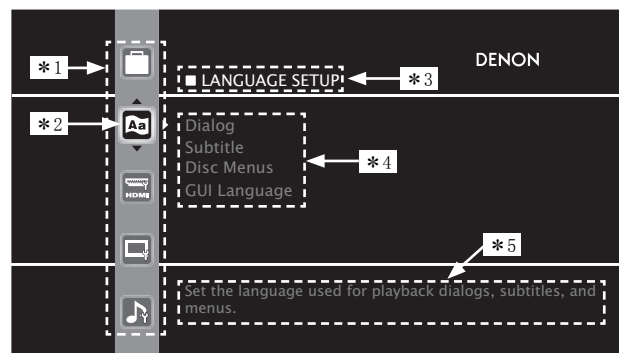
注

在未插入光碟或SD存储卡时, 必须使用图形用户界面 (GUI) 菜单进行设定或操作。在断点续播功能激活的情况下, 可能无法进行正确设定。

图形用户界面 (GUI) 菜单画面显示的示例

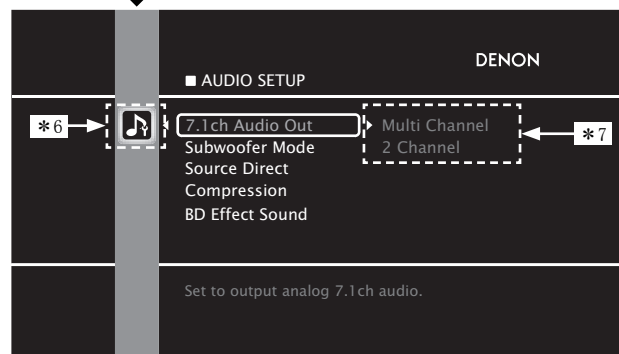
下文描述了典型示例。

【示例1】菜单选择画面 (顶部菜单)



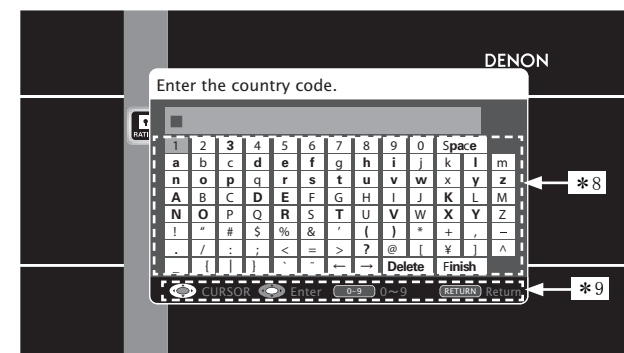
- *1: 图形用户界面 (GUI) 菜单设置图标列表
- *2: 当前所选设置图标
- *3: 当前所选设置项目
- *4: 当前所选设置项目列表
- *5: 当前所选设置项目的说明文本

按 **左/右** 键选择 “**🎵**”, 然后按 **ENTER** 键。
(或按 **ENTER** 键。)



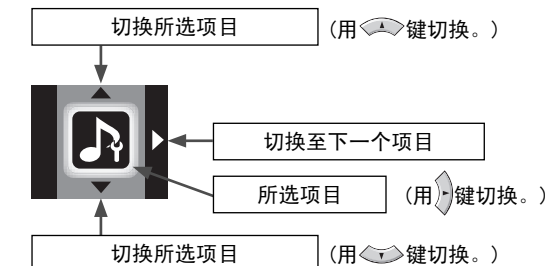
- *6: 所选设置图标
- *7: 所选设置项目的选项

【示例2】分级国家或地区代码输入画面 (通过虚拟键盘输入)

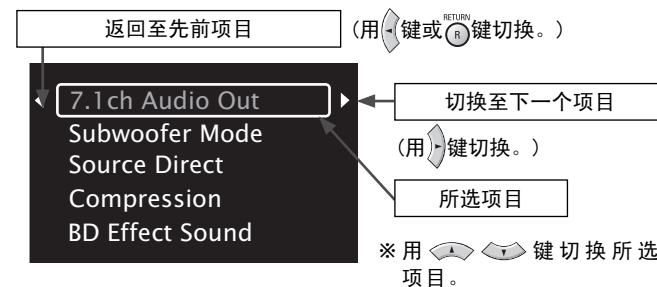


- *8: 虚拟键盘
- *9: 操作键指南

图标



列表



图形用户界面 (GUI) 菜单中所选项目的文本颜色如下:

- 白色: 可选项目。
- 灰色: 不可选项目。



Language Setup (语言设置)

默认设定带下划线。

设定用于播放对白、字幕和菜单的语言。

设定项目	设定内容
Dialog (对白) 设定用于播放BD或DVD的对白。	Original (原声) : 播放光碟中储存的、可在语言菜单顶部选择的对白。 English (英语) / French (法语) / Spanish (西班牙语) / German (德语) / Japanese (日语) / Italian (意大利语) / Swedish (瑞典语) / Dutch (荷兰语) / Russian (俄语) / Chinese (中文) / Korean (韩语) / Danish (丹麦语) / Finnish (芬兰语) / Norwegian (挪威语) / Icelandic (冰岛语) / Hungarian (匈牙利语) / Romanian (罗马尼亚语) / Turkish (土耳其语) / Greek (希腊语) / Irish (爱尔兰语) / Portuguese (葡萄牙语) / Polish (波兰语) / Czech (捷克语) / Slovak (斯洛伐克语) / Bulgarian (保加利亚语) Others (其它) : 输入语言代码。
Subtitle (字幕) 设定用于播放BD或DVD的字幕语言。	Off (关闭) : 不显示字幕。 English (英语) / French (法语) / Spanish (西班牙语) / German (德语) / Japanese (日语) / Italian (意大利语) / Swedish (瑞典语) / Dutch (荷兰语) / Russian (俄语) / Chinese (中文) / Korean (韩语) / Danish (丹麦语) / Finnish (芬兰语) / Norwegian (挪威语) / Icelandic (冰岛语) / Hungarian (匈牙利语) / Romanian (罗马尼亚语) / Turkish (土耳其语) / Greek (希腊语) / Irish (爱尔兰语) / Portuguese (葡萄牙语) / Polish (波兰语) / Czech (捷克语) / Slovak (斯洛伐克语) / Bulgarian (保加利亚语) Others (其它) : 输入语言代码。
Disc Menus (光碟菜单) 设定BD或DVD菜单使用的语言。	English (英语) / French (法语) / Spanish (西班牙语) / German (德语) / Japanese (日语) / Italian (意大利语) / Swedish (瑞典语) / Dutch (荷兰语) / Russian (俄语) / Chinese (中文) / Korean (韩语) / Danish (丹麦语) / Finnish (芬兰语) / Norwegian (挪威语) / Icelandic (冰岛语) / Hungarian (匈牙利语) / Romanian (罗马尼亚语) / Turkish (土耳其语) / Greek (希腊语) / Irish (爱尔兰语) / Portuguese (葡萄牙语) / Polish (波兰语) / Czech (捷克语) / Slovak (斯洛伐克语) / Bulgarian (保加利亚语) Others (其它) : 输入语言代码。
GUI Language (图形用户界面语言) 设定图形用户界面语言。	English (英语) / Français (法语) / Español (西班牙语) / Deutsch (德语) / Italiano (意大利语) / Svenska (瑞典语) / Nederlands (荷兰语) / 日本語 (日语)

注

根据光碟而定，设定可能无效。



如果为“Dialog (对白)”、“Subtitle (字幕)”或“Disc Menus (光碟菜单)”项目选择了“Other (其它)”，则请参阅“语言代码列表”(第49页)，并用数字键0~9输入语言代码，然后按ENTER键确认设定。





HDMI Setup (HDMI 设置)

默认设定带下划线。

设定HDMI输出信号或HDMI控制功能。

设定项目	设定内容
Auto Format (自动格式) RESOLUTION HDMI RES. 键将HDMI视频输出分辨率项目设为“Auto (自动)”(第14页)。	Max Res. (最高分辨率) : 使用相连的电视机可处理的最高分辨率来输出数据。 Panel Res. (面板分辨率) : 使用相连电视机的面板的最高分辨率来输出数据。 如果电视机不支持1080P24格式，则以1080P格式输出视频。
I/P Direct (I/P直入) 设定I/P转换器是否转换24P帧。	Off (关闭) : 将1080逐行扫描的24帧转换为60帧。 On (开启) : 不转换，而是直接输出1080逐行扫描的24帧。 注 在“I/P Direct (I/P直入)”设为“On (开启)”的情况下播放某些光碟时，将无视频信号从视频和S视频端子输出。
Color Space (色彩空间) 设定要从HDMI输出的视频信号系统。	YCbCr : 以YCbCr视频格式输出。 RGB Normal (RGB普通色) : 采用RGB视频系统(16(黑)~235(白))进行输出。 RGB Enhanced (RGB增强色) : 采用RGB视频系统(0(黑)~255(白))进行输出。
Deep Color (深色) 将HDMI端子设定为输出Deep Color (深色)。 该设定可扩展HDMI视频信号的色彩深度(所使用的颜色数目)，从而能够以更自然的颜色进行无带噪播放。	Auto (自动) : 当相连的HDMI设备支持Deep Color (深色)时，将自动输出Deep Color (深色)。 Off (关闭) : 不输出Deep Color (深色)。
Audio Setup (音频设置) 设定要从HDMI输出的音频信号系统。	【Auto (自动)】 : 自动选择并输出可以输入到相连HDMI设备的信号，其中比特流信号优先。 【Multi LPCM BM On (多声道线性PCM低音管理开启)】 : 由DBP-4010UD输出解码后的线性PCM多声道信号。扬声器设定被启用。(BM: 低音管理) 关于设定，请参阅图形用户界面(GUI)菜单中的“Audio Setup (音频设置)” - “7.1ch Audio Out (7.1声道音频输出)”(第25、26页)。 • Speaker Configuration (扬声器配置) : 设定用于播放的扬声器配置。将根据设定，自动设定声道组成及特性。 • Channel Level (声道电平) : 当测试音调从各个扬声器输出时，将测试音调的音量设为相同。 • Distance (距离) : 设定视听位置和各扬声器之间的距离。



设定项目	设定内容
Audio Setup (音频设置)	<p>【Multi LPCM BM Off (多声道线性PCM低音管理关闭)】: 由DBP-4010UD输出解码后的线性PCM多声道信号。在扬声器设定中不进行该设定。(BM: 低音管理)</p> <p>【2ch (双声道)】: 输出降低混频后的双声道LPCM信号。</p> <p>【Mute (静音)】: 不从HDMI输出音频。</p>
SA-CD Audio Out (SA-CD音频输出) 设定将超级音频CD的立体声/多区域音频输出至HDMI端子。	<p>On (开启): 输出超级音频CD的音频。</p> <p>Off (关闭): 不输出超级音频CD的音频。</p> <p> 超级音频CD的音频信号为44.1 kHz/16-bit Linear PCM (线性PCM) 输出。</p>
HDMI Control (HDMI控制) 可与HDMI控制支持设备协同操作本机。	<p>【Control (控制)】</p> <ul style="list-style-type: none"> • Off (关闭): 禁用HDMI控制功能。 • On (开启): 与连接至HDMI上的设备进行链接。 <p>【Power Off Control (电源关闭控制)】</p> <ul style="list-style-type: none"> • On (开启): 通过连至电视机上的链接将DBP-4010UD的电源设为候用模式。 • Off (关闭): 不通过连至电视机上的链接将DBP-4010UD的电源设为候用模式。 <p> 若要操作HDMI控制功能, DBP-4010UD或连接至DBP-4010UD上的HDMI兼容电视机需具备HDMI连接。</p> <ul style="list-style-type: none"> • 有关HDMI控制功能的详情, 请参阅“HDMI控制功能”(第47页)。 • 当在图形用户界面(GUI)菜单中将“DENON LINK Setup (天龙链路设置)” - “DENON LINK Mode (天龙链路模式)”设为“4th (第四代)”(第28页)时, 相连设备上的HDMI控制功能生效。 • 当“HDMI Control (HDMI控制)”设定已改变时, 请切断相连设备的电源, 然后重新开启。


注

如果在图形用户界面(GUI)菜单中将“DENON LINK Setup (天龙链路设置)” - “DENON LINK Mode (天龙链路模式)”设为“4th (第四代)”, 则将无法改变“HDMI Control (HDMI控制)” - “Control (控制)”设定。若要改变该设定, 请先将“DENON LINK Mode (天龙链路模式)”切换至“4th (第四代)”以外的设定, 然后再改变该设定。



Video Setup (视频设置) 默认设定带下划线。

根据所连接的电视机来设定视频输出信号。

设定项目	设定内容
TV Aspect (电视机宽高比) 设定电视机的屏幕类型和显示模式。	<p><u>16:9 Squeeze Auto (16:9 自动挤压)</u>: 输出至宽屏幕电视机。对于4:3的视频, 以不改变纵横比的形式显示在屏幕中央。*1</p> <p><u>WIDE (16:9) (宽屏幕 (16:9))</u>: 输出至宽屏幕电视机。</p> <p><u>4:3 PS (4:3 平移扫描)</u>: 输出至4:3电视机。对于宽屏幕的视频, 将裁剪图像的左右两边, 并以4:3的宽高比显示。*2</p> <p><u>4:3 LB (4:3 信箱格式)</u>: 输出至4:3电视机。显示宽屏幕视频的全部画面。</p>
Component Resolution (色差分辨率) *3 设定色差输出分辨率。	<p><u>480/576i</u>、<u>480/576P</u>、<u>720P</u>、<u>1080i</u>、<u>Source Direct (输入源直入)</u>: 采用视频输入源的分辨率输出视频。将1080p视频源转换为1080i。</p>
Progressive Mode (逐行扫描模式) 为视频源素材设定合适的逐行转换模式。	<p><u>Auto (自动)</u>: 检测视频素材的类型并自动切换模式。通常采用该设定。</p> <p><u>Video1 (视频1)</u>: 适于播放视频素材光碟。</p> <p><u>Video2 (视频2)</u>: 适于播放视频素材光碟或30帧的电影素材光碟。</p>
TV Active Area (电视机活动显示区域) 当模拟视频输出分辨率为480i/576i时, 设定水平显示范围。	<p><u>Full (全屏幕)</u>: 当连接了家用监视器时, 设为此项。</p> <p><u>Normal (标准)</u>: 当专业监视器上的视频同步受到干扰时, 使用该设定。</p> <p> 该设定对HDMI输出无效。</p>

*1: 该设定对视频和S视频输出无影响。

*2: 根据视频内容而定, 即使设为4:3 PS (4:3 平移扫描), 也可能以4:3 LB (4:3 信箱格式) 输出显示内容。

*3: 当从HDMI端子输出视频时, 将无视频信号从色差端子输出。




Audio Setup (音频设置)

默认设定带下划线。

设定扬声器或者要输出的音频。

在输出由DBP-4010UD解码后的模拟音频信号的情况下，进行与各声道设定及其它音频相关的设定。

设定项目	设定内容
7.1ch Audio Out (7.1声道音频输出) 为将模拟7.1声道音频输出至多声道放大器而进行音频设定。	<p>Multi Channel (多声道)</p> <p>为多声道播放而设定扬声器配置、声道电平和距离。</p> <p>2 Channel (双声道)</p> <p>从7.1声道音频输出端子的前置扬声器输出端子 (FL/FR) 输出经降低混频处理的多声道音频。当输出至电视机和双声道放大器时，进行该项设定。</p> <p>注</p> <p>无法为图形用户界面 (GUI) 菜单中的“HDMI Setup (HDMI 设置)” - “Audio Setup (音频设置)” - “Multi LPCM BM On (多声道线性PCM低音管理开启)” - “Speaker Configuration (扬声器配置)” (第23、24页) 选择“None (无)”或“No (否)”。</p> <p>Speaker Configuration (扬声器配置): 设定扬声器的配置。</p> <p>Front (前置): 设定前置扬声器大小。</p> <ul style="list-style-type: none"> Large (大): 使用低频播放能力充足的大型扬声器。 Small (小): 使用低频播放能力不足的小型扬声器。 <p>Center (中置): 设定是否使用中置扬声器以及中置扬声器的大小。</p> <ul style="list-style-type: none"> Large (大): 使用低频播放能力充足的大型扬声器。 Small (小): 使用低频播放能力不足的小型扬声器。 None (无): 未连接中置扬声器时选择该项。 <p>Subwoofer (低音炮): 设定是否使用低音炮。</p> <ul style="list-style-type: none"> Yes (是): 使用低音炮。 No (否): 未连接低音炮时选择该项。 <p>Surround (环绕): 设定是否使用环绕扬声器以及环绕扬声器的大小。</p> <ul style="list-style-type: none"> Large (大): 使用低频播放能力充足的大型扬声器。 Small (小): 使用低频播放能力不足的小型扬声器。 None (无): 未连接环绕扬声器时选择该项。

设定项目	设定内容
7.1ch Audio Out (7.1声道音频输出)	<p>[Surr. Back (后置环绕)]: 设定是否使用后置环绕扬声器、后置环绕扬声器的大小及数量。</p> <ul style="list-style-type: none"> Size (大小): 设定后置环绕扬声器的大小。 Large (大): 使用低频播放能力充足的大型扬声器。 Small (小): 使用低频播放能力不足的小型扬声器。 None (无): 未连接后置环绕扬声器时选择该项。 <ul style="list-style-type: none"> Number (数量): 设定后置环绕扬声器的数量。 1 spkr (1个扬声器): 仅使用一个后置环绕扬声器。从后置环绕L(左)端子输出后置环绕音频。 2 spkrs (2个扬声器): 使用两个后置环绕扬声器。 <p>[Crossover Freq. (交叉频率)]: 设定从低音炮输出的低频信号的上限。</p> <ul style="list-style-type: none"> 40Hz/60Hz/80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz: 以低于设定频率的频率从低音炮输出各个扬声器的低音信号。根据所使用扬声器的低频重现能力进行该项设定。 Advanced (高级): 设定要从相应扬声器的信号输出至低音炮的低频信号。 <p>Front (前置)、Center (中置)、Surround (环绕)、Surr. Back (后置环绕) 40Hz/60Hz/80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz LFE (低频音效)/LFE+Main (低频音效+主音效) 80Hz/90Hz/100Hz/110Hz/120Hz/150Hz/200Hz/250Hz</p> <p> 在图形用户界面 (GUI) 菜单中将“Audio Setup (音频设置)” - “7.1ch Audio Out (7.1声道音频输出)” - “Multi Channel (多声道)” - “Speaker Configuration (扬声器配置)” - “Subwoofer (低音炮)” 设为“<u>Yes (是)</u>” (第25页) 时，可选择“LFE (低频音效)”或“LFE+Main (低频音效+主音效)”。</p>



显示菜单
取消菜单




移动光标
(向上/向下/向左/向右)






确认设定





返回上一级菜单

设定项目	设定内容
7.1ch Audio Out (7.1声道音频输出)	<p>注</p> <ul style="list-style-type: none"> • 不根据扬声器的实际尺寸，而是根据基于“Crossover Freq. (交叉频率)”中所设定频率的低频重现能力来选择“Large (大)”或“Small (小)”。 • 如果在图形用户界面(GUI)菜单中的“Audio Setup (音频设置)” - “7.1ch Audio Out (7.1声道音频输出)” - “Multi Channel (多声道)” - “Speaker Configuration (扬声器配置)”项的设定已改变，则其它设定也将自动改变。 <p>【示例】 如果将“Front (前置)”设定为“Small (小)”并将“Subwoofer (低音炮)”设定为“Yes (是)”，则无法为“Center (中置)”、“Surround (环绕)”和“Surr. Back (后置环绕)”选择“Large (大)”。</p> <ul style="list-style-type: none"> • 从HDMI输出端子输出的音频信号(采样频率、声道数量)可能会受到可从位于另一端的设备输入的HDMI音频规格的限制。 <p>【示例】 如果位于另一端的设备上的HDMI音频规格为5.1声道，即使BDP-4010UD以7.1声道播放，也将自动输出5.1声道音频。此时，模拟音频输出也将变为5.1声道输出。</p> <p><input type="checkbox"/> Channel Level (声道电平)：当测试音调从各个扬声器输出时，将测试音调的音量设为相同。</p> <p>【Mode (模式)】：选择测试音调的输出方法。</p> <ul style="list-style-type: none"> • Auto (自动)：自动切换测试音调输出扬声器。 • Manual (手动)：手动切换测试音调输出扬声器。 <p>【Start (开始)】：开始输出测试音调。 Front L (前置左)/Center (中置)/Front R (前置右)/Surround R (环绕右)/Surr. Back R (后置环绕右)/Surr. Back L (后置环绕左)/Surround L (环绕左)/Subwoofer (低音炮)</p> <p>※ 当测试音调停止输出时，请按  键。</p> <p>【SW+10dB (低音炮+10dB)】：使低音炮的输出电平升高10dB。*</p> <ul style="list-style-type: none"> • Off (关闭)：不改变低音炮的输出电平。 • On (开启)：使低音炮的输出电平升高+10dB。 <p>*：无法将图形用户界面(GUI)菜单中的“HDMI Setup (HDMI设置)” - “Audio Setup (音频设置)” - “Multi LPCM BM On (多声道线性PCM低音管理开启)” - “Channel Level (声道电平)”设为“SW+10dB (低音炮+10dB)”。</p> <p>【Default (默认)】：将所有声道电平设定重设为出厂默认值。</p> <ul style="list-style-type: none"> • No (否)：不重设。 • Yes (是)：重设。

设定项目	设定内容
7.1ch Audio Out (7.1声道音频输出)	<p><input type="checkbox"/> Distance (距离)：设定视听位置和各扬声器之间的距离。</p> <p>【Meters (米)】或【Feet (英尺)】：设定距离的单位。</p> <p>【Step (步长)】：设定距离的最小改变量。 0.1m、0.01m、1ft、0.1ft</p> <p>【Default (默认)】：将所有距离设定重设为出厂默认值。</p> <p>Front L (前置左)/Front R (前置右)/Center (中置)/Subwoofer (低音炮)/Surround L (环绕左)/Surround R (环绕右)/Surr. Back L (环绕后置左)/Surr. Back R (环绕后置右)：选择想要设定的扬声器，然后设定距离。设定为最接近测量距离的值。 0~18.00m或0~60ft</p> <p></p> <ul style="list-style-type: none"> • 默认设定： 前置/中置/低音炮：3.6米(12英尺) Surround (环绕)/Surr. Back (环绕后置)3.0米(10英尺) • 将扬声器之间的距离差设为6.0米(20英尺)以下。 <p>注</p> <p>当将“BD Audio Mode (BD音频模式)”设为“HD Audio Output (HD音频输出)”( 第32页)时，在DTS-HD 192kHz音频播放过程中，“Distance (距离)”设定将被禁用。</p>
Subwoofer Mode (低音炮模式)	<p>LFE (低频音效)：将扬声器大小被设为“Small (小)”的声道的低频信号添加到低音炮信号中并输出该信号。</p> <p>LFE+Main (低频音效+主音效)：将所有声道的低频信号添加到低音炮信号中并输出该信号。</p>

设定项目	设定内容
Source Direct (输入源直入) 禁用扬声器和低音炮设定, 并按原样输出光碟音频。	Off (关闭): 启用扬声器和低音炮的设定。 On: 50kHz (开启: 50kHz): 按原样输出光碟内容。当播放超级音频CD时, 输出高达50kHz的音频信号。 On: 100kHz (开启: 100kHz): 按原样输出光碟内容。当播超级音频CD时, 输出高达100kHz的音频信号。
注 设为要使用的放大器的播放频带范围之内: 在“50kHz”或“100kHz”时为“On (开启)”。超出频带范围的设定将导致放大器损坏甚至着火。	 <ul style="list-style-type: none"> “On: 50kHz (开启: 50kHz)”或“On: 100kHz (开启: 100kHz)”设定可启用在为DTS推荐的所有声道上的全音域播放。(请注意, 这将导致低音炮和超级音频CD的音量分别升高5dB和15dB)。另外, 该设定还允许以全频率范围播放录制在所有声道上的DVD-Audio的6声道音源。此时, 请根据光碟的操作说明书进行模拟连接。 当设为“On: 50kHz (开启: 50kHz)”或“On: 100kHz (开启: 100kHz)”时, 所有扬声器大小设定都将被设为“Large (大)”, 且低音炮将被设为“Yes (是)”。 即使设为“On: 50kHz (开启: 50kHz)”或“On: 100kHz (开启: 100kHz)”, “Channel Level (声道电平)”和“Distance (距离)”设定仍可用。
Compression (压缩) 压缩Dolby TrueHD (杜比TrueHD)/ Dolby Digital (杜比数字)/ Dolby Digital Plus (杜比数字Plus) 音频的动态范围。在夜间或无法以高音量播放的其它时间, 该设定可以通过减少高电平声音和增加低电平声音的方式进行补偿。	Auto (自动): 自动压缩Dolby TrueHD (杜比TrueHD) 音频的动态范围。当播放Dolby TrueHD (杜比TrueHD) 以外的信号时, 不对声音进行压缩。 Off (关闭): 不进行动态范围压缩。 Low (低): 设定最低程度的动态范围压缩。 Middle (中): 设定中等程度的动态范围压缩。 High (高): 设定最高程度的动态范围压缩。
BD Effect Sound (BD音效) 设定在BD弹出菜单的操作过程中发出点击声和其它输出音效。	On (开启): 输出BD音效。 Off (关闭): 不输出BD音效。

设定项目	设定内容
BD Re-Encoder (BD重编码器) 设定从数字输出端子输出BD的 混合音频信号时的格式。	Auto (自动): 按照与音频格式相同的类型输出主音频。Dolby Digital (杜比数字)/Dolby Digital Plus (杜比数字Plus)/Dolby TrueHD (杜比TrueHD) 以Dolby Digital (杜比数字) 的格式输出, DTS/DTS-HD以DTS的格式输出, 而Linear PCM (线性PCM) 则以Linear PCM (线性PCM) 的格式输出。 Dolby Digital (杜比数字): 以Dolby Digital (杜比数字) 的格式输出至数字音频输出端子 (光学/同轴)。 DTS: 以DTS格式输出至数字音频输出端子 (光学/同轴)。  当将“BD Audio Mode (BD音频模式)”设为“Mix Audio Output (混合音频输出)” (☞ 第32页) 时有效。
Digital Out (数字输出) 设定数字音频输出的音频 信号。 有关各音频信号的详情, 请 参阅“从数字音频输出 (光 学/同轴) 端子输出的音频信 号” (☞ 第16页)。	Bitstream (比特流): 输出比特流信号。将Dolby TrueHD (杜比TrueHD) 和Dolby Digital Plus (杜比数字Plus) 转换为Dolby Digital (杜比数字) 的格式输出, 并将DTS-HD转换为DTS的格式输出。 PCM: 将降低混频后的音频信号输出至双声道LPCM (线性PCM)。 PCM Down Sampling (PCM降采样): 将采样频率超过48kHz的音频转换为48kHz双声道LPCM (线性PCM) 音频输出信号。  <ul style="list-style-type: none"> 当将CD等音频信号输出至CD录音机等数字录音设备时, 信号将被转换为PCM或PCM降采样格式。 当播放以线性PCM或PPCM (打包的PCM) 录制的光碟时, 无论设定如何, 都将输出线性PCM。
Downmix (降低混频) 设定用于将多声道音频信号 转换为双声道信号的方法。	Lt/Rt (Lt/Rt 复合双声道): 将信号转换为兼容Dolby Surround (杜比环绕) 的双声道音频信号用于输出。该设定对于DTS-HD、DTS Digital Surround (DTS数字环绕)、Dolby Digital Plus (杜比数字Plus) 和Dolby Digital (杜比数字) 音频信号有效。(如果所连接的影音放大器兼容Dolby Pro Logic (杜比定向逻辑), 则影音放大器使用环绕音频进行播放。) Stereo (立体声): 转换为双声道 (立体声) 音频后输出。 注 若要在播放BD时启用“Lt/Rt (Lt/Rt 复合双声道)”, 请将“BD Audio Mode (BD音频模式)”设为“HD Audio Output (HD音频输出)” (☞ 第32页)。






DENON LINK Setup (天龙链路设置)

默认设定带下划线。

设定从DENON LINK (天龙链路) 端子上输出的音频信号。

设定项目	设定内容
DENON LINK Mode (天龙链路模式) 设定DENON LINK (天龙链路) 的音频输出。	<p>[Off (关闭)]: 不使用DENON LINK (天龙链路)。</p> <p>[2nd (第二代)]: 使用DENON LINK 2nd Edition (天龙第二代链路) 输出数字音频。</p> <p>[3rd (第三代)]: 使用DENON LINK 3rd Edition (天龙第三代链路) 输出数字音频。</p> <p>[4th (第四代)]: 使用DENON LINK 4th Edition (天龙第四代链路) 输出数字音频。与无抖动连接兼容。有关详情, 请参阅“采用DENON LINK (天龙链路) 连接①进行无抖动连接”(第17页)。</p> <ul style="list-style-type: none"> • HDMI: 改善HDMI数字信号的抖动现象。 <p></p> <ul style="list-style-type: none"> • 当设为“4th (第四代)”时, 从相连设备进行HDMI控制的功能将变为有效。 • 当设为“4th (第四代)”且已建立无抖动连接时, 在播放BD过程中, 经无抖动功能校正后的音频将从HDMI端子输出。而当播放其它媒体时, 视频信号和音频信号将分别从HDMI端子和DENON LINK (天龙链路) 端子输出。 • 若要播放DENON LINK 4th (天龙链路第四代) 信号, 请使用HDMI电缆和DENON LINK (天龙链路) 电缆连接至兼容DENON LINK 4th (天龙第四代链路) 的影音放大器上。 • 关于影音放大器的第四代设定, 请参阅影音放大器的使用说明书。

□ 与DENON LINK (天龙链路) 设定和传输兼容的信号

针对所连接的影音放大器的各种DENON LINK (天龙链路) 版本的DENON LINK (天龙链路) 设定如下:

影音放大器的DENON LINK (天龙链路) 版本	DBP-4010UD的DENON LINK (天龙链路) 设定	媒体					
		BD (无抖动连接期间)	DVD-Video	DVD-Audio	超级音频CD	CD	SD
第二代 (端子旁边显示“S.E.”)	“2nd (第二代)”	×	○	○	×	○	○
第三代 (端子旁边显示“3rd (第三代)”)	“3rd (第三代)”	×	○	○	○	○	○
第四代 (端子旁边显示“4th (第四代)”)	“4th (第四代)”	○	○	○	○	○	○

注


进行DENON LINK (天龙链路) 连接时, 仅BD的音频信号将从HDMI端子输出。(当将“DENON LINK Mode (天龙链路模式)”设为“2nd (第二代)”且“HDMI Setup (HDMI设置)”-“SA-CD Audio Out (SA-CD音频输出)” (第24页) 设为“On (开启)”时, 超级音频CD的音频信号将从HDMI端子输出。)



Pure Direct Setup (纯直入设置)

默认设定带下划线。

在Pure Direct (纯直入) 模式期间, 进行与数字音频和视频输出模式以及显示信息相关的设定。可注册两种设定类型。

设定项目	设定内容
User Preset 1 (用户预设1) / User Preset 2 (用户预设2) 该项为通过(第55页)选择的“User Preset 1 (用户预设1)”或“User Preset 2 (用户预设2)”设定操作模式。 将各项均设为“Off (关闭)”后, 即可从关联电路中输出无干扰的高质量模拟信号。	<p>[Digital Out (数字输出)]: 设定是否将信号输出至数字音频输出端子。</p> <ul style="list-style-type: none"> • On (开启): 启用数字音频输出。 • Off (关闭): 禁用数字音频输出。 <p>[Video Out (视频输出)]: 设定视频输出选项。</p> <ul style="list-style-type: none"> • On (开启): 启用视频输出。该设定还将禁用HDMI端子的音频输出。 • Off (关闭): 禁用视频输出。 <p>[Display (显示)]: 设定前面板显示屏的选项。</p> <ul style="list-style-type: none"> • On (开启): 打开显示。 • Off (关闭): 关闭显示。 <p></p> <p>有关详情, 请参阅“播放高质量音频 (纯直入功能)” (第38页)。</p>

遥控操作组键

SETUP (S) : 显示菜单
: 取消菜单



: 移动光标
(向上/向下/向左/向右)

ENTER (R) : 确认设定

RETURN (R) : 返回上一级菜单



Ratings (等级)

默认设定带下划线。

设定BD或DVD家长锁定，或者显示DivX®注册代码。

设定项目	设定内容
Password (密码) 为BD和DVD设定变更家长控制等级和家长控制国家或地区代码的密码。	Change (变更): 变更密码。请用 0 ~ 9 键输入密码，然后按 ENTER 键确认。 默认设定为“0000”。
BD Rating Level (BD等级) 为播放BD设定家长等级。	Level 0~254 (0~254级): 设定允许播放媒体的观众年龄。以相应的家长控制来限制光碟的播放。 No Limit (无限制): 不限制BD的播放。
DVD Rating Level (DVD等级) 为播放DVD设定家长等级。	Level 1~8 (1~8级): 为播放DVD设定家长等级。 Lock All (全部锁定): 限制所有DVD的播放。 No Limit (无限制): 不限制DVD的播放。
Rating Country Code (分级国家或地区代码) 设定标准的国家或地区家长控制。 应用所设定国家或地区的家长等级。	Argentina (阿根廷) / Australia (澳大利亚) / Austria (奥地利) / Belgium (比利时) / Brazil (巴西) / Canada (加拿大) / Chile (智利) / <u>China (中国)</u> / Denmark (丹麦) / Finland (芬兰) / France (法国) / Germany (德国) / Hong Kong (香港地区) / India (印度) / Indonesia (印度尼西亚) / Italy (意大利) / Japan (日本) / Korea, Republic of (韩国) / Malaysia (马来西亚) / Mexico (墨西哥) / Netherlands (荷兰) / New Zealand (新西兰) / Norway (挪威) / Pakistan (巴基斯坦) / Philippines (菲律宾) / Portugal (葡萄牙) / Russian Federation (俄罗斯) / Singapore (新加坡) / Spain (西班牙) / Switzerland (瑞士) / Sweden (瑞典) / Taiwan (台湾地区) / Thailand (泰国) / United Kingdom (英国) / United States (美国) / Colombia (哥伦比亚) / Greece (希腊) / Ireland (冰岛) / Luxembourg (卢森堡) / Poland (波兰) Others (其它): 输入国家或地区代码。请参阅“国家或地区代码表”(第50页)，并用虚拟键盘上的 键和 ENTER 键输入国家或地区代码。
DivX Registration (DivX注册) 显示DivX®注册代码。	Show Code (显示代码): 显示DivX®注册代码。



Network Setup (网络设置)

默认设定带下划线。

设定为连接至因特网。

通过将本机连接至因特网，即可使用带BD-LIVE功能的光碟(第36页)。

若要获得对DBP-4010UD的更新支持，可从本公司的网站下载最新的固件。

请事先根据“连接至网络”(第19页)进行网络连接。

设定项目	设定内容
DHCP 设定自动或手动进行网络配置的方法。 由于出厂默认设定为“On(开启)”，因此如果将宽带路由器的DHCP服务器设定为“Enable(启用)”，则无需设定IP地址等项目。 必要时请配置代理服务器。	【On(开启)】: 通过DHCP功能自动配置网络。 【Off(关闭)】: 当连接至不具备DHCP功能的网络时，请手动配置以下网络设定。关于设定详情，请向供应商或网络管理员确认。用 0 ~ 9 键输入某个值，然后按 ENTER 键确认。 <ul style="list-style-type: none"> • IP Address (BD-LIVE, Update) (IP地址(BD-LIVE、更新)): 为BD-LIVE或固件更新手动配置IP地址。 • IP Address (Control) (IP地址(控制)): 该配置项供将来扩展之用。通常无需配置该项。 • Subnet Mask (子网掩码): 如果将xDSL调制解调器或终端适配器直接连接至DBP-4010UD，请输入子网掩码，该子网掩码通常由供应商在文档中提供。通常设为“255.255.255.0”。 • Default Gateway (默认网关): 如果将设备连接至网关(路由器)，请输入设备的IP地址。 • Primary DNS (首选DNS): 输入首选DNS。 • Secondary DNS (备用DNS): 输入备用DNS。
Proxy (代理服务器) 设定为通过代理服务器连接至因特网。	【Off(关闭)】 不使用代理服务器。 【On (Address) (开启(地址))】 设定为通过代理服务器连接至因特网。使用地址指定代理服务器。用 0 ~ 9 键输入地址，然后按 ENTER 键确认。 <ul style="list-style-type: none"> • Port (端口): 用 0 ~ 9 键输入端口号，然后按 ENTER 键确认。 【On (Name) (开启(名称))】 设定为通过代理服务器连接至因特网。使用域名指定代理服务器。用虚拟键盘上的 键和 ENTER 键输入域名。 <ul style="list-style-type: none"> • Port (端口): 用 0 ~ 9 键输入端口号，然后按 ENTER 键确认。



显示菜单
取消菜单



移动光标
(向上/向下/向左/向右)



确认设定



返回上一级菜单

设定项目	设定内容
IP Address (IP地址)	BD-LIVE, Firmware Update (BD-LIVE、固件更新): 显示BD-LIVE或固件更新的IP地址。 Control (控制): 显示用于将来扩展的IP地址。
MAC Address (MAC地址)	BD-LIVE, Firmware Update (BD-LIVE、固件更新): 显示BD-LIVE或固件更新的MAC地址。 Control (控制): 显示用于将来扩展的MAC地址。



Display Setup (显示屏设置) 默认设定带下划线。

设定与显示相关的项目。

设定项目	设定内容
Screen Saver (屏保) 设定屏保。	Off (关闭): 不使用屏保。 On (开启): 当停止或暂停状态持续三分钟左右时, 将激活屏保功能。在播放CD、超级音频CD或音频文件的过程中, 当长达三分钟左右的时间未执行操作时, 也将激活屏保功能。
Wallpaper (壁纸) 设定在停止播放时显示的背景。	Picture (图片): 显示DENON (天龙) 标识。 Black (黑色): 将背景设为黑色。 Gray (灰色): 将背景设为灰色。 Blue (蓝色): 将背景设为蓝色。
Still Mode (静像模式) 设定暂停期间的图像质量。	Automatic (自动): 根据静止图像信息, 使用“Field (场)”或“Frame (帧)”自动显示。 Field (场): 当设定了“Automatic (自动)”图像显示后出现图像模糊时, 设为该项。 Frame (帧): 设定为以高分辨率显示静止图像。
Slide Show Time (幻灯片放映时间) 设定JPEG文件的显示时间。	3 ~ 5 ~ 100sec (秒): 该项设定在幻灯片播放期间JPEG文件每帧的显示时间。
Temporary Display (临时显示) 当通过调光器控制 (☞ 第47页) 或纯直入功能 (☞ 第38页) 将显示设为“Off (关闭)”时, 该项可将显示屏设为临时显示接收到的操作。	Off (关闭): 不临时显示操作。 On (开启): 临时显示操作。
Captions (字幕) 该设定将字幕信号输出至隐藏的字幕解码器(另售)。	Off (关闭): 不输出隐藏的字幕信号。 On (开启): 输出隐藏的字幕信号。



Other Setup (其它设置)

默认设定带下划线。

设定其它项目。

设定项目	设定内容
Auto Power Mode (自动电源模式) 该设定可将电源自动设为候用状态。	Off (关闭) : 不使用自动电源模式。 On (开启) : 如果以下任一状态持续30分钟左右, 则该设定自动将电源设为候用状态。 • 未装入光碟 • 播放已停止 • 由于断点续播功能而停止播放
Power Saving (节电) 设定候用期间的节电模式。	Power Saving Standby (节电候用) : 这是最低功耗模式。候用期间将无法通过HDMI控制或RS-232C接受操作。 Normal Standby (常规候用) : 候用期间可通过RS-232C接受操作。此时的功耗略高。 Quick Start Mode (快速启动模式) : 启动速度较快, 但候用期间的功耗较高。此时可通过HDMI控制或RS-232C接受操作。
Remote Control Setting (Main unit side) (遥控器设定 (主机侧)) 设定遥控器。	【Remote ID (遥控器ID)】 当附近有其它DENON BD播放机时, 用于切换DBP-4010UD的遥控器ID代码。 • DENON 1 : 将遥控器电池匣中的开关也设为“1”(“遥控器设定 (遥控器侧)”) (第7页)。 • DENON 2 : 将遥控器电池匣中的开关也设为“2”(“遥控器设定 (遥控器侧)”) (第7页)。 【Receive Legacy Remocon (接收遗留遥控)】 设定是否接受DENON DVD播放机或其它设备的遥控信号。 • ON (开启) : 接受 • Off (关闭) : 不接受
BD Data Utility (BD数据实用程序) 删除SD存储卡上的数据, 并对存储卡进行初始化。	BD Data Erase (BD数据删除) : 同时删除内部记忆和SD存储卡中储存的数据。 Initialize SD Card (初始化SD存储卡) : 对将要用于双影音同步解码和BD-LIVE功能的SD存储卡进行初始化。 注 • 当电源处于候用状态时插入和拔出SD存储卡。 如果在电源开启时插入SD存储卡, 有可能存在存储卡无法读取或者BD无法播放的情况。 • 用于双影音同步解码功能的SD存储卡必须具备1GB或更大的容量。另外还必须在DBP-4010UD上对SD存储卡进行初始化。 • 该操作将删除所有数据。插入了包含MP3或JPEG数据的SD存储卡时, 请勿执行该操作。 • 当执行“BD Data Erase (BD数据删除)”或“Initialize SD Card (初始化SD存储卡)”时, 请从光碟托盘中取出光碟。

设定项目	设定内容
Initialize (初始化) 将包括音频模式和画面质量在内的所有设定变为默认设定。	Cancel (取消) : 不执行初始化。 OK (确定) : 执行初始化。
Firmware Update (固件更新) 通过互联网更新本机的固件。	Check for Update (检查更新) : 检查是否存在最新的固件。还可查看完成一次更新大致所需的时间。 Start (开始) : 开始固件更新。 当更新开始时, 电源指示灯以红色点亮, 且图形用户界面(GUI)画面关闭。在更新过程中, 显示屏上将显示大致的剩余时间。更新完成时, 电源指示灯以绿色点亮, 且恢复至正常状态。
Information (信息) 显示本产品使用的IPA字体的许可证。	【Font License (字体许可证)】 Japanese (Original) (日语 (初始)) : 以日语显示。 本产品的图形用户界面(GUI)菜单画面中使用的字体符合IPA字体规格。有关IPA字体许可证协议, 请参见以下网址: http://ipafont.ipa.go.jp/enduser_license.html

“Firmware Update (固件更新)”的注意事项
<ul style="list-style-type: none"> 为了使用这些功能, 必须具备实现宽带因特网连接的正确系统要求和设定(第19、29页)。 更新完成前请勿断开电源。 关于“Firmware Update (固件更新)”功能的信息将在每次相关计划确定时公布在DENON网站上。 即使采用宽带因特网连接, 更新步骤仍需要约1小时才可完成。 一旦开始更新, 将无法在DBP-4010UD上进行正常操作, 直至更新完成。另外, DBP-4010UD的图形用户界面(GUI)菜单上的设定项或者图像调节的设定项也可能被初始化。 如果插入了光碟, 请在执行“Firmware Update (固件更新)”前将其从光碟托盘中取出。



显示菜单
取消菜单



移动光标
(向上/向下/向左/向右)



确认设定



返回上一级菜单

多种设定

可设定音频模式及更改播放文件。

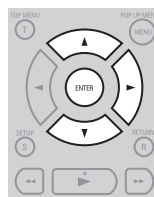
可在播放过程中设定多种模式。设定菜单显示在画面顶部。

1 按 **MODE** 键。
显示当前可设定的菜单。



※ 显示内容将随播放的媒体而发生变化。

2 用 **←** **→** 键选择设定项目，然后按 **ENTER** 或 **OK** 键。



3 用 **←** **→** 键选择设定，用 **ENTER** 键改变设定。


设定音频模式

默认设定带下划线。

设定项目	设定内容
BD Audio Mode (BD音频模式) 切换BD音频播放模式。	<p><u>HD Audio Output</u> (HD音频输出)：可通过输出Dolby TrueHD (杜比TrueHD)、Dolby Digital Plus (杜比数字Plus)或DTS-HD等高质量信号的高音质比特流来观看。无法收听互动音频或二次处理音频。</p> <p><u>Mix Audio Output</u> (混合音频输出)：输出由原始音频/互动音频/二次处理音频组成的混合音频。</p> <p>注</p> <p>当“BD Audio Mode (BD音频模式)”设为“Mix Audio Output (混合音频输出)”时，DTS-HD 192kHz音频将被解码为96kHz。</p>

改变播放文件的显示

默认设定带下划线。

设定项目	设定内容
File filter (文件过滤器) 从混有各类文件的光碟中选择想要播放的文件格式。	<p><u>All</u> (全部)：播放MP3/WMA/AAC/LPCM/JPEG/DivX®文件。</p> <p>Audio (音频)：播放MP3/WMA/AAC/LPCM文件。</p> <p>Picture (图片)：播放JPEG文件。</p> <p>Video (视频)：播放DivX®文件。</p> <p>Audio & Picture (视频和图片)：播放MP3/WMA/AAC/LPCM/JPEG文件。</p> <p> 该操作仅在播放停止时有效。</p>

进行其它设定

默认设定带下划线。

设定项目	设定内容
Secondary Video (PIP) (子视频(画中画))	<p><u>Off</u> (关闭)：不显示子视频(画中画)。</p> <p>1/X*：显示第一个子视频。</p> <p>2/X*：显示第二个子视频。</p> <p>X/X*：显示第X个子视频。</p> <p>*：“X”表示录制的子视频数量，该数量因光碟而异(“播放双影音同步解码” 第36页)</p>
Audio/Video Sync (音频/视频同步) 对视频-音频播放不同步的现象进行校正。	<p><u>HDMI/Component</u> (HDMI/色差)：音频输出与HDMI端子或色差端子的视频输出同步。</p> <p>S-Video/Video (S视频/视频)：音频输出与S视频端子或视频端子的视频输出同步。</p>
Audio Delay Adjust (音频延时调节) 观看视频时，手动调节延迟音频输出的时间。	<p><u>0~200msec</u> (毫秒)：使用该功能手动调节音频输出的延迟时间。</p>
Vertical Stretch (垂直拉伸) 在垂直方向上拉伸宽银幕电影视频。	<p><u>Off</u> (关闭)：显示未经修改的源视频信号。该选项通常应设为“Off(关闭)”。</p> <p>On (开启)：当使用投影机 and 变形镜头观看宽银幕电影视频时设定为该项。该设定将在垂直方向上拉伸图片，使顶部和底部的黑色部分消失。</p> <p>注</p> <p>该选项对视频和S视频输出无效。</p>

调节图像质量(图像控制)

可根据个人喜好来调节图像质量。

最多可在记忆中保存5个设定值。

1 按 **MEMO** 键。
显示当前设定状态。

2 用 **MEMO** 键选择想要的记忆数量 (“Memory 1(记忆1)” ~ “Memory 5(记忆5)”), 然后按 **ENTER** 键。



3 用 **MEMO** 键选择想要更改的项目。



4 用 **MEMO** 键更改设定。

※ 有关可设定项目的内容, 请参阅右表。

完成图像调节时

在图像调节过程中按 **MEMO** 键。

在不使用图像调节功能的情况下输出标准图像质量

按 **MEMO** 和 **MEMO** 键选择 “Standard(标准)”, 然后按 **ENTER** 键。



即使电源切断, 图像调节设定值也将保留在记忆中。



设定项目	设定内容	默认值
DNR(数字降噪) 降低整个图像的噪讯。	0 ~ +3	0
Contrast(对比度) 调节图像对比度。	-6 ~ +6	0
Brightness(亮度) 调节图像亮度。	0 ~ +12	0
Enhancer(增强器)*3 加强图像轮廓。	0 ~ +11	0
Gamma Correction(伽马校正)*1 对视频亮度进行详细调节。	G0 ~ 9 G0 = 24 / G1 = 32 G2 = 48 / G3 = 64 G4 = 80 / G5 = 96 G6 = 128 / G7 = 160 G8 = 192 / G9 = 224	
Sharpness(medium range)(清晰度(中频范围))*1、3 调节中频范围内图像的清晰度。	-6 ~ +6	0
Sharpness(high range)(清晰度(高频范围))*3 调节高频范围内图像的清晰度。	-6 ~ +6	0
Hue(色调)*4 调节绿色和红色的色彩平衡。	-6 ~ +6	0
White Level(白色电平) 调节白色电平。	-5 ~ +5	0
Black Level(黑色电平)*3 调节黑色电平。	-5 ~ +5	0
Chroma Level(色度电平) 调节色密度。	-6 ~ +6	0
Setup Level(设置电平)*2 调节图像的黑色区域。	0 IRE 7.5 IRE	0 IRE
H. Position(水平位置)*3 调节左/右位置。	-7 ~ +7	0
V. Position(垂直位置)*3 调节上/下位置。	-7 ~ +7	0

*1: 对于HDMI输出, 不提供该项设定。

*2: 仅对来自视频输出端子、S视频输出端子和色差视频输出端子的480i视频信号有效。

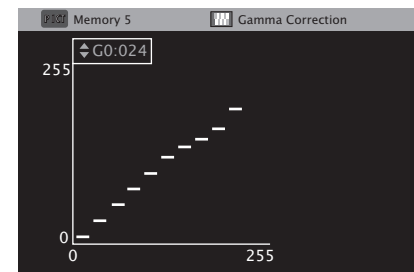
*3: 该项对视频和S视频输出无效。

*4: 播放PAL视频时, 该项对视频和S视频输出无效。

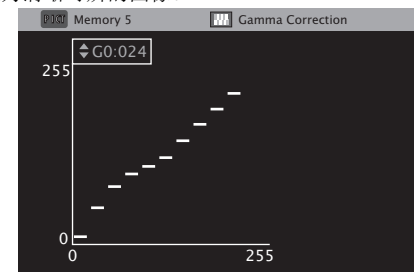
关于伽马校正

选择 “Gamma Correction(伽马校正)” 再按 **ENTER** 键之后, 即可用 **MEMO** 键更改设定。

在下图所示的例子中, 横轴表示光碟上录制的图像的亮度等级。纵轴表示由DBP-4010UD输出的图像的亮度。



• 当调节光碟端明亮部分的输出侧上的亮度时, 通常难以看见的明亮部分将变为清晰可辨的图像。



• 当调节光碟端阴暗部分的输出侧上的亮度时, 通常难以看见的阴暗部分将变为清晰可辨的图像。

在进行伽马校正后恢复初始值

请在显示有图形时按 **CLEAR** 键。



光碟播放

- ❑ 播放BD和DVD-Video (☞ 第36页)
- ❑ 播放超级音频CD (☞ 第37页)
- ❑ 播放CD (☞ 第37页)
- ❑ 播放DVD-Audio (☞ 第37、38页)
- ❑ 播放高质量音频 (☞ 第38页)

文件播放

- ❑ 文件播放 (☞ 第38~40页)

在播放期间允许进行的操作 (☞ 第41页)

注

- 在操作过程中，电视机屏幕的右上角可能会出现⊘ (禁止标记)。这表示当前执行的操作被禁止。
- 根据光碟而定，某些操作可能与本手册中所述不同。详情请查阅各光碟的使用说明书。
- 在播放双层光碟的过程中，图像可能会出现短暂的停滞。从第1层切换到第2层时，将出现这种情况。这不是故障。

介绍

播放光碟前

1 开启放大器和电视机的电源。
将电视机和放大器功能设为DBP-4010UD输入。

2 开启DBP-4010UD的电源。

※ 播放双影音同步解码时，请在开启DBP-4010UD的电源之前插入容量至少为1GB、且经DBP-4010UD初始化的SD存储卡。

3 按 **SOURCE** 键将播放媒体模式设为“DISC MODE (光碟模式)”。

4 插入光碟。

- 按 **OPEN/CLOSE** 键打开/关闭光碟托盘。
- 将光碟以想要播放的一面朝下插入。



播放SD存储卡前

1 开启放大器和电视机的电源。
将电视机和放大器功能设为DBP-4010UD输入。

2 插入SD存储卡。
将SD存储卡以标签面朝上并按照箭头所示方向插入 (☞ 第6、8页)。

3 开启DBP-4010UD的电源。

4 按 **SOURCE** 键将播放媒体模式设为“SD CARD CODE (SD存储卡模式)”。



即使将电源设成了候用模式，播放媒体模式设定仍将保留在记忆中。

关于播放信息

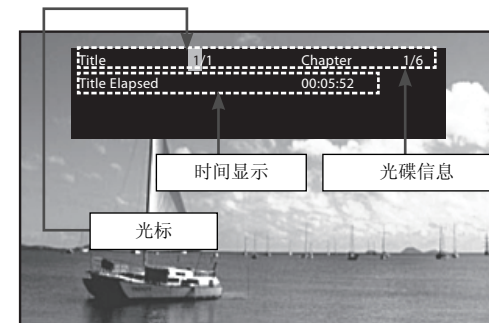
每按一次 **DISPLAY** 键，所显示的播放信息将在信息栏和媒体播放器画面之间切换。
若要清除显示，请按 **DISPLAY** 直至显示消失。



※ 所显示的内容将因播放的媒体而有所不同。
另外，在播放和停止期间显示的信息也会有所不同。

信息栏显示

BD DVD-A DVD-V DVD DivX



※ 显示在画面顶部的框内。
(见下一页。)

❑ 光碟信息显示

- 标题 正在播放的标题/标题总数
- 章节 正在播放的章节/章节总数
- 分组 正在播放的分组/分组总数
- 曲目 正在播放的曲目/曲目总数

❑ 时间显示

- 标题的已播放时间
- 标题的剩余播放时间
- 章节的已播放时间
- 章节的剩余播放时间
- 分组的已播放时间
- 分组的剩余播放时间
- 曲目的已播放时间
- 曲目的剩余播放时间

❑ HDMI 输出信号显示

- 视频信息 视频输出信号格式/分辨率
- 音频信息 正在输出的音频格式
- 最大声道数 所连接的设备可接收的音频声道数量

使用信息栏进行搜索

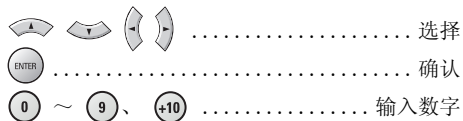
在橙色光标区域内输入想要搜索的编号后，将对该编号位置进行搜索。共有4种搜索模式，即“标题搜索”、“章节搜索”、“分组搜索”和“曲目搜索”。

1 用 键将光标移至想要搜索的项目处。

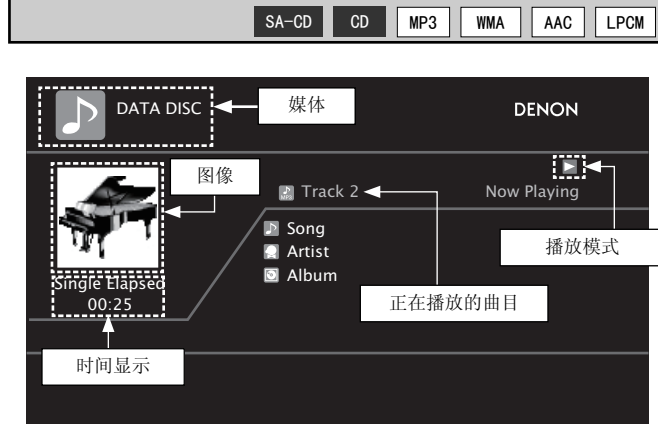
2 用 0 ~ 9 和 +10 键输入一个值。

3 按 ENTER 键。
将执行搜索并开始播放。

※ 如果光碟上无所输入的编号信息，则当前的播放显示将再次出现。



媒体播放器显示



❑ 光碟信息显示



有关时间显示和HDMI输出信号显示，请参阅“信息栏显示”（第34页）。

1 播放准备工作（“播放光碟前” 第34页）。

2 在光碟菜单上进行各项播放设定。

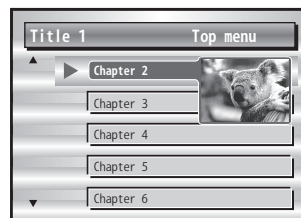
选择 选择
播放 播放



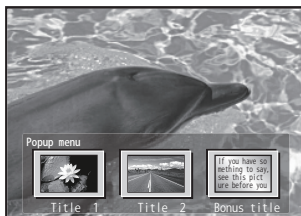
- 可在光碟菜单上进行以下设定。（可设定的项目因光碟而异。）
 - 字幕语言
 - 音频语言
 - 音频格式等
- 播放BD混合光碟时，可通过按 **DISC LAYER** 键切换至“BD层”或“DVD层”。
- 在DVD-Video播放过程中，按 **TOP MENU** 或 **POP UP MENU** 键可显示菜单。
- 如果有后续菜单，按 **DISC LAYER** 键可进入后续菜单。



【示例】光碟菜单



【示例】顶部菜单



【示例】弹出菜单

播放某些BD光碟时，可从弹出菜单中选择标题和章节。

3 从用于播放的顶部菜单中选择播放标题或章节。

选择 选择
播放 播放
0 ~ 9、+10 播放

享受BD-LIVE功能

- 可与BD-LIVE一起使用的功能因光碟而异。有关这些功能及其操作方法的详细说明，请参阅特定光碟的屏幕显示和说明。
- 若要使用BD-LIVE功能，必须将SD存储卡插入DBP-4010UD以保存相关下载内容。请使用1GB或更大容量的SD存储卡。另外还必须在DBP-4010UD上对SD存储卡进行格式化。
- 在播放兼容BD-LIVE的光碟时，请勿从DBP-4010UD上拔出SD存储卡。

播放兼容双影音同步解码的BD-Video

- 对于兼容双影音同步解码(画中画)的光碟，除了存储在光碟上的主视频之外，还可播放视频导演的评注、同时进展的插曲故事以及诸如备选镜头视角之类的子视频。
- 某些BD光碟将SD存储卡用作双影音同步解码播放的录制存储器。请在DBP-4010UD处于候用状态时预先插入SD存储卡。
- 播放方法等要素取决于光碟本身，且因光碟而异。请参阅相应光碟的操作指南。

播放双影音同步解码

按 **MODE** 键选择想要播放的子视频显示方式。

Off (关闭) → 1/X → 2/X → X/X

【可选项目】

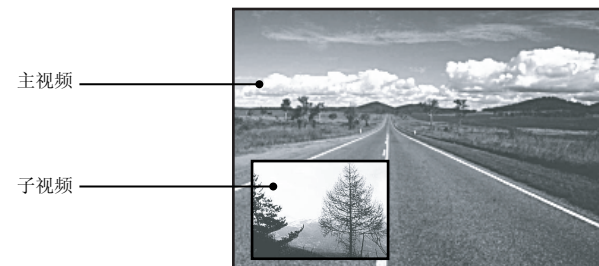
Off (关闭)：不显示子视频。

1/X*：显示第一个子视频。

2/X*：显示第二个子视频。

X/X*：显示第X个子视频。

*：“X”表示已录制的子视频数量，该数量因光碟而异。



【示例】双影音同步解码

注

- 当电源处于候用状态时插入和拔出SD存储卡。如果在电源开启时插入SD存储卡，则SD存储卡可能会无法读取。
- 用于BD-LIVE和双影音同步解码功能的SD存储卡必须具备1GB或更大的容量。另外，SD存储卡还必须在DBP-4010UD上进行初始化（第31页）。
- 若要使用BD-LIVE功能，请将DBP-4010UD连至互联网，并根据需要进行以下设定：
连接方法 “连接至网络”（第19页）
设置 “网络设置”（第29页）
- 根据网络环境而定，在某些情况下，连接至网络可能较费时或者无法进行网络连接。
- 去除SD存储卡的写保护。

播放超级音频CD

SA-CD

1 播放准备工作 (“播放光碟前” 第34页)。

2 用 **[DISC LAYER]** 键选择播放区域和层。

Multi (多声道): 播放HD层的多声道区域。

Stereo (立体声): 播放HD层的双声道区域。

CD: 播放CD层。

※ 按 **[▶]** 键播放所选的区域/层。



查看文字或播放时间显示时
请参阅“媒体播放器显示” (第35页)。



- 如果播放光碟时发现所选区域或层不存在, 请按照“Multi (多声道)”、“Stereo (立体声)”、“CD”的顺序选择播放区域或层。
- 即使电源切断, 在 **[DISC LAYER]** 中所选的区域/层仍将保留在记忆中。

播放CD

CD

1 播放准备工作 (“播放光碟前” 第34页)。

2 按 **[▶]** 键。
播放开始。



查看播放时间显示时
请参阅“媒体播放器显示” (第35页)。

播放DVD-Audio

DVD-A

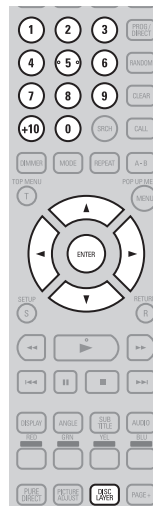
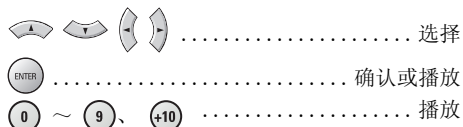
1 播放准备工作 (“播放光碟前” 第34页)。

2 用 **[DISC LAYER]** 键选择要播放的部分。

Audio (音频): 播放音频部分。

Video (视频): 播放视频部分。

3 如果提供了顶部菜单, 请从该菜单中选择要播放的分组和曲目, 然后播放。



查看文字或播放时间显示时
请参阅“信息栏显示” (第34页)。

更改分组/曲目

1 停止或播放期间, 请用 **[SRCH]** 键选择搜索模式。
搜索模式显示在屏幕右上角。

※ 每按一次 **[SRCH]** 键, 搜索模式都将改变。

分组搜索模式 ← → 曲目搜索模式

2 从顶部菜单中选择要播放的分组和曲目, 然后播放。

[0] ~ **[9]**、**[+10]** **[ENTER]**

将播放所按下的编号对应的分组或曲目

※ 有关输入编号的说明, 请参阅“使用搜索模式查找特定的部分” (第42页)。



通过此项操作所选的搜索模式将一直保留在记忆中, 直到进入候用状态或者光碟托盘打开为止。

隐藏曲目分组的播放

DVD-Audio可能包含一个隐藏曲目分组，可在输入密码后播放。

1 停止期间，用 **[SRCH]** 键选择“Group (分组)”。

2 用 **[0]~[9]**、**[+10]** 键输入隐藏曲目分组号。



3 用 **[0]~[9]** 键输入一串4位数密码，然后按 **[ENTER]** 键。
将从所选分组的第1首曲目开始播放。

※ 密码也可在菜单画面上输入，请按屏幕上的说明操作。



❑ 输入了错误的密码时

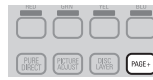
按 **[CLEAR]** 键清除已输入的数字，然后输入正确的数字。



选择静止图像

对于包含静止图像的DVD-Audio，可选择在播放期间显示的图像。

播放期间按 **[PAGE-]** 键。
将显示下一幅静止图像。



播放高质量音频 (纯直入功能)



该功能允许通过停止视频信号等的输出、而仅输出模拟音频信号的方式来播放高质量音频。

在停止期间按 **[PURE DIRECT]** 键，然后选择纯直入模式。



Off (关闭) : 关闭纯直入功能。

On (开启) : 关闭数字信号输出、视频信号输出和显示画面上的显示。

User Preset1 (用户预设1) : 以已注册的纯直入设定来运行。(“纯直入设置”第28页)

User Preset2 (用户预设2)



- 图形用户界面(GUI)菜单显示时，无法使用 **[PURE DIRECT]** 键。
- 当纯直入模式设为“On(开启)”且主机显示设为关闭时，电源指示灯以外的指示灯将熄灭。
- 当DBP-4010UD进入候用模式时，纯直入模式的设定将返回至“Off(关闭)”。

文件播放

❑ 关于文件显示

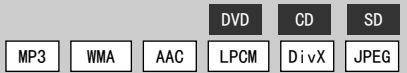
DBP-4010UD可显示的文件夹和文件的数量限制如下：
(限制的数量含根目录。)

- 文件夹目录的层数..... 8层
- 文件夹数量..... 999
- 文件数量..... 9999
- 文字显示的字符数量
 - 文件名、文件夹名称..... 32
 - 艺术家名称、标题等..... 60

※ 长度超过一行的文字将滚动显示。

※ 如果文件名、标题、艺术家名称或专辑标题中包含了菜单画面所不支持的字符，这些字符将无法正确显示。

文件播放



1 开启DBP-4010UD的电源。

2 按 **[SOURCE]** 键，然后选择播放媒体的模式。

- DISC MODE (光碟模式)**：播放光碟
- SD CARD MODE (SD存储卡模式)**：播放SD存储卡

3 载入媒体。

- 将出现文件浏览画面。
- ※ 有关载入媒体的方法，请参阅“插入光碟”和“插入SD存储卡”（[第6页](#)）
- ※ 如果文件浏览画面未出现，请按 **[MENU]** 键。

4 选择要播放的数据所在的文件夹，然后按 **[ENTER]** 键。

- [UP]**、**[DOWN]**、**[LEFT]**、**[RIGHT]**、**[ENTER]** 显示画面选择
- [RETURN]** 至上一层文件夹
- [ENTER]** 至下一层文件夹
- [TOP MENU]** 至顶层文件夹

5 按 **[PROG/DIRECT]** 键选择播放模式。

- All Track Mode (所有曲目模式)**：播放媒体中的所有文件。
- Folder Mode (文件夹模式)**：播放所选文件夹中的文件。播放模式指示中将显示文件夹图标。

6 选择和播放文件。

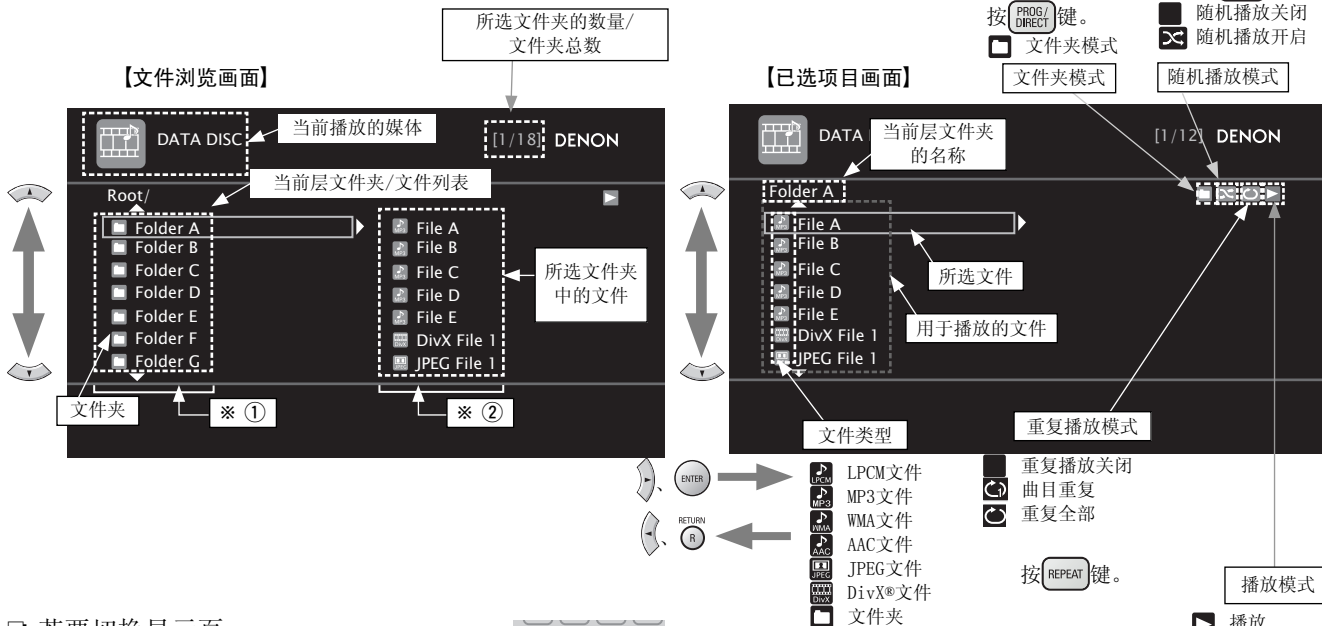
- [UP]**、**[DOWN]** 选择
- [ENTER]**、**[PLAY]** 确认或播放



播放期间的操作因正在播放的文件而异。请参阅“播放期间的操作”（[第40页](#)）。

关于文件夹和文件显示

□ 文件浏览画面



- 若要切换显示页
按 **[RIGHT]** 键显示下一页。
按 **[LEFT]** 键显示上一页。

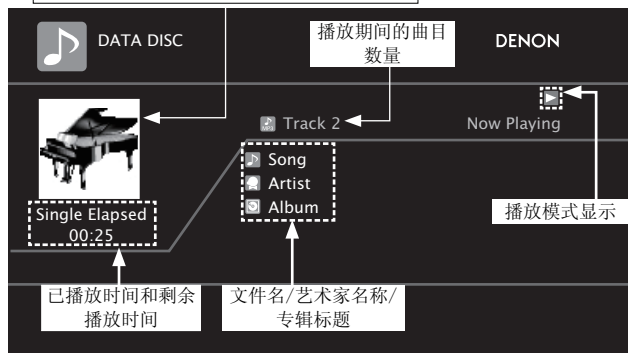


有关可播放的媒体和文件，请参阅“可播放的媒体”（[第3、4页](#)）。

有关播放期间的屏幕显示

音频文件播放期间的显示

显示正在播放的文件中录制的封面艺术画等的JPEG图像数据。

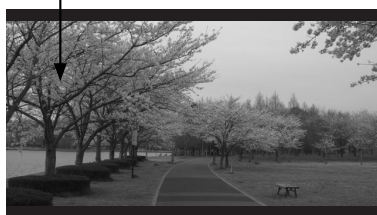


注

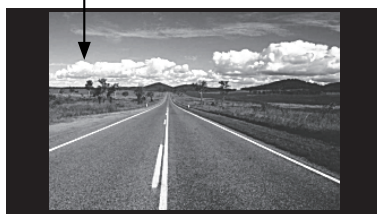
在播放MP3和AAC音频文件时，可显示正在播放的文件中录制的封面艺术画等的JPEG图像数据。

DivX®文件和JPEG文件的显示

显示播放中的视频



显示播放中的静止图像



播放期间的操作

音频文件和DivX®文件的操作

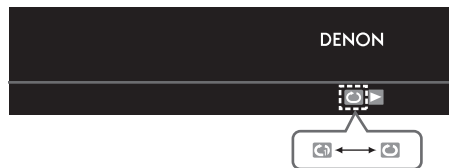
MP3 WMA AAC LPCM DivX

❑ 以任意顺序播放(随机播放)

在停止期间按 **RANDOM** 键，然后按 **ENTER** 或 **▶** 键。

❑ 反复播放(重复播放)

按 **REPEAT** 键选择重复播放模式。



播放JPEG文件(静止图像)

JPEG

以幻灯片的形式播放储存在CD-R/-RW、DVD-R/-RW/+R/+RW光碟和SD存储卡中的JPEG格式的静止图像。

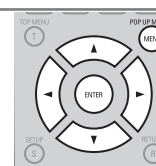
1 当文件浏览画面显示时，按 **POP UP MENU** 键。
将出现缩略图画面。

※ 在缩略图画面显示时按 **POP UP MENU** 键即可返回文件浏览画面。



2 用 **◀ ▶** 键选择静止图像。

3 按 **ENTER** 键。
全屏显示所选的图像。



• 请按以下步骤在图形用户界面(GUI)菜单上设定图像显示时间：“Display Setup(显示屏设置)” - “Slide Show Time(幻灯片放映时间)” (见第30页)。

• 对于较大的图像文件，其显示所需的时间可能会超过设定时间。

❑ 变更播放中的静止图像

按 **◀ ▶** 键。

• 在播放(即显示)下一幅图像前。

❑ 暂停显示

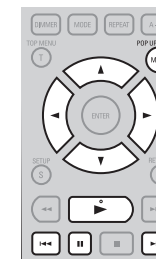
按 **⏸** 键。

• 若要取消暂停，请按 **▶** 键。

❑ 变更静止图像的方向

按 **◀ ▶** 键。

◀ ▶ 180° 旋转
◀ 左转90°
▶ 右转90°



❑ 返回至缩略图显示画面

按 **POP UP MENU** 键。

在播放期间允许进行的操作

在播放期间允许进行的操作

- ❑ 暂停播放 (🔍 第41页)
- ❑ 停止播放 (断点续播功能) (🔍 第41页)
- ❑ 跳至想要播放的章节/曲目/文件 (🔍 第41页)
- ❑ 使用搜索模式查找特定部分 (🔍 第42页)
- ❑ 记忆想要重新播放的位置 (标记功能) (🔍 第43页)
- ❑ 快进/快退 (🔍 第43页)
- ❑ 逐帧播放 (🔍 第43页)
- ❑ 慢进/慢退播放 (🔍 第43页)
- ❑ 以任意顺序播放 (随机播放) (🔍 第44页)
- ❑ 反复播放 (重复播放) (🔍 第44页)
- ❑ 在指定点之间重复播放 (A-B重复播放) (🔍 第44页)
- ❑ 按偏好的顺序播放 (编程播放) (🔍 第45页)
- ❑ 切换音频 (🔍 第45、46页)
- ❑ 改变字幕和字幕风格 (🔍 第46页)
- ❑ 切换角度 (🔍 第47页)
- ❑ 改变显示屏的亮度 (调光器控制) (🔍 第47页)

暂停播放



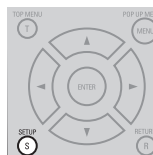
播放期间按 **⏸** 键。

显示屏上将亮起“⏸”指示。

※ 按 **▶** 键恢复正常播放。



如果在暂停期间出现视频模糊现象，请停止播放并按 **Ⓢ** 键，然后在图形用户界面(GUI)菜单上更改“Display Setup(显示屏设置)”-“Still Mode(静像模式)”-“Field(场)”的设定 (🔍 第30页)。



停止播放 (断点续播功能)



播放期间按 **⏹** 键。

播放停止。

❑ 关于断点续播功能



播放停止时，可记忆停止的位置。

- 显示屏上闪烁显示“▶”指示。若要从停止位置继续播放数据，请在使用断点续播功能停止播放的情况下按 **▶** 键。

❑ 若要取消断点续播功能

请执行以下操作之一：

- 在停止期间按 **⏹** 键。
- 打开光碟托盘。
- 用 **Ⓢ** 键更改播放媒体的模式。
- 拔出SD存储卡。



- 断点续播功能对菜单播放或兼容BD-J(蓝光光碟Java功能)的光碟无效。
- 即使设定了候用模式，断点续播功能仍保持有效。但对于DivX®文件，即使设定了候用模式，断点续播功能仍将被取消。
- 若以拔掉电源线的方式切断电源，断点续播功能将被取消。

跳至想要播放的章节/曲目/文件



播放期间按 **⏮** 或 **⏭** 键。

⏮ 从正在播放的章节/曲目/文件的起始位置开始播放。

⏭ 从下一个章节/曲目/文件的起始位置开始播放。

※ 若连续按键，则将跳过与按键次数相同的章节/曲目/文件。



根据光碟而定，跳至标题或分组起始位置的操作可能会被禁止。

使用搜索模式查找特定部分



1 播放期间按 **SRCH** 键，即可进入搜索模式。

搜索模式设定栏显示在画面顶部。

- 每按键一次，搜索模式均改变。

❑ 章节搜索



❑ 标题搜索



❑ 曲目搜索



❑ 分组搜索



❑ 时间搜索



❑ 标记搜索



【兼容搜索模式的媒体和文件】

媒体/文件	BD	DVD-A	SA-CD	DivX	MP3	WMA
	DVD-V					LPCM
DVD			CD		AAC	
搜索模式						
章节搜索	<input type="radio"/>					
标题搜索	<input type="radio"/>					
时间搜索	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
标记搜索 ※	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>		
曲目搜索		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
分组搜索		<input type="radio"/>				

※ 关于标记搜索

从所选的标记编号开始播放。

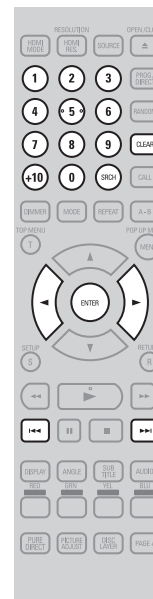


- 如果在连续5秒左右的时间内不对章节/标题/曲目/分组搜索对应的输入模式进行任何操作，该模式将被取消。
- 当电源设为候用模式或光碟被取出时，设定的标记将被删除。

2 在搜索模式设定栏上执行搜索条件输入或设定。

输入完成后，将搜索指定位置。

- 0 ~ 9、+10 输入编号
- ENTER 确认编号
- ← 选择标记编号
- ENTER 确认标记编号或播放
- CLEAR 取消标记编号



• 输入数字

输入3 3 ENTER *

输入26 2 6 ENTER * 或 +10 +10 6

输入138 1 3 8 ENTER *

*: 根据已录制的歌曲或章节数量而定，可能无需使用“ENTER(确认)”键。

- 搜索模式在编程播放或随机播放期间无法运行。使用 **◀**、**▶** 键跳转。
- 时间搜索依据标题和曲目播放时间执行，而与章节播放时间不兼容。
- 根据光碟而定，搜索模式可能无法运行。

记忆想要重新播放的位置(标记功能)

BD DVD-V DVD-A DVD SD DivX

可在想要再次观看或聆听的位置作标记,以便下次从该位置开始播放。

1 播放期间按 **[SRCH]** 键,然后选择“Marker(标记)”。
搜索模式设定栏显示在画面顶部。



2 用 **[1-9]** 键选择编号。



※ 已设定的编号将显示为“✓”。

3 在想要记忆的位置按 **[ENTER]** 键。
即对所选标记编号注册了该位置。

※ 设定位置上将显示已播放时间。



若要播放记忆的位置

用 **[1-9]** 键选择标记编号,然后按 **[ENTER]** 键。

若要清除标记

选择想要清除的标记编号,然后按 **[CLEAR]** 键。

若要清除所有标记

选择“AC(全部清除)”,然后按 **[ENTER]** 键。



- 根据记忆的位置而定,字幕可能不会出现。
- 如果将电源切换至候用模式或弹出光碟,之前设定的标记将被清除。
- 标记功能无法跨标题或跨分组使用。
- 标记搜索仅可在播放期间执行。

快进/快退

BD DVD-A DVD-V DVD SA-CD CD SD
MP3 WMA AAC LPCM DivX

播放期间按 **[FWD]** 或 **[REV]** 键。

- 每按键一次,快进/快退速度均改变。
- 快进/快退速度因光碟和文件而有所不同。

※ 按 **[PLAY]** 键恢复正常播放。



- 在编程或随机播放期间,无法跨文件或曲目进行快进/快退操作。
- 对某些DivX®文件,快进/快退操作可能被禁用。
- 对BD或DVD进行快进/快退操作时,音频将不输出。

逐帧播放

BD DVD-V DivX

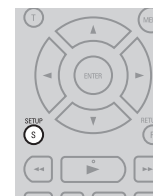
暂停期间按 **[STOP]** 键。

每按键一次,光碟均前进一帧。

※ 按 **[PLAY]** 键恢复正常播放。



- DBP-4010UD不具备逐帧倒放功能。
- 如果视频在逐帧播放过程中出现抖动,请停止播放并按 **[STOP]** 键,然后在图形用户界面(GUI)菜单上更改“Display Setup(显示屏设置)”-“Still Mode(静像模式)”-“Field(场)”的设定(第30页)。



慢进/慢退播放

BD DVD-V DVD

暂停期间按 **[FWD]** 或 **[REV]** 键。

每按键一次,慢进速度均改变。

※ 慢退播放速度将不切换。

※ 按 **[PLAY]** 键恢复正常播放。



- 在慢进/慢退播放期间不输出音频。
- 如果在慢进/慢退播放期间出现视频模糊现象,请停止播放并按 **[STOP]** 键,然后在图形用户界面(GUI)菜单上更改“Display Setup(显示屏设置)”-“Still Mode(静像模式)”-“Field(场)”的设定(第30页)。

以任意顺序播放 (随机播放)

SA-CD CD SD MP3 WMA AAC LPCM DivX

1 在停止期间按 **RANDOM** 键。
显示屏上将亮起“RAND”字样，且屏幕上将显示“Random Mode(随机模式)”。

2 按 **▶** 进行播放。



□ 恢复正常播放

在停止期间按 **RANDOM** 键。

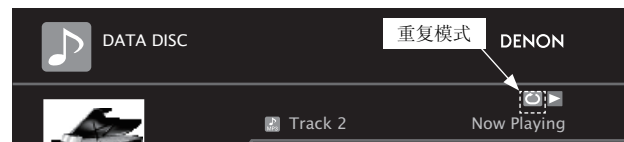


根据光碟而定，可能无法启用随机播放。

反复播放 (重复播放)

BD DVD-A DVD-V DVD SA-CD CD SD
MP3 WMA AAC LPCM DivX JPEG

1 播放期间按 **REPEAT** 键。
重复模式图标显示在画面顶部。
• 每按键一次，重复模式均改变。



2 按 **REPEAT** 键选择重复模式。

※若要恢复正常播放，请按 **REPEAT** 键，然后选择“Repeat Off(重复播放关闭)”。



关于重复模式

可设定的重复模式因播放的光碟或文件而异。

媒体/文件	BD	DVD-A	SA-CD	MP3	显示
	DVD-V		CD	WMA	
	DVD			AAC	
				LPCM	
				DivX	
				JPEG	
模式					
章节重复	○			○	U1
曲目重复		○	○	○	
标题重复	○				
分组重复		○			
重复全部			○	○	



- 根据光碟而定，可能无法使用某些重复模式。
- 根据光碟而定，即使设为重复播放，光碟也可能无法返回至标题或章节的起始位置，并且有可能进至下一个场景。
- 重复播放功能在A-B重复播放期间不可用。

在指定点之间重复播放 (A-B重复播放)

BD DVD-A DVD-V DVD SA-CD CD SD DivX

1 播放期间，在所需的起始点(A)处按 **A-B** 键。
显示屏上将亮起“A-”指示。

※若要取消起始点(A)，请按 **CLEAR** 键。

2 在所需的结束点(B)处再次按 **A-B** 键。
显示屏上将亮起“B”指示，且A-B重复播放随即开始。

※若要恢复正常播放，请按 **A-B** 键，然后选择“Repeat Off(重复播放关闭)”。



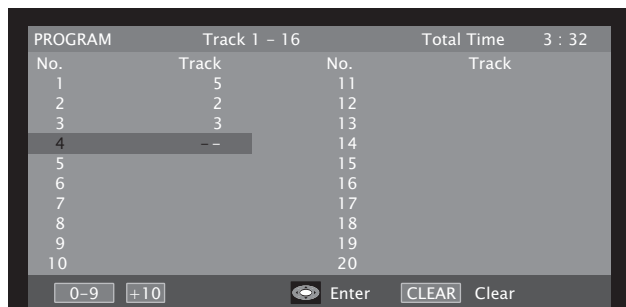
- 使用A-B重复播放功能时，无法跳过标题/文件。
- 如果在A-B重复播放期间执行搜索操作，则A-B重复播放将被取消。
- 根据场景而定，可能无法启用A-B重复播放。
- 无法对MP3/WMA/AAC/JPEG/LPCM文件启用A-B重复播放。
- 在重复播放期间，A-B重复播放不可用。
- 根据DivX®文件而定，可能无法启用A-B重复播放。

按偏好的顺序播放(编程播放)

SA-CD CD

最多可编入20个曲目。

- 1 在停止期间按 **PROG/DIRECT** 键。
显示屏上将亮起“PROG”指示，且编程设定画面出现。



- 2 在编程设定画面上输入想要编程的曲目数量。

0 ~ 9、+10 输入
ENTER 确认输入

- 3 按 **▶** 键。
将以编程的顺序开始播放。

- ❑ 检查编程内容
按 **□** 键设定播放。
将出现编程设定画面。



另外还可查看编程内容，这些内容显示在主机的显示屏上。在停止期间按 **CALL** 键。



- ❑ 逐一删除已编程的曲目
在停止期间按 **CLEAR** 键。
- ❑ 删除所有已编程的内容
按 **PROG/DIRECT** 键。

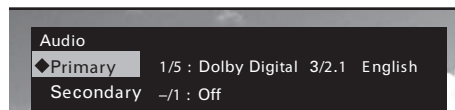
切换音频

BD DVD-A DVD-V DVD CD SD DivX

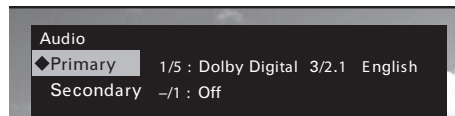
对于采用多重音轨录制的光碟和文件，可在播放期间改变音频。
播放BD时，可通过“Secondary(次)”选项来设定互动音频及注释音频等子轨音频。

切换BD的主音频/次音频

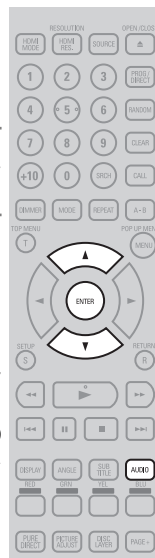
- 1 在主音频/次音频标题播放期间按 **AUDIO** 键。
将显示当前正在播放的音频编号。



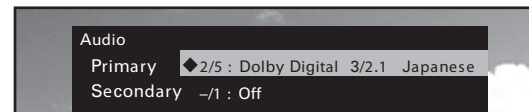
- 2 按 **◀▶** 键选择“Primary(主)”或“Secondary(次)”，然后按 **ENTER** 键。



- ※ 如果录制了多个音频项，将显示“当前音频编号/已录制的音频项数量”。
- ※ 当将“BD Audio Mode(BD音频模式)”设为“HD Audio Output(HD音频输出)”([☞](#)第32页)时，将不输出“Secondary(次)”音频。



- 3 用 **◀▶** 键选择所需的音频语言。



- 4 按 **AUDIO** 键。
设置画面消失。

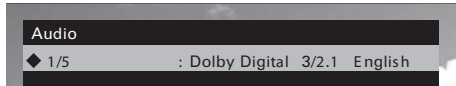


- 根据光碟而定，音频切换功能可能限于光碟菜单的操作。在这种情况下，请在光碟菜单上切换音频。
- 若要播放次音频，请务必将“BD Audio Mode(BD音频模式)”设为“Mix Audio Output(混合音频输出)”([☞](#)第32页)。
- 根据BD而定，即使将画中画播放设为“Off(关闭)”，可能仍仅输出次音频。

音频切换(BD以外的媒体)

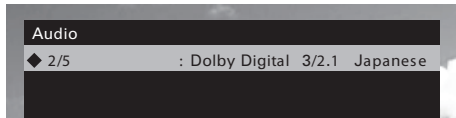
- 1 播放期间按 **AUDIO** 键。
将显示当前正在播放的音频编号。

【示例】DVD



- 2 用 **上下** 键选择音频。

【示例】DVD-Video



- 3 按 **AUDIO** 键。
设置画面消失。



- 对于录有双语原声配音的DVD-R/-RW, 可在“Main”(主音频)和“Sub”(次音频)或“Main/Sub”(主音频+次音频)之间行切换。
- 在CD音频模式下, 可在“Stereo(立体声)”、L-ch(左声道)”或“R-ch(右声道)”之间切换。
- 对于DivX®文件, 将显示“MP3”或“Dolby Digital(杜比数字)”音频格式以及已录制的音频模式数量。对于其它音频文件, 将显示“---”。
- 对于DTS-CD(5.1声道音乐光碟)则无法切换音频模式。

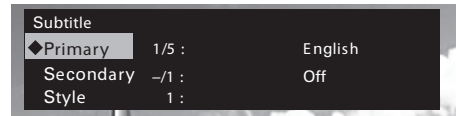
改变字幕和字幕风格

BD DVD-V SD DivX

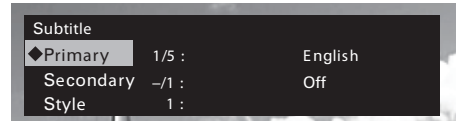
在播放录有字幕的光碟或文件时, 可打开或关闭字幕以及切换字幕语言。
播放BD时, 可改变字幕的显示风格。

改变BD的主字幕/次字幕和字幕样式

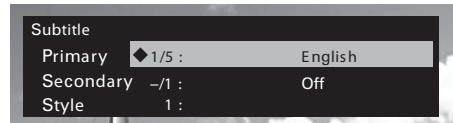
- 1 播放期间按 **SUB/TITLE** 键。
显示当前播放的字幕编号。



- 2 用 **上下** 键选择“Primary(主)”、“Secondary(次)”和“Style(风格)”, 然后按 **ENTER** 键。



- 3 用 **上下** 键选择所需的字幕语言和字幕风格。



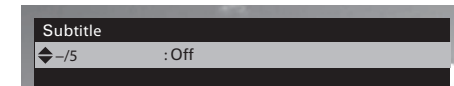
- 4 按 **SUB/TITLE** 键。
设置画面消失。



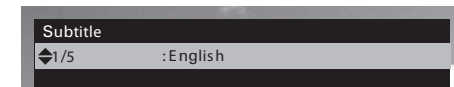
- 如果光碟中不包含字幕和字幕风格, 将显示“Not Available(不可用)”。
- 根据光碟而定, 字幕切换功能可能限于光碟菜单的操作。在这种情况下, 请在光碟菜单上切换字幕。

选择DVD-Video和DivX®文件的字幕

- 1 播放期间按 **SUB/TITLE** 键。
显示当前播放的字幕编号。



- 2 用 **上下** 键选择字幕。



播放DivX®文件时, 将显示当前播放的字幕编号及已录制的字幕数量, 但不显示语言选项。

在播放期间允许进行的操作

切换角度

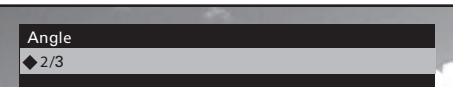
BD DVD-V

在播放以多个拍摄角度录制的BD或DVD-Video的过程中，可切换角度。

- 1 播放期间按 **ANGLE** 键。
将显示当前播放的角度编号。



- 2 用 **ANGLE** 键选择角度。



- 3 按 **ANGLE** 键。
设置画面消失。

注

根据光碟而定，角度切换功能可能会受到限制。

改变显示屏的亮度(调光器控制)

- 按 **DIMMER** 键。
每按键一次，显示屏的亮度均会改变。



标准 → 略暗 → 暗 → 关闭



即使选择了“Off(关闭)”，若将图形用户界面(GUI)菜单上的“Display Setup(显示屏设置)”-“Temporary Display(临时显示)”设为“On(开启)”(第30页)，显示屏上仍将短暂显示所执行操作的状态。

HDMI 控制功能

与兼容DBP-4010UD及HDMI控制功能的电视机或影音放大器进行HDMI连接时，可通过设定各设备的HDMI控制功能来执行以下操作。

- 电视机或影音放大器的电源通过操作DBP-4010UD来开启，且功能随DBP-4010UD的输入而改变。
- 关闭电视机电源的操作将使DBP-4010UD的电源进入候用状态。
- 通过电视机的遥控器来操作DBP-4010UD。
(当电视机的遥控器带播放机操作按钮时)

注

- HDMI控制功能可控制兼容HDMI控制功能的电视机的操作。执行HDMI控制时，确保已连接电视机和HDMI。
- 视所连接的电视机或影音放大器而定，一些功能可能无法运行。有关详情请事先查阅各设备的操作说明书。
- 当将图形用户界面(GUI)菜单上的“Other Setup(其它设置)”-“Power Saving(节电)”设为“Power Saving Standby(节电候用)”或“Normal Standby(常规候用)”时(第31页)，将无法通过HDMI控制功能来开启播放机的电源。
- 当将图形用户界面(GUI)菜单上的“HDMI Setup(HDMI设置)”-“HDMI Control(HDMI控制)”-“Power Off Control(电源关闭控制)”设为“Off(关闭)”(第24页)时，即使所连接的设备处于候用模式，DBP-4010UD也不会被设为候用模式。
- 当图形用户界面菜单上的“DENON LINK Setup(天龙链路设置)”-“DENON LINK Mode(天龙链路模式)”设为“4th(第四代)”时，将对所连接的设备启用HDMI控制功能。

- 1 将HDMI控制功能设为“On(开启)”。
在图形用户界面(GUI)菜单上设定“HDMI Setup(HDMI设置)”-“HDMI Control(HDMI控制)”(第24页)。

- 2 开启由HDMI 电缆所连接的所有设备的电源。

- 3 对由HDMI 电缆所连接的所有设备设定HDMI控制功能。
在图形用户界面(GUI)菜单上，通过“HDMI Setup(HDMI设置)”-“HDMI Control(HDMI控制)”(第24页)选项对DBP-4010UD进行设定。

※ 有关所连接设备的设定，请参阅操作说明书。

※ 如果有任何设备未接通电源，请执行步骤2和步骤3。

- 4 为确保DBP-4010UD的HDMI 视频输出可在电视机屏幕上放映，请更改电视机和影音放大器的输入功能。

- 5 当将电视机的电源切换至候用状态时，请检查并确认DBP-4010UD和影音放大器的电源也变为候用状态。



如果HDMI控制功能不能正常运行，请检查以下各项。

- 电视机或影音放大器是否与HDMI控制功能兼容？
- 所有设备的HDMI控制功能设定是否正确？(步骤3)
- 完成设定后，是否又连接了其它HDMI设备或对连接进行了修改？在这种情况下，请重新执行设定。

关于DENON LINK(天龙链路)

DENON LINK(天龙链路)是由DENON独家开发的数字平衡传输式接口。它可以快速、高质量地转换数字音频数据,且信号损失小。它还可与配有专用DENON LINK(天龙链路)端子的DENON影音放大器一起使用,使用单根电缆即可实现高音质播放。同时,它可对DVD-Audio(DVD音频)光碟的192kHz/24比特双声道数字信号、PCM多声道信号等进行传输。通过连接为第3代DENON LINK(天龙链路)配备的播放机,可对超级音频CD的音频内容进行全规格数字传输。

在DENON LINK(天龙链路)的处理过程中,显示屏上的DENON LINK(天龙链路)指示亮起。

DENON LINK 4th(天龙第4代链路技术)使用由DENON LINK(天龙链路)连接的影音放大器的时钟信号,播放BD时可实现HDMI信号的无抖动传输。

关于Advanced AL24 Processing(高级仿真波形再生技术)

凭借运用于PCM信号播放系统的速度信号独立检测和处理技术,模拟输出侧配备的“Advanced AL24 Processing(高级仿真波形再生技术)”可以大幅提升时间轴上的信息量。除了可将数据扩展至24比特,该技术还可通过数字增采样处理,在不损失原始信号的情况下进行自然插值处理。当Advanced AL24 Processing(高级仿真波形再生技术)正在运行时,前面板上的“Advanced AL24”指示将点亮。

关于版权保护技术

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商标信息

本产品采用以下技术:

	“Blu-ray Disc”和“  ”是商标。
	 是DVD格式/标识许可公司的商标。
	HDMI、HDMI标识和High-Definition Multimedia Interface(高分辨率多媒体接口)是HDMI Licensing LLC公司的商标或注册商标。
	Java及所有其它商标和标识是Sun Microsystems, Inc.在美国和/或其它国家的商标或注册商标。
	经杜比实验室许可制造。Dolby、Pro Logic和双D符号()是杜比实验室的商标。
	其制造许可基于以下美国专利号: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,392,195; 7,272,567; 7,333,929; 7,212,872以及其它在美国和世界各地已经颁发和正在申请的专利。DTS是注册商标, DTS标识、符号、DTS-HD和DTS-HD Master Audio Essential是DTS公司的商标。©1996-2008 DTS公司。保留所有权利。
	Windows Media和Windows标识是微软公司在美国和/或其它国家的商标或注册商标。
	DivX、DivX认证及相关标识是DivX公司的商标,并经过许可使用。

	 ®、HDCD®、High Definition Compatible Digital®和Microsoft®是微软公司在美国和/或其它国家的注册商标或商标。HDCD系统经微软公司许可制造。本产品涉及下列专利中的一项或数项: 美国专利号为: 5,479,168, 5,638,074, 5,640,161, 5,808,574, 5,838,274, 5,854,600, 5,864,311和5,872,531; 澳大利亚专利号为: 669114。其它专利正在申请中。
	“AVCHD”和“AVCHD”标识是松下公司和索尼公司的商标。
	“BONUSVIEW”是蓝光光碟协会的商标。
	“BD-LIVE”标识是蓝光光碟协会的商标。
	“SDHC”标识是商标。

语言代码列表

语言	代码
A 阿布哈西亚语	4748
阿尔巴尼亚语	6563
阿法尔语	4747
阿方奥洛莫语	6159
阿拉伯语	4764
阿姆哈拉语	4759
阿萨姆语	4765
阿塞拜疆语	4772
艾马拉语	4771
爱尔兰语	5347
爱沙尼亚语	5166
奥里亚语	6164
B 巴什基尔语	4847
巴斯克语	5167
白俄罗斯语	4851
保加利亚语	4853
北印度语	5455
比哈里语	4854
比斯拉马语	4855
冰岛语	5565
波兰语	6258
波斯语	5247
不丹语	5072
布列塔尼亚语	4864
C 茨瓦纳语	6660
聪加语	6665
D 鞑靼语	6666
丹麦语	5047
德语	5051
E 俄语	6467
F 法罗语	5261
法语	5264
梵语	6547
斐济语	5256
芬兰语	5255
弗里斯兰语	5271
G 盖丘亚语	6367
格陵兰语	5758
格鲁吉亚语	5747
古吉拉特语	5367
瓜拉尼语	5360
国际语	5551
H 哈萨克语	5757
韩语	5761
豪撒语	5447
荷兰语	6058

语言	代码
J 基隆迪语	6460
吉尔吉斯语	5771
加利西亚语	5358
加泰罗尼亚语	4947
柬埔寨语	5759
捷克语	4965
K 坎拿达语	5760
科萨语	7054
科西嘉语	4961
克罗地亚语	5464
克什米尔语	5765
库尔德语	5767
L 拉丁国际语	5547
拉丁语	5847
拉脱维亚语	5868
老挝语	5861
立陶宛语	5866
列托-罗曼斯语	6459
林加拉语	5860
卢旺达语	6469
罗马尼亚语	6461
M 马尔加什语	5953
马耳他语	5966
马拉地语	5964
马来亚拉姆语	5958
马来语	5965
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A 阿尔巴尼亚	AL	F 法罗群岛	FO	莱索托	LS	S 萨尔瓦多	SV	X 西撒哈拉	EH
阿尔及利亚	DZ	法属波利尼西亚	PF	老挝人民民主共和国	LA	萨摩亚群岛	WS	象牙海岸	CI
阿富汗	AF	法属圭亚那	GF	黎巴嫩	LB	塞尔维亚	RS	新喀里多尼亚岛	NC
阿拉伯联合酋长国	AE	法属南部领地	TF	立陶宛	LT	塞拉利昂	SL	匈牙利	HU
阿鲁巴岛	AW	梵蒂冈	VA	利比里亚	LR	塞内加尔	SN	叙利亚阿拉伯共和国	SY
阿曼	OM	斐济	FJ	列支敦士登	LI	塞浦路斯	CY	Y 牙买加	JM
阿塞拜疆	AZ	佛得角	CV	留尼汪岛	RE	塞舌尔	SC	亚美尼亚	AM
埃及	EG	福克兰群岛(马尔维纳斯群岛)	FK	卢旺达	RW	沙特阿拉伯	SA	也门	YE
埃塞俄比亚	ET	G 冈比亚	GM	罗马尼亚	RO	圣巴托洛缪岛	BL	伊拉克	IQ
爱沙尼亚	EE	刚果	CG	M 马达加斯加岛	MG	圣诞岛	CX	伊朗伊斯兰共和国	IR
安道尔	AD	刚果民主共和国	CD	马恩岛	IM	圣多美和普林西比民主共和国	ST	以色列	IL
安哥拉	AO	哥斯达黎加	CR	马尔代夫	MV	圣赫勒拿岛	SH	英属维尔京群岛	VG
安圭拉岛	AI	格恩西岛	GG	马耳他	MT	圣基茨和尼维斯联邦	KN	英属印度洋领地	IO
安提瓜和巴布达	AG	格林纳达	GD	马拉维	MW	圣卢西亚岛	LC	约旦	JO
奥兰群岛	AX	格陵兰	GL	马里	ML	圣马丁岛	MF	越南	VN
澳门	MO	格鲁吉亚	GE	马绍尔群岛	MH	圣马力诺	SM	Z 赞比亚	ZM
B 巴巴多斯岛	BB	古巴	CU	马提尼克岛	MQ	圣皮埃尔和密克隆群岛	PM	泽西岛	JE
巴布亚新几内亚	PG	瓜德罗普岛	GP	马约特岛	YT	圣文森特和格林纳丁斯群岛	VC	乍得	TD
巴哈马群岛	BS	关岛	GU	毛里求斯	MU	斯里兰卡	LK	直布罗陀	GI
巴拉圭	PY	圭亚那	GY	毛利塔尼亚	MR	斯洛伐克	SK	中非共和国	CF
巴勒斯坦占领区	PS	H 哈萨克斯坦	KZ	美属边疆群岛	UM	斯洛文尼亚	SI		
巴林	BH	海地	HT	美属萨摩亚群岛	AS	斯瓦尔巴群岛和扬马延岛	SJ		
巴拿马	PA	荷属安地列斯群岛	AN	美属维尔京群岛	VI	斯威士兰	SZ		
白俄罗斯	BY	赫德岛和麦克唐纳群岛	HM	蒙古	MN	苏丹	SD		
百慕大群岛	BM	黑山共和国	ME	蒙特塞拉特岛	MS	苏里南	SR		
保加利亚	BG	洪都拉斯	HN	孟加拉国	BD	所罗门群岛	SB		
北马利亚纳群岛	MP	J 基里巴斯	KI	秘鲁	PE	索马里	SO		
贝宁	BJ	吉布提	DJ	密克罗尼西亚联邦	FM	T 塔吉克斯坦	TJ		
冰岛	IS	吉尔吉斯斯坦	KG	缅甸	MM	坦桑尼亚联合共和国	TZ		
波多黎各	PR	几内亚	GN	摩尔多瓦	MD	汤加	TO		
波斯尼亚和黑塞哥维那	BA	几内亚比绍	GW	摩洛哥	MA	特克斯和凯科斯群岛	TC		
玻利维亚	BO	加纳	GH	摩纳哥	MC	特立尼达和多巴哥	TT		
伯利兹	BZ	加蓬	GA	莫桑比克	MZ	突尼斯	TN		
博茨瓦纳	BW	柬埔寨	KH	N 纳米比亚	NA	图瓦卢	TV		
不丹	BT	教廷(梵蒂冈)	VA	南非	ZA	土耳其	TR		
布基纳法索	BF	捷克共和国	CZ	南极洲	AQ	土库曼斯坦	TM		
布隆迪	BI	津巴布韦	ZW	南乔治亚岛和南桑威奇群岛	GS	托克劳	TK		
布韦群岛	BV	K 喀麦隆	CM	瑙鲁	NR	W 瓦利斯和富图纳群岛	WF		
C 朝鲜民主主义人民共和国	KP	卡塔尔	QA	尼泊尔	NP	瓦努阿图	VU		
赤道几内亚	GQ	开曼群岛	KY	尼加拉瓜	NI	危地马拉	GT		
D 大阿拉伯利比亚人民社会主义民众国	LY	科摩罗群岛	KM	尼日尔	NE	委内瑞拉	VE		
东帝汶	TL	科威特	KW	尼日利亚	NG	文莱达鲁萨兰国	BN		
多哥	TG	可可(基林)群岛	CC	纽埃岛	NU	乌干达	UG		
多米尼加	DM	克罗地亚	HR	诺福克岛	NF	乌克兰	UA		
多米尼加共和国	DO	肯尼亚	KE	P 帕劳	PW	乌拉圭	UY		
E 厄瓜多尔	EC	库克群岛	CK	皮特凯恩群岛	PN	乌兹别克斯坦	UZ		
厄立特里亚	ER	L 拉脱维亚	LV	Q 前南斯拉夫马其顿共和国	MK				

序言

连接方法

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信息

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规格

术语解释

数字

4:3信箱格式

当通过连接4:3的电视机和DBP-4010UD来播放(16:9)的光碟时,该功能播放图像时将在图像的顶部和底部加上黑色区域。

4:3平移扫描

当通过连接4:3的电视机和DBP-4010UD来播放(16:9)的光碟时,该功能播放图像时将根据光碟的控制信息裁去图像的左右两边,使图像变为4:3的尺寸。

B

BD-J (Java)

对于BD-Video,具有采用Java应用程序实现的带更多交互式功能的娱乐软件(游戏)。

BD-LIVE

可将DBP-4010UD连接至网络以尽享众多功能,其中包括特殊视频或字幕、网络游戏等附加内容。

比特率

比特率表示每秒钟读取光碟中录制的视频/音频的数据量。

变形镜头

使用投影机投影图像时,该镜头可将图像从16:9放大至2.35:1。

标题

标题是指组成BD或DVD-Video章节的内容单元。某些BD或DVD-Video(DVD视频)可能会包含多个标题。

C

次音频

次音频是指以BD-Video的双影音同步解码形式录制的电影导演评论的音频信号或其它数据。

D

Deep Color (深色)

该技术可表达比传统8位更多的色彩,并再现出接近于自然色、不带色痕的色彩。

DHCP (动态主机配置协议)

该机制可自动为包括DBP-4010UD、个人电脑和宽带路由器在内的网络设备进行IP地址等网络配置。

Dolby Digital (5.1ch Surround) (杜比数字 (5.1声道环绕))

杜比数字是由杜比实验室开发的一种立体声音效,它是由最多达5.1声道组成的独立多声道音频系统。

Dolby Digital Plus (杜比数字Plus)

Dolby Digital Plus(杜比数字Plus)为Dolby Digital(杜比数字)的扩展版本,是一种高音质数字音频技术,被蓝光光碟采纳作为可选音频标准。

Dolby TrueHD (杜比TrueHD)

Dolby TrueHD(杜比TrueHD)是一种支持7.1声道的无损编码技术,被蓝光光碟采纳作为可选音频标准。

Downmix (降低混频)

降低混频功能是将环绕音频的多个声道转换成较少的声道进行播放的一种功能。

DTS

DTS为Digital Theater System(数字影院系统)的缩写,是由DTS开发的一种数字音频系统。当通过将该系统与DTS放大器等设备连接来播放音频时,可实现精确的音场定位并获得如同置身影院的临场感音效。

DTS-HD

DTS-HD音频技术能提供比传统DTS技术更高的音质和增强的功能性,并且被蓝光光碟采纳为可选音频标准。该技术支持多声道、高速数据传输、高采样频率和无损音频播放。蓝光光碟中最多支持7.1声道。

低频音效

LFE为Low Frequency Effect(低频音效)的缩写,是一种强化低频音效声音的输出声道。环绕音效通过输出20Hz~120Hz的重低音得到增强。

动态范围

动态范围是指声音不会失真的最高电平和超出设备所发出噪音的可辨别声音的最低电平之间的电平差。

G

隔行扫描 (交错式扫描)

这是用于在电视机上投影图像的传统方法,该方法以分别作为2个场的半帧加半帧的形式显示图像的每一帧。

H

HDCP

当在设备间进行数字信号传输时,该版权保护技术可对信号进行加密,从而防止信号内容在未经授权的情况下被复制。

HDMI

HDMI为High-Definition Multimedia Interface(高清晰度多媒体接口)的缩写,是一种可连接至电视机或放大器的影音数字接口。视频信号和音频信号可以通过一根电缆进行连接。

互动音效

录制在BD-Video标题中的音频,如在操作过程中发出的点击音等。

画中画

画中画为一种BD-Video功能,允许一边观看主视频中的主线故事,一边观看子视频中的制作场景或评论场景。

J

结束处理

结束处理是指为使由录音机录制的BD/DVD/CD光碟可在其它播放机上播放所进行的处理。

K

宽高比

宽高比表示电视机屏幕的宽度和高度之比。常规电视机屏幕的宽高比为4:3,宽屏幕电视机的宽高比为16:9。

L

蓝光光碟

蓝光光碟是一种容量为25GB、可以录制高清晰度视频动画和游戏的单面单层光碟。

M

MPEG

MPEG为Moving Picture Experts Group(动态图像专家组)的缩写,是一种动态图像音频压缩方法的国际标准。BD和DVD的图像均采用该方法录制。

Q

区域代码

该代码表示可播放BD或DVD-Video的国家或地区。

R

Rating (等级)

等级是指一种根据观看者的年龄来限制BD-Video或DVD-Video播放的功能。DBP-4010UD可将BD-Video的限制等级设为0~254级,将DVD-Video的限制等级设为1~8级。

S

双影音同步解码

为BD-Video提供特殊图像。包括电影导演的评价、同时展开的插曲故事和从不同角度拍摄的图像。

T

弹出菜单

弹出菜单录制在BD软件中。在播放CD的同时,可将该菜单显示在画面上并对其操作。

X

线性PCM

线性PCM信号为未经压缩的PCM(脉冲编码调制)信号。该系统是一种与CD音频相同的系统,但它采用BD或DVD中所采用的采样频率192kHz、96kHz和48kHz,并可提供超越CD的音质。

Z

章节

制作者在编排BD或DVD-Video标题时有意设置的中断。使用章节搜索功能可搜索到该中断的起始位置。

逐行扫描 (顺序扫描)

逐行扫描是一种将一帧视频作为一幅图像进行显示的視頻信号扫描系统。与隔行扫描系统相比,该系统改善了图像闪烁和模糊的现象。

主音频

主音频信号是一种录制在BD-Video的主线故事中的信号。

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故障诊断

若出现问题，请先检查以下各项：

1. 连接是否正确？
2. 是否按照说明书操作设备？
3. 其它设备是否正常运转？

若本机运转不正常，请先检查下表中各项。如果问题仍无法解决，说明本机可能存在故障。在这种情况下，请立即断开电源，并与购得本机的商家联系。

症状	原因/对策	页码
电源无法开启。	• 检查电源线是否正确连接。	20
	• 将电源线插头插入电源插座中。	-
	• 可能激活了安全保护设备。请先将电源线插头拔下，等待5~10秒钟后再重新插上插头。	-
	• 风扇停止转动时，DBP-4010UD由于安全保护功能而进入候用模式。请检查设备后方是否有物体干扰风扇转动。	3, 9
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取消SD存储卡的写保护功能。	• 取消SD存储卡的写保护功能。	-
图像不出现。	• 请将电视机的输入设定切换至连接到播放机的外部输入。	-
	• 纯直入功能是否设成了“On(开启)”？请设为“Off(关闭)”。	28, 38
	另外，图形用户界面(GUI)菜单中的“Pure Direct Setup(纯直入设置)”-“Video Out(视频输出)”设定的“User Preset 1(用户预设1)”或“User Preset 2(用户预设2)”是否设成了“Off(关闭)”？请设为“On(开启)”。	
	• HDMI模式是否设成了“HDMI On(HDMI开启)”？在这种情况下，视频信号将从视频、S视频和HDMI端子输出，而不从色差端子输出。	13
	• 请检查视频/S视频/色差视频电缆的连接。	18
• 图形用户界面(GUI)菜单中的“HDMI Setup(HDMI设置)”-“I/P Direct(I/P直入)”是否设成了“On(开启)”？在这种情况下，在播放某些光碟的过程中，将无视频信号从视频和S视频端子输出。	23	
• 图形用户界面(GUI)菜单中的“Video Setup(视频设置)”-“Component Resolution(色差分辨率)”设定是否与所连接设备的分辨率相匹配？请设定为与之匹配。	24	

症状	原因/对策	页码
采用HDMI连接时视频和音频不输出。	• 请检查HDMI电缆的连接。	13
	• DBP-4010UD显示屏上的“HDMI”指示是否亮起？ • 纯直入功能是否设成了“On(开启)”？请设为“Off(关闭)”。	8 28, 38
另外，图形用户界面(GUI)菜单中的“Pure Direct Setup(纯直入设置)”-“Video Out(视频输出)”设定的“User Preset 1(用户预设1)”或“User Preset 2(用户预设2)”是否设成了“Off(关闭)”？请设为“On(开启)”。	• HDMI模式是否设成了“HDMI Off(HDMI关闭)”？在这种情况下，视频信号将从视频和S视频端子输出，而不从HDMI端子输出。	13
	• 请检查所连接的显示设备或其它设备是否支持HDCP。除非其它设备支持HDCP，否则本机将不输出视频信号。请参阅电视机、影音放大器等设备的操作说明书。	15
	• 请检查HDMI视频分辨率的设定是否支持所连接设备的分辨率。当设为“Auto(自动)”时，DBP-4010UD将自动进行设定。	13
HD音频不输出。	• 请将“BD Audio Mode(BD音频模式)”设为“HD Audio Output(HD音频输出)”。	32
图像不显示或受到干扰。	• 在刚刚快进或快退后，图像可能会受到轻微干扰。这不是故障。	-
	• 将DBP-4010UD的视频/S视频/色差视频输出直接连接至电视机或通过影音放大器连接至电视机。请勿通过VCR(盒式磁带录像机)连接。某些光碟包含禁止复制的信号，在用VCR播放此类光碟时，复制防护系统可能会造成图像干扰。	18
BD-Video(BD视频)或DVD-Video(DVD视频)光碟的图像为黑白图像。	• 是否装入了与播放机不兼容的光碟，或者装入了带有不同区域代码的光碟？(本播放机支持区域代码为“C”的BD-Video光碟以及区域代码为“6”或“ALL”的DVD-Video光碟。)	3
	• 图形用户界面(GUI)菜单中的“HDMI Setup(HDMI设置)”-“I/P Direct(I/P直入)”是否设成了“On(开启)”？在这种情况下，在播放某些光碟的过程中，将无视频信号从视频和S视频端子输出。	23

症状	原因/对策	页码
听不到声音或难以听到声音。	<ul style="list-style-type: none"> • 请检查连接了其音频的设备和扬声器连接。 • 连接了其音频的设备的电源是否开启？ • 输入选择是否设成了连接至DBP-4010UD的输入？ • 是否正确选择了音频输出？ 	11~20 -
播放过程中出现短暂的图像定格。	<ul style="list-style-type: none"> • 当光碟被划伤或因沾有指印而脏污时，可能无法正确播放。请清洁光碟或更换为一张未划伤的光碟。 • 光碟中录制的数据可能存在问题。 	6 -
即使按▶键也不能开始播放，或者能够开始播放但播放立即停止。	<ul style="list-style-type: none"> • 播放机内部或光碟上是否发生冷凝？（关闭设备电源并将其搁置1~2小时。） • 当光碟被划伤或因沾有指印而脏污时，可能无法正确播放。请清洁光碟或更换为一张未划伤的光碟。 • 光碟是否上下面装反？请正确装入光碟，使含有要进行播放信号的一面朝下。 • 是否装入了不可播放的光碟？ 	3 6 6 3, 4
字幕不显示。	<ul style="list-style-type: none"> • 对于不包含字幕的BD-Video、DVD-Video)或DivX®文件，字幕无法显示。 • 字幕是否设成了“Off(关闭)”？请用光碟菜单或按[]键显示字幕。 	46 23
无法读取SD存储卡。	<ul style="list-style-type: none"> • 存储卡的格式与本机不匹配或者卡与本机不兼容。 • 播放媒体的模式是否设成了“SD CARD MODE(SD卡模式)”？按[]键选择“SD CARD MODE(SD卡模式)”。 	31 34
取出光碟时不返回启动画面。	<ul style="list-style-type: none"> • 可能是内部错误。请将电源设为候用模式，等待片刻，然后再次接通电源。 	-
无法通过遥控器来操作设备。	<ul style="list-style-type: none"> • 请将遥控器对准本机正面的红外感应窗。 • 请在离遥控感应窗7米以内的范围进行操作。 • 移除障碍物。 • 换上新电池。 • 按照⊕和⊖标记，以正确方向插入电池。 • 使遥控器的信号代码与本机的信号代码相匹配。 	7 7 - 7 7 7

症状	原因/对策	页码
本机受到其它DENON产品的遥控器的操作。	<ul style="list-style-type: none"> • 本机受到其它DENON产品的遥控器的操作。 • 若要避免本机受其它设备的遥控器的操作，请在图形用户界面(GUI)菜单中将“Other Setup(其它设置)”-“Remote Control Setting(遥控器设定)”-“Receive Legacy Remocon(接收遗留遥控)”设为“Off(关闭)”。 	7, 31 31
按键不起作用或本机停止响应。	<ul style="list-style-type: none"> • 光碟可能不允许该操作。 • 可能激活了安全保护设备。请先将电源线插头拔下，等待5~10秒钟后再重新插上插头。 • 请参阅光碟的使用说明书。 	- - -
不读取可播放的光碟。	<ul style="list-style-type: none"> • 可能是光学头脏污。请求维修前，请尝试用市售的光学头清洁剂来清洁激光头。（请勿用刷子蘸清洁剂清洗光学头，否则会损坏光学头。） 	-
角度不切换。	<ul style="list-style-type: none"> • 如果BD-Video或DVD-Video未录制多个角度，则角度无法切换。另外，可能只对某些特定的场景录制了多个角度。 	47
标题选中后不开始播放。	<ul style="list-style-type: none"> • 播放可能是被观看限制设定而禁止。请查看图形用户界面菜单中的“Ratings(等级)”设定。 	29
忘记了等级密码。	<ul style="list-style-type: none"> • 在图形用户界面(GUI)菜单中执行“Other Setup(其它设置)”-“Initialize(初始化)”步骤。 	31



- 有些功能在某些运行状态下可能无法使用，这并不表示本机发生故障。有关正确操作的详情，请阅读本操作说明书中的说明。
- 音量可能会因光碟而异。这是因光碟中信号录制方法的差异而致，并非故障。
- 在编程播放期间，无法执行随机播放或者从所需曲目或文件开始播放。
- 有些功能在某些光碟上被禁止。

□ 音频性能

信号格式：
适用的光碟/存储卡：

NTSC、PAL
(1)BD-Video光碟：
12cm单面单层、12cm单面双层
(2)DVD-Video/DVD-Audio光碟：
12cm单面单层、12cm单面双层/
12cm双面双层(每面各1层)
8cm单面单层、8cm单面双层/
8cm双面双层(每面各1层)
(3)超级音频CD：
12cm单层/12cm双层/12cm混合型
(4)压缩光碟(CD-DA)：
12cm/8cm光碟
(5)存储卡：
SD存储卡/SDHC存储卡/miniSD卡/
microSD卡

S视频输出：

Y输出电平：1V_{p-p}(75Ω/欧姆)
C输出电平：0.300 V_{p-p}

视频输出：

输出端子：1组S视频
输出电平：1V_{p-p}(75Ω/欧姆)
输出端子：1组针脚插孔

色差视频输出：

Y输出电平：1V_{p-p}(75Ω/欧姆)
Pb/Cb输出电平/Pr/Cr输出电平：0.7V_{p-p}(75Ω/欧姆)

HDMI输出：

输出端子：1组针脚插孔
输出端子：1组19针HDMI端子
HDMI 1.3a版
(Deep Colour(深色)、Dolby Digital Plus(杜比数字Plus)、
Dolby TrueHD(杜比TrueHD)、DTS-HD)

模拟音频输出：

输出电平：2V_{rms}(10kΩ/千欧)
双声道输出端子：1组针脚插孔
7.1声道输出端子：1组针脚插孔

音频输出特性：

(1)频率响应
①BD(多声道线性PCM) : 2Hz~22kHz(采样频率48kHz)
: 2Hz~44kHz(采样频率96kHz)
: 2Hz~88kHz(采样频率192kHz)
②DVD(多声道线性PCM) : 2Hz~22kHz(采样频率48kHz)
: 2Hz~44kHz(采样频率96kHz)
: 2Hz~88kHz(采样频率192kHz)
③超级音频CD : 2Hz~100kHz
④CD : 2Hz~20kHz

(2)S/N(信噪比)：125dB
(3)总谐波失真：1kHz 0.0008%
(4)动态范围：110dB

数字音频输出：

光学数字输出：1组光学连接器
同轴数字输出：1组针脚插孔

□ 概要

电源：AC 220V, 50Hz
功耗：55W
(☞ 第31页“Power Saving(节电)”) • 处于节电候用模式时：0.3W
• 处于常规候用模式时：0.8W
• 处于快速启动模式时：
20~35W(根据连接状态等因素而变化。)

最大外形尺寸：

434(W)×137(H)×383(D)mm

重量：

10kg

□ 遥控器(RC-1141)

遥控类型：红外脉冲
电池：R6/AA型(2节电池)
最大外形尺寸：58(W)×230(H)×37(D)mm
重量：205g(含电池)

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Version 2, June 1991

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Exhibit-E

The Independent JPEG Group's JPEG software README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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DOCUMENTATION ROADMAP

This file contains the following sections:

OVERVIEW	General description of JPEG and the IJG software.
LEGAL ISSUES	Copyright, lack of warranty, terms of distribution.
REFERENCES	Where to learn more about JPEG.
ARCHIVE LOCATIONS	Where to find newer versions of this software.
RELATED SOFTWARE	Other stuff you should get.
FILE FORMAT WARS	Software *not* to get.
TO DO	Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc	How to configure and install the IJG software.
usage.doc	Usage instructions for cjpeg, djpeg, jpegtran, rdjpgcom, and wrjpgcom.
*.1	Unix-style man pages for programs (same info as usage.doc).
wizard.doc	Advanced usage instructions for JPEG wizards only.
change.log	Version-to-version change highlights.
Programmer and internal documentation:	
libjpeg.doc	How to use the JPEG library in your own programs.
example.c	Sample code for calling the JPEG library.
structure.doc	Overview of the JPEG library's internal structure.
filelist.doc	Road map of IJG files.
coderrules.doc	Coding style rules — please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet.

For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats.

The library is intended to be reused in other applications. In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf.

It is copyright by the Free Software Foundation but is freely distributable.

The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software.

(Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files.

To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.

(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp.

The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.)

In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz. There is also a plain text version at ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.

IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from ftp://ftp.sgi.com/graphics/tiff/.

ARCHIVE LOCATIONS

The "official" archive site for this software is ftp.uu.net (Internet address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/pegsrsc.v6b.tar.gz.

If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups.

It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

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send usenet/news.answers/jpeg-faq/part1

send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/. Unfortunately PBMPPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford,

is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library.

The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation.

We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF.

SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not.

(In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.

We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

The major thrust for v7 will probably be improvement of visual quality.

The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions — principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

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August 15, 2004

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You can also contact us individually at:

- David Turner <david.turner@freetype.org>
- Robert Wilhelm <robert.wilhelm@freetype.org>
- Werner Lemberg <werner.lemberg@freetype.org>

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