

BRYSTON

BDP-1
OWNER'S MANUAL

IMPORTANT SAFETY INSTRUCTIONS



The lightning flash with arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of un-insulated “dangerous voltage “ within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.

TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.

THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.

BRYSTON LIMITED WARRANTY

Bryston analog audio products are warranted to be free from manufacturing defects for twenty (20) years from the original date of manufacture. The warranty includes parts and labour.

Bryston Digital products and cables are warranted for five years from the original date of manufacture. The warranty includes parts and labour.

Bryston products having motorized moving parts, excluding motorized volume controls, are warranted for three years from the original date of manufacture. The warranty includes parts and labour.

Bryston will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance. Bryston will pay return shipping costs for the full length of the specific product’s warranty.

In the event of a defect or malfunction, contact Bryston’s repair centers for return authorization. Products must be returned using original packaging material only. Packing material may be purchased from Bryston if necessary. This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. Tampering by persons other than factory authorized service personnel or failure to fully comply with Bryston operating instructions voids the warranty. This warranty gives you specific legal rights and you may also have other rights which may vary from province to province and country to country.

As of 2006-02-22 Bryston will only warranty Bryston products purchased through authorized Bryston dealers. Bryston products with a date code of 0608 or higher (date code format is “yyww”, where “yy” is the two least significant digits of the year and “ww” is the week of the year) must be accompanied by a copy of the bill-of-sale from a Bryston authorized dealer to qualify for warranty service. The warranty is transferable from the original owner to a subsequent owner as long as a copy of the bill-of-sale from the original authorized Bryston dealer accompanies the re-sale. The copy of the bill of sale to any subsequent owner need ONLY include the Name of the Bryston Authorized Dealer and the Model and Serial number of the Bryston product. The warranty will only be honored in the country of the original purchase unless otherwise pre-authorized by Bryston.

BRYSTON SERVICE in CANADA:

Postal address: **P.O. BOX 2170, Stn. Main
PETERBOROUGH, ONTARIO
CANADA K9J 7Y4**

Courier address: **677 NEAL DRIVE
PETERBOROUGH, ONTARIO
CANADA K9J 6X7**

PHONE: 705-742-5325
FAX: 705-742-0882
E-mail: cdnser@bryston.com

BRYSTON SERVICE in the USA:

**79 COVENTRY ST., Suite 5
NEWPORT, VERMONT
U.S.A. 05855-2100**

PHONE: 802-334-1201
FAX: 802-334-6658
E-mail: usaser@bryston.com

BRYSTON SERVICE outside Canada and the USA:

contact your local distributor *or*

CHECK OUR WEB SITE: www.bryston.com
E-MAIL BRYSTON DIRECTLY: cdnser@bryston.com
FAX BRYSTON DIRECTLY: 01-705-742-0882
PHONE BRYSTON DIRECTLY: 01-705-742-5325

BRYSTON BDP-1 DIGITAL PLAYER

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GENERAL

DESCRIPTION

The Bryston BDP-1 is a state-of-the-art digital music player that can play back most high resolution digital music formats including AIFF, FLAC & WAV files up to 24 bits @ 192 kilo samples per second (192/24) as well as standard formats and lower resolution digital music files like MP3's. It receives digital audio inputs via any of its four USB ports. The BDP-1 outputs digital signals via its SPDIF and AES/EBU ports for connecting to an external digital-to-analog converter like Bryston's BDA-1, which in turn delivers analog audio signals to preamps and integrated amplifiers. The BDP-1 can be controlled locally via its front panel push-button controls using the BDP-1's dot matrix display and by Bryston's infra-red handheld remote control, the BR2. It can be controlled remotely via Bryston's web apps (MINI for mobile devices and MAX for desktop computers) and the *Minion* add-on for the *Firefox* Web browser. It can also be controlled by the *iPod Touch* music player or the *iPad* using their WiFi interface and the *mPod* app.

BDP-1 FEATURES:

- Linear power supply for audio processing circuitry
- A separate power supply for microprocessors and for maintaining standby mode.
- Four USB-2 (USB-1.0 and 1.1 compatible) inputs
- Multiple control options:
 - Front panel push button controls
 - iPod Touch or iPhone (with mPod app)
 - Minion (Firefox add-on) Web based app
 - Bryston-MINI web app for mobile devices running Android or iOS
 - Bryston-MAX web app for PC's
 - Bryston's BR2 hand-held infra-red remote control
- Two digital outputs:
 - SPDIF (75 Ohm BNC female)
 - AES/EBU (3 pin XLR male)
- Compatible with digital music file formats of up to 24 bits at sample rates up to 192 KHz including: **AIFF, FLAC, WAV, MP3, M4A** (MPEG-4 Audio), **OGG**

- User upgradable firmware web apps
- Optional IR Remote Control
- Remote 12 Volt On/Off Trigger (IN & OUT via 3mm/2 conductor phone jacks)
- Compatible with USB flash drives (Memory Sticks, *Thumb Drives*) and USB Hard Disc Drives
- Cosmetically matches C-Series BP26, MPS2, BDA-1, BCD-1, etc

NETWORK VERSUS LOCAL CONTROL

NETWORK: In this context NETWORK refers to any control method that physically interconnects to the BDP-1 through its Ethernet port. These methods include *Minion*, a Firefox web browser add-on application and the *mPod* app for iPod Touch or iPhone, and similar web base applications. All computer network control methods require the use of a Web browser application. Using an iPod Touch as a remote control requires a wireless home computer network with a Web Browser. The BDP-1 interfaces to the home computer network's router via its Ethernet port. **LOCAL:** includes the front panel push button switches and alpha-numeric/dot matrix display and infra-red remote controls like Bryston's BR2.

See *Operational Notes* for more information.

BR2 REMOTE CONTROL (OPTIONAL)

The BR2 infra-red remote control can be used with the BDP-1 to control the basic PLAY, STOP, PAUSE, FORWARD & REVERSE functions. The BR2 is a multi-function remote capable of operating not only the BDP-1, but also the BCD-1 CD player, BDA-1 digital-to-analog converter and many Bryston preamps and integrated amplifiers such as the BP26, BP6, BP16, B60R and B100.

For more information see the *BR2 Owner's Manual*.

POWER CONSIDERATIONS:

In general, if your BDP-1 has a three prong grounded line cord you can reduce the possibility of local ground loops which could cause hum or noise in the system by plugging its line cord into the same wall outlet next to the power amp and other equipment

in your system.

FUSES & ELECTRICAL SAFETY:

The BDP-1 contains two (5x20mm cylindrical) glass fuses, one for the standby power supply and one for the main linear power supply. IF it should become necessary to replace either of these fuses we recommend that you seek the assistance of qualified service personnel. If you decide to change the fuse yourself we advise the following:

- 1st) Turn off the BDP-1
- 2nd) Disconnect ALL cables from the rear of the BDP-1, especially the power cord.
- 3rd) Remove all 10 screws securing the top cover to the chassis and remove the top cover.
- 4th) Locate the 5x20mm glass fuses on the power supply board at the rear left corner of the unit (near the IEC power inlet). Replace blown fuses only with the same type and value. All fuses are rated 250V and are slow acting (time lag) types. Refer to the Fuse label inside the unit for the exact replacement values.
- 5th) Replace the top panel and all screws and reconnect all cables before plugging in the unit and turning it back on.

MAINS VOLTAGE	STANDBY FUSE		MAIN FUSE	
	mA	Part Number	mA	Part Number
100	250	218.250	500	218.500
120	250	218.250	500	218.500
200	315	218.315	315	218.315
230 240	315	218.315	315	218.315

FIRMWARE UPDATES

BDP-1 firmware updates will periodically be available from Bryston. To install updates you will have to have your BDP-1 connected, via its Ethernet connection, to a router or computer with an internet connection. Enter *bryston-bdp-1.local* in the address bar of your computers web browser to connect to the BDP-1 and select **Firmware** from the list of choices that is displayed. A list of available updates should now be displayed. Click on the desired file-name to initiate the update.

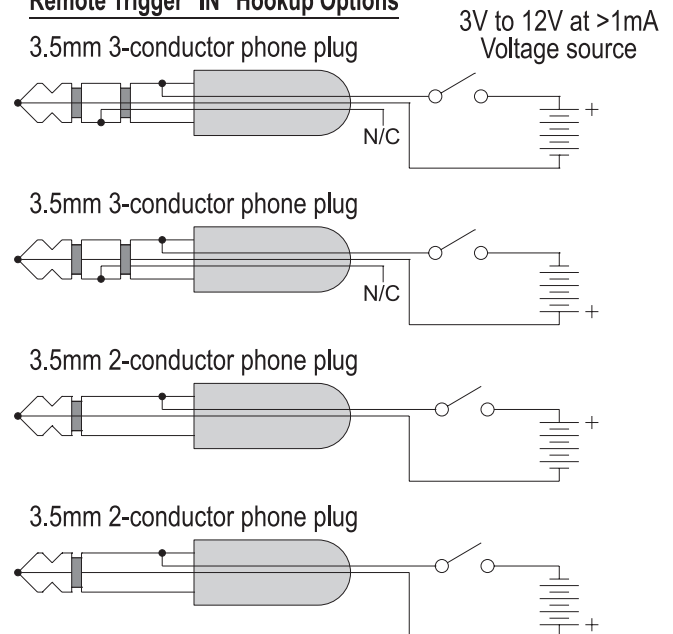
To determine which version of firmware is running on your BDP-1, use the front panel navigation keys to go back to the top of the BDP-1's menu. Then push the UP key \wedge again to display the firmware version number and its date on the 2nd line of the display. Press the DOWN \vee arrow navigation button to display the units IP address (this would be use-

ful if *Bonjour* or a similar service discovery protocol isn't installed on your personal computer and you have to use the actual IP address instead of the name *bryston-bdp-1.local*). With the IP address displayed, pressing the LEFT button \leftarrow will display the units MAC address.

REMOTE TRIGGER

The TRIGGER IN and OUT connectors (3.5mm 2-conductor phone jacks) allow for implementation of a hard wired remote power ON/OFF control. The INput can accept any DC voltage between 3 and 12 volts DC and the input is polarity insensitive as the input voltage is bridge rectified. A minimum control voltage of 3Vdc @ 1mA is required to trigger the unit ON. As soon as the BDP-1 has powered up, whatever control voltage is present at the IN jack will be connected to the Trigger OUT jack via an isolated transformer allows for daisy chaining several pieces of equipment to a single remote control voltage signal.

Remote Trigger "IN" Hookup Options



DISPLAY BRIGHTNESS & AUTO SHUTOFF


To bring up a brightness and auto shutoff time delay menu, press the UP \wedge and LEFT \leftarrow menu navigation buttons in rapid succession. Use the UP \wedge and DOWN \vee buttons to switch between setting the brightness (from 1 to 4) and the time delay (from always on, 10 seconds, 1 minute, 5 minutes, etc.) using the LEFT \leftarrow & RIGHT \rightarrow buttons. The menu will disappear approx. 10 seconds after the last button press.




BDP-1 FRONT PANEL:

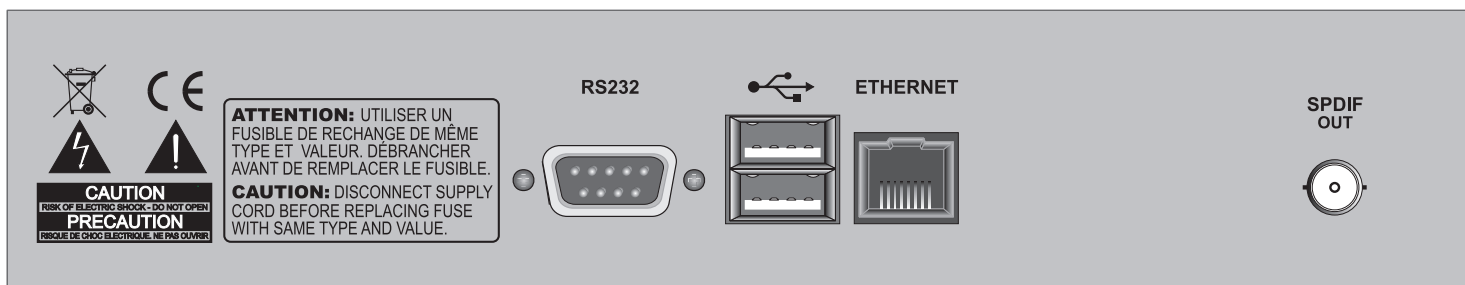


FRONT PANEL

- ① **USB INPUTS:** Two USB_A receptacles are located on the front panel and two more are located on the rear panel. These are USB-2 inputs but are USB-1 compatible. See also item 8 on the next page
- ② **INFRA-RED SENSOR** for IR remote controls such as Briston's BR2. The BR2 can remotely control the basic drive functions (PLAY, PAUSE, STOP, PREVIOUS, NEXT)
- ③ **DOT MATRIX DISPLAY:** Approximately two rows of 23 characters and/or graphics
- ④ **FILE/FOLDER NAVIGATION KEYS:** (UP \wedge , DOWN \vee , LEFT \langle , RIGHT \rangle) Use the UP \wedge and DOWN \vee keys to step through list of connected USB data devices (flash drives and disk drives). Then use the Right \rangle key to select a device. If the files are located within nested folders then navigate through the folders with the and keys pressing the \rangle key to select a folder and load a list of playable files within the selected folder. If the PLAY button is pressed at this point, the BDP-1 will commence playing all song files in that folder. Folders are identified by a  icon

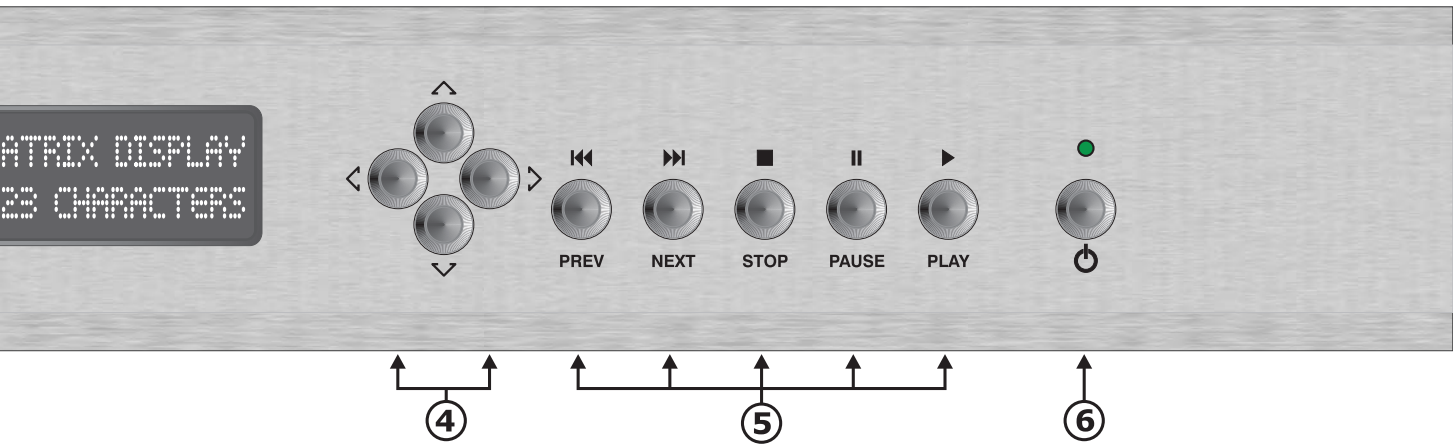
and individual music files are indicated by the  icon. Subsequent playable files will automatically be played from this point in the file list until the last playable file in the selected folder is played. See also *Operational Notes*

- ⑤ **FUNCTION KEYS:** PLAY, PAUSE, STOP, PREVIOUS & NEXT; these keys function in essentially the same manner here as they would on a CD player like the BCD-1
- ⑥ **POWER SWITCH & LED INDICATOR:** When the LED above the power switch is lit red the unit is on standby, when it is lit green, the unit is fully powered up. If your unit is equipped with a blue/red LED, then blue represents the power ON state. See also *Remote Trigger section*



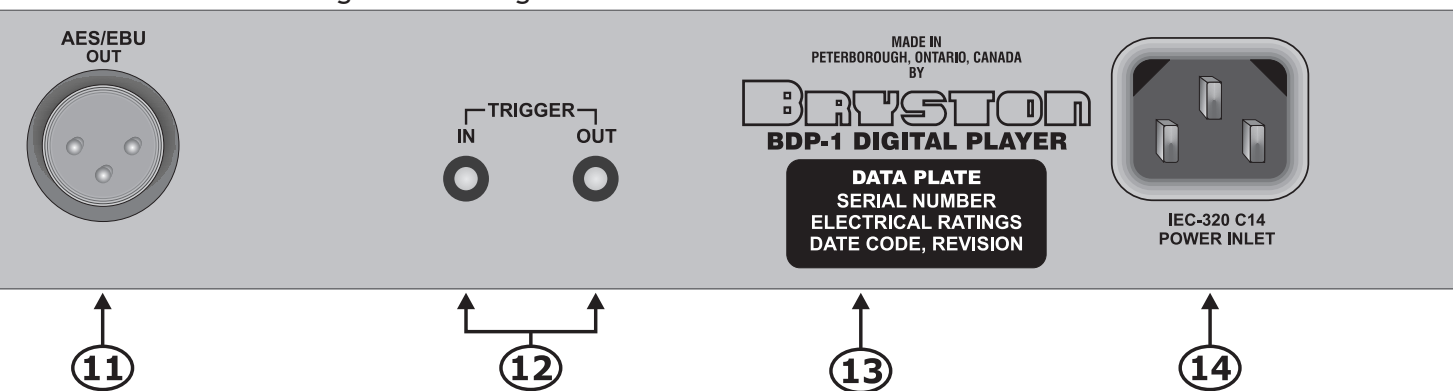
BDP-1 REAR PANEL:





REAR PANEL

- ⑦ **RS232 port:** For connecting hard wired control systems like AMX, Crestron, etc.
- ⑧ **USB INPUTS:** The BDP-1 is supplied with four USB-2 ports; two on the front panel and two on the rear panel. When connecting *port powered* USB hard disc drives, use the rear USB inputs. Use the front USB jacks for lower power USB devices like flash drives. All USB ports are USB-2 but are USB-1 compatible. All are USB ports are type A receptacles
- ⑨ **ETHERNET Port:** a CAT-5 (or CAT-5e or CAT-6) connection using an 8P8C (RJ45) connector to interface with a home computer network to facilitate remote control of the BDP-1 via personal computers and other networked devices like iPhone/iPad Touch/iPad, SmartPhones running Android, etc.
- ⑩ **SPDIF Output (75 Ohm BNC connector):** A Sony/Philips Digital Interface output port for connection to an outboard digital-to-analog converter like Bryston's BDA-1
- ⑪ **AES/EBU Output (3 pin XLR male connector)**
An AES/EBU output port for connection to an outboard digital-to-analog converter like
- Bryston's BDA-1
- ⑫ **REMOTE POWER ON/OFF TRIGGER CONTROL:** The BDP-1 is equipped with two 3.5mm two conductor phone jacks for implementing a remote power On/Off function. Supplying a DC control voltage between 3 and 12 volts (at greater than or equal to approximately 1mA) to the Trigger IN port will allow you to remotely power your BDP-1 on or off. Whatever control voltage is applied to the IN port will be routed to the OUT connector, via an isolated relay, after the BDP-1 has fully powered up. This OUT port can then be used to control other devices that are similarly equipped. The the *Remote Trigger* input takes precedence over the front panel push-button switch and as long as a valid control voltage is present at the BDP-1's Trigger IN port the unit cannot be powered Off.
- ⑬ **DATA PLATE:** This label provides the units exact model number, serial number, electrical rating and date of manufacture. Do not remove.
- ⑭ **IEC Power Inlet:** The IEC-320 C14 power inlet accepts IEC-320 C13 equipped power cords. Use only appropriate power cords that have been approved for your region.



SYSTEM CONFIGURATIONS:

MINIMAL SYSTEM CONFIGURATION

The **MINIMAL SYSTEM CONFIGURATION** (shown below) requires only a BDP-1, a BDA-1 digital-to-analog converter, a Flash Drive, interconnect cables and, of course, a sound system. The BDP-1 can operate as the hub of a completely independent (i.e. free of any computer network) high fidelity digital music system. In this minimal configuration the front panel folder/file navigation keys are used to select the files that are played.

EXPANDED SYSTEM CONFIGURATION

The **EXPANDED SYSTEM CONFIGURATION** shown on the opposite page, includes a wide range of remote control options. The only thing that is not shown is the Remote Trigger (power on/off control) hookup. Besides the BR2 infra-red remote control, which is essentially a **LOCAL** control option since it requires a line-of-sight between the remote and the BDP-1, all other remote control methods are **NETWORK** control options. Whether it is a personal computer running the *Firefox* web browser's *Minion* add-on application, or an *iPod Touch* running the *mPod* application, or Bryston's MINI and/or MAX web apps, all **NETWORK** control methods require a hard wired Ethernet connection between the network's router and the BDP-1

The *iPod Touch*, running the *mPod* application, utilizes the iPod Touch's Wifi connectivity to interface with the personal computer network via the

network router, which must be a WiFi router in this instance.

USB HARD DISC DRIVES

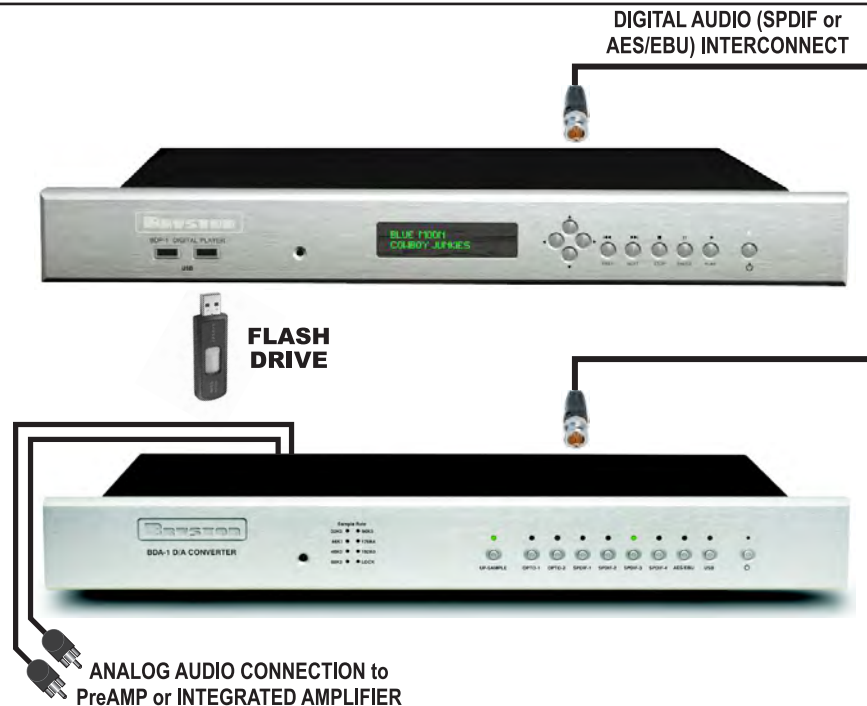
USB hard disc drives that are powered from the USB port itself should be connected to the rear USB ports which are capable of supplying the increased power required. USB hard disk drives that are powered from a separate power supply can be connected to any USB port on either the front or rear of the BDP-1.

APPLICATION SOFTWARE

The *Bryston-MINI* and *Bryston-MAX* web apps that are built in to the BDP-1 provide the easiest way of remotely controlling the BDP-1 from either a personal computer (*Bryston-MAX*) or *SmartPhone* or *iPod Touch* or *iPad*. In both cases the internal programs are utilized by simply connecting the BDP-1 to a personal computer network, launching the computer or *SmartPhone's* web browser and entering the address *bryston-bdp-1.local*. The MINI version of the Bryston web app is intended for portable devices like the iPod Touch with small screens (requires iOS 3.1.2, iOS 4.0.1, Android 1.5 or Android 2.2). The MAX version is intended for the full size displays of laptop and desktop computers.

You can create your own **PLAYLISTS** by adding single songs or multiple songs to the existing playlist and touching or clicking "Save Playlist" in the menu bar. Name the Playlist and it will now show up in the menu bar on the interface.

MINIMAL SYSTEM CONFIGURATION




BDP-1 DIGITAL PLAYER

To recall a specific playlist simply touch or click on the saved playlist name and it will load the playlist.

To delete the Playlist click on Playlist in the menu bar and then hit Delete in the right hand column of the interface

Other application software options:

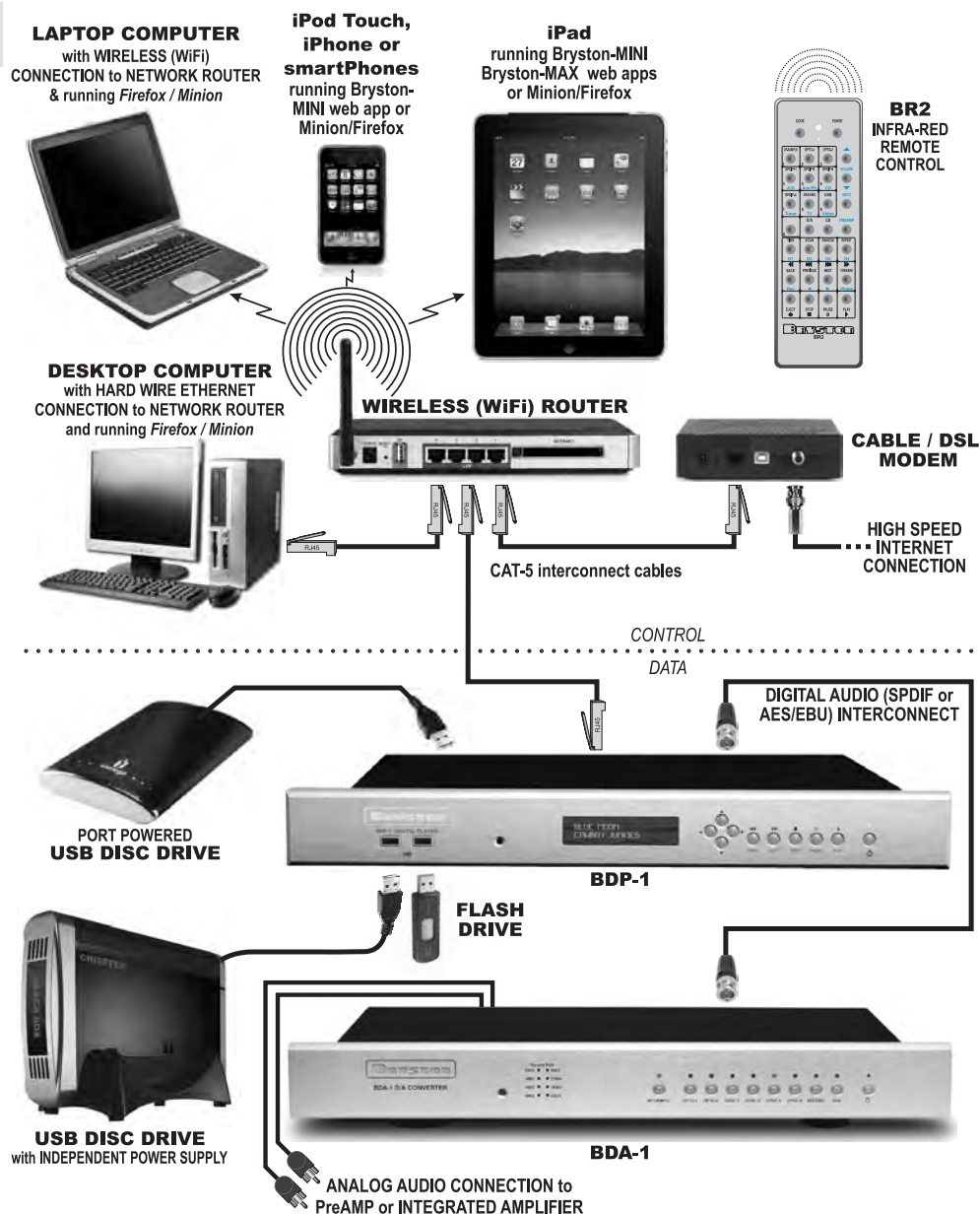
MUSIC PLAYER MINION, an add-on to the **FIREFOX** web browser, can be used to remotely control the playing of music files that are located on USB data storage devices connected directly to the BDP-1. *Minion* is available free off charge (as is *Firefox*) by first installing *Firefox* and then, from the top menu bar, selecting **TOOLS** → **ADD-ONS** and searching for “Minion” in the *Search for Add-Ons* dialog box.

Within *Minion*, select the  **TOOLS** icon and then “Manage Servers” and add “**bryston-bdp-1.local**” to make the BDP-1 available as a server.

MPoD is an iPhone/iPod Touch app available free of charge from Apple (at www.apple.com). This is a *music player daemon* (MPD) controller that allows for remote control of the BDP-1 from an iPod Touch (iPod Touch) or iPhone in a fashion similar to *Minion* on *Firefox*. Both **MPoD** and *Minion* utilize an MPD (music player daemon) within the BDP-1 running on a stripped down Linux OS. And in both applications it is necessary to setup an MPD server name (bryston-bdp-1.local).

See *Operational Notes* for more information.

EXPANDED SYSTEM CONFIGURATION

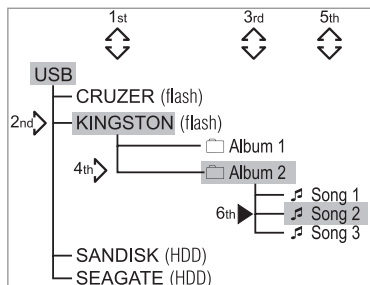


OPERATIONAL NOTES

LOCAL operation using the front panel controls:

- The initial startup of the BDP-1 can take up to 2 minutes as the built-in firmware is loaded from the internal Compact Flash memory.
- When any **USB storage device** (hard disc or flash drive) is **first plugged in** to the BDP-1 its contents will be scanned by the BDP-1 and an on-the-fly playlist will be constructed. This playlist will consist of only those file types that the BDP-1 can play (AIFF, FLAC, WAV, MP3, M4A & others; see MPD in the glossary for a more complete list).
- The more files are on the USB storage device, the longer the scan and build process will take. A large hard disc drive with several thousand songs could take up to a few minutes to be processed. As this scan and build process is initiated the message “UPDATING...” will be temporarily displayed on the front panel dot matrix display.
- When multiple USB storage devices are plugged into the BDP-1 the top level of the navigation menu will be USB. Specific USB devices are listed beneath, then folders with each device and finally individual file names:

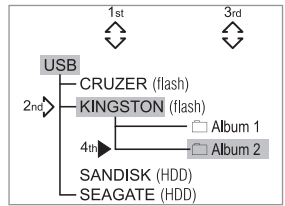
In the illustration at the right, 4 USB devices (2 flash drives and 2 hard disc drives) are connected to the BDP-1. As an example, if you wanted to play the 2nd song on the 2nd album folder on the Kingston flash drive, then you would:



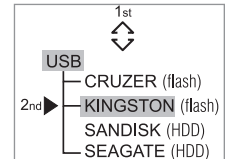
- 1) Press the down navigation button ∇ to select the USB device named “Kingston”.
- 2) Press the RIGHT navigation button \triangleright to load the folder (this instructs the BDP-1 to scan the folder and build an on-the-fly playlist of that particular folder’s contents).
- 3) Use the UP \wedge and DOWN ∇ navigation keys to step through and select the desired folder (in this example named “Album 1” and “Album 2”)
- 4) Press the RIGHT button to load the folder’s file list.
- 5) Use the UP and DOWN navigation keys to move to the desired song.
- 6) Press the RIGHT arrow key \triangleright or the PLAY

\triangleright button to play the song.

- To play all the songs in the “Album 2” folder: Perform steps 1 to 3 of the above example and then, with the “Album 2” folder name displayed press PLAY \triangleright .



- To play all the songs in the USB flash drive named “Kingston”: Perform steps 1 and 2 from the above examples and then, with the “Kingston” device name displayed, push PLAY \triangleright .
- To play all the songs in all connected USB devices, with “USB” displayed press the PLAY \triangleright button.



SETUP

QUICK START:

To get your BDP-1 up and running quickly:

- Once the BDP-1 is connected to your BDA-1 or other compatible D/A converter, power up the BDP-1 and it will *Initialize*. This process may take up to 2 minutes. When initialization is finished the display will show “BRYSTON BDP-1”.
- Insert a USB Flash drive or hard disk drive into one of the 4 USB sockets. Once the scanning is complete the displayed message (“Updating”) will disappear.
- Press the RIGHT \triangleright navigation button and the BDP-1 will read the contents of the drive and built an on-the-fly internal playlist, “USB” will be displayed. If the USB drive contains folders, these will be displayed first. Use the UP \wedge & DOWN ∇ navigation buttons to select a folder or song title and then press right navigation button again to either load the contents of the folder or PLAY the song title displayed. Note that loading large drives or folders may take up to a minute or two. This may take up to a minute or more depending on the size of the drive and the number of files. Use the navigation buttons to select other songs, folders or devices (up to 4 USB devices can be connected) or use the NEXT and PREVIOUS buttons on either the BDP-1’s front panel or on the BR2 infra-red remote control.

SETUP for BDP-1 & iPod Touch/iPhone/iPad:

- Connect the BDP-1 to your household computer network by connecting the Ethernet port on the BDP-1 to a wireless (WiFi) router using a CAT-5 (or CAT-6) cable.
- Plug in a USB drive (Flash drive or hard disc drive) containing compatible music files into one of the BDP-1's USB ports. Note: on Window's PC's you may have to have *Bonjour* (see Glossary) installed. *Bonjour* is installed as part of Apple OS's.
- Launch your web browser and enter the ***bryston-bdp-1.local*** in the address box. When using iPhone, iPod Touch or iPad, Apple iOS-4 is recommended.
- Select the Bryston-MINI client application (Bryston-MAX is intended for web browsers using full size displays). When the application connects to the BDP-1, and assuming that one or more USB drives are connected, the display should show "USB". Expand "USB" to display folders and/or song lists and use the control buttons to control playback.

or

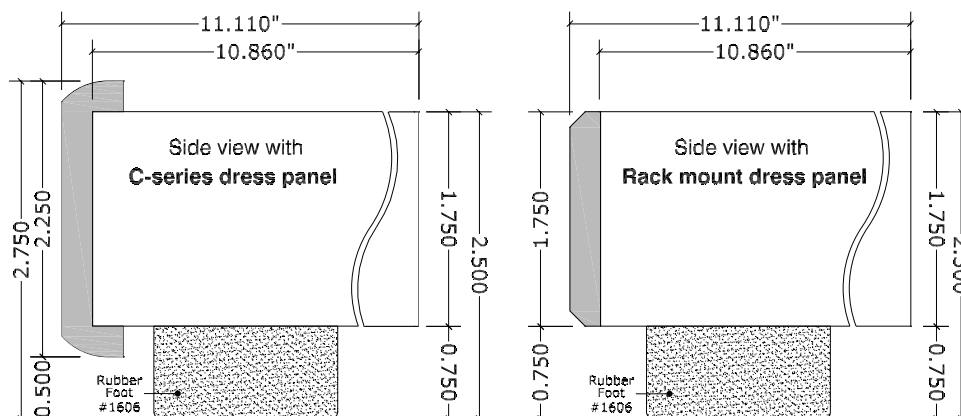
- Download and install the free iPad/iPhone/iPod Touch program *mPoD* on your iPad/iPhone/iPod Touch and under Connection Preferences enter ***bryston-bdp-1.local*** You can now use your iPad/iPhone/iPod Touch to remotely control the BDP-1 and playback any compatible music files located on the USB drives connected to it.

SETUP for BDP-1 & NETWORKED COMPUTER:

- Connect the BDP-1 to your household computer network by connecting the Ethernet port on the BDP-1 to a wireless (WiFi) router using a CAT-5, CAT-5e OR CAT-6 cable.
- Plug in a USB drive (Flash drive or hard disc drive) containing compatible music files (AIFF, FLAC, WAV, MP3, M4A) into one of the BDP-1's USB ports. Note: on Window's PC's you may have to have *Bonjour* (see Glossary) installed. *Bonjour* is installed as part of Apple OS's.
- Select the Bryston-MAX application (the Bryston-MINI application is intended for web browsers using small screens). When the application connects to the BDP-1, and assuming that one or more USB drives are connected, the display should show "USB". Expand "USB" to display folders and/or song lists and use the control buttons to control playback.

or

- Download and install the *Minion* add-on to the *Firefox* web browser (both programs are free from mozilla.org) and enter ***bryston-bdp-1.local*** in SETUP → CONNECTION PREFERENCES. You can now use your iPad/iPhone/iPod Touch to remotely control the BDP-1 and playback any compatible music files located on the USB drives connected to it.

DIMENSIONS:

- Shipping Wt: 15.2 Lbs (6.9 Kg)
- Maximum width is determined by the front dress panel. There are two types available; the C-series dress panels, in black or silver, are 17" wide. The rack mount dress panels are also 17" wide, but they allow the addition of rack mount adaptor brackets to either side of the unit allowing it to be mounted in a standard 1U (1.75" high x 19" wide) rack space. The chassis is 16.985 inches wide.

GLOSSARY**AES/EBU:**

This digital audio standard is also called AES3 and was published as part of IEC 60958. It is used for carrying digital audio signals between devices. Developed by the Audio Engineering Society (AES) and the European Broadcasting Union (EBU) Several different physical connectors are defined as part of the overall group of standards. A balanced connection (IEC 60958 Type I) uses 3 conductor, 110 ohm twisted pair cabling with a 3 pin XLR connector (this is the variant used on the BDP-1 and other Bryston products). See also SPDIF which is a variant of the AES3 standard.

BONJOUR

Bonjour is a service discovery protocol. Bonjour locates devices such as printers, the BDP-1 and other computers, and the services that those devices offer on a local network using multicast Domain Name System service records. It is available as freeware from Apple Inc. for personal computers running Apple or Windows operating systems. It is usually pre-installed on Apple computers but *may* have to be installed on some Windows PC's.

MUSIC PLAYER MINION

Music Player Minion is a client for the Music Player Daemon network music player. The purpose of MPD and its clients is to allow music playback on one PC (such as a home media server) to be controlled from another over the network. Or, in this case, to allow control of the BDP-1 from a networked computer. You'll will need to enter the MPD host and port information in Settings. As an add-on to the Firefox web browser, you must first have Firefox installed before *Music Player Minion* can be installed. *Minion* is available free off charge (as is Firefox) from www.mozilla.com .

MPD (Music Player Daemon):

MPD is a server that plays music and provides a queue and control for your music. It can be controlled through various clients locally and over the network with TCP. It is also a music file decoder with various open source audio input plug-ins and output plug-ins, using multiple outputs simultaneously if requested. It is not a full featured music player program. A version of MPD is build into the BDP-1 but is limited to decoder, queue and control functions. The current installed version of MPD (0.15.8) supports the following audio file formats: mp3, mp2, ogg, oga, ogg, oga, flac, wav, au, aiff, aif, aac, m4a, mp4, mpc, wv, sid, 16sv, 3g2, 3gp, 4xm, 8svx, aa3, aac, ac3, aif, aifc, aiff, al, alaw, amr, anim, apc, ape, asf, atrac, au, aud, avi, avm2, avs, bap, bfi, c93, cak, cin, cmv, cpk, daud, dct, divx, dts, dv, dvd, dxa, eac3, film, flac, flc, fli, fil, flx, flv, g726, gsm, gxf, iss, m1v, m2v, m2t, m2ts, m4a, m4v, mad, mj2, mjpeg,

mjpg, mka, mkv, mlp, mm, mmmf, mov, mp+, mp1, mp2, mp3, mp4, mpc, mpeg, mpg, mpga, mpp, mpu, mve, mvi, mxf, nc, nsv, nut, nuv, oga, ogm, ogv, ogx, oma, ogg, omg, psp, pva, qcp, qt, r3d, ra, ram, rl2, rm, rmvb, roq, rpl, rvc, shn, smk, snd, sol, son, spx, str, swf, tgi, tgq, tgv, thp, ts, tsp, tta, xa, xvid, uv, uv2, vb, vid, vob, voc, vp6, vmd, wav, wma, wmv, wsaud, wsvga, wv, wve .

mPoD:

mPoD is a freeware application available from Apple Inc. for iPod Touch, iPad and iPhone. MPoD is a remote control for MPD (Music Player Daemon). Note that MPoD is not a stand-alone application: it will only work in combination with MPD, and it doesn't play music itself. You can find out more about MPD at <http://www.musicpd.org>. mPoD is essentially a front end for MPD.

Thumb Drive:

USB flash memory storage device also referred to as a flash drive, memory stick, USB stick, etc.

USB HDD:

Universal Serial Bus Hard Disk Drive. May be powered directly from the USB port (sometimes referred to as *self-powered*) or by an external power supply.

SPDIF:

Sony/Philips Digital Interface or Sony/Philips Digital Interconnection Format. It is both a data link layer protocol and a set of physical layer specifications for carrying digital audio signals between devices and components over either optical or electrical cable. The BDP-1 uses BNC connectors which are intended to be used with 75 Ω coaxial cable. SPDIF is essentially an unbalanced version of the AES/EBU format.

FIREFOX

Firefox is a freeware web browser for personal computers available free of charge from Mozilla Corp. It must be installed before the *Music Player Minion* add-on can be downloaded and installed.

IP address

An Internet Protocol address (v4) is a 32 bit number usually expressed as 4 bytes translated into decimal numbers (e.g. 255.255.255.255) used for both identification and addressing of devices and nodes on the network.

MAC Address

Media Access Control address is binary number used as a unique identifier built into firmware or hardware. It is usually shown as a group of 6 hexadecimal number separated by colons (e.g. 01:23:45:67:89:AB). Each BDP-1 has its own unique MAC address built into it.