BRYSTON BDP-1USB

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 "danger-ous 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 pro-vided 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 when moving it & 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.
UNPLUG MAINS CORD DURING TRANSPORTATION.

BRYSTON LIMITED WARRANTY

Bryston analog audio circuits 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 circuits 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 manu-facture. 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 only return shipping costs for the full length of the specific products 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.ca

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.ca

BRYSTON SERVICE outside Canada and the USA:

contact your local distributor *or*

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

SAFETY_INSTRUCTIONS_WARRANTY_CONTACT_SHEET_20120816

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General

Welcome

Thank you for your purchase of a Bryston BDP-1USB; a state-of-the-art digital music player that can play back the vast majority of digital music file formats including today's most popular lossless codecs including AIFF, FLAC, WAVE, APPLE LOSSLESS, and more at resolutions up to 192kHz / 24 bit PCM and up to DSD 128 into compatible USB DACs.

Music stored on both locally attached USB media and network attached storage (NAS) devices is aggregated and indexed into a single library. The BDP-1USB includes intuitive software for controlling your BDP that requires no installation and is accessible from any modern web browser. A wide variety of compatible third-party applications are also available for iOS and Android mobile devices. In stand-alone systems, the BDP-1USB can also be controlled via front-panel buttons and the 2-line dot-matrix display, or with our optional BR-2 IR remote control. Integration with whole-house control systems is also possible using the provided RS-232 connector.

We have designed the BDP-1USB to provide the highest sound quality possible and an enjoyable user experience free from the hassles normally associated with computer-based audio playback.

A Quick Start Guide has been provided to help you setup and play music right away. This manual provides a technical reference for hardware, setup, interconnectivity, warranty, and safety. Bryston stands committed to ongoing improvement and software development. For that reason, we have separated the Firmware User's Manual in which you'll find detailed information on day to day use from this document. See www.bryston.com for the most current edition.

Again, thank you for choosing Bryston.

Features

Extensive technical research and development has been undertaken to ensure the highest quality playback and durability of your BDP-1USB. The following details describe some of these features.

- Linear power supply for audio processing circuitry.

- A separate power supply for microprocessors and for maintaining standby mode.

- Four USB 2.0 (backwards compatible with USB 1.1 and 1.0 specifications) ports.

- Wide variety of control options including:
  - Front panel push button controls
  - Responsive web interface compatible with iOS, Android, Macintosh, and windows devices
  - Third party app compatibility with diverse software such as MPoD and MPaD for iOS, and MPDroid for Android.
  - IR Remote control such as Bryston's BR-2 or other universal remote controls
  - RS-232 2-way control

- Interconnectivity with USB Class 2.0 digital to analog converters including those that support DSD over PCM (DoP)

- Extensive compatibility with different music file formats. See current firmware manual for details.

- User upgradeable firmware

- Remote 12 Volt On/Off trigger (IN & OUT) via 3.5mm / 2 conductor phono jacks

- Compatible with USB hard disk, and solid-state storage media as well as network attached storage.

- Cosmetic unity with other Bryston products.

Power Considerations

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

1. Turn off the BDP-1USB
2. Disconnect ALL cables from the rear of the BDP-1USB especially the power cord.
3. Remove all 10 screws securing the top cover to the chassis using a Torx T8 driver and remove the top cover.
4. Locate the 5x20mm glass fuses on the power supply board (near the IEC power inlet). Replace blown fuses only with the same type and value. All fuses are rated at 250V and are slow acting (time lag) types. Refer to the fuse label inside the unit for the exact replacement value.
5. Replace the top cover and all screws and reconnect all cables before reconnecting the unit to AC power 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-1USB firmware updates will periodically become available from Bryston. Upon availability, the Dashboard on the web interface will notify you. To identify which version of firmware you are currently running, you may either use the front panel, or the web interface. To determine the current version of the firmware from the front panel, press the up ⌃ and left ‹ buttons to return to the home screen. Then press the up ⌃ button.
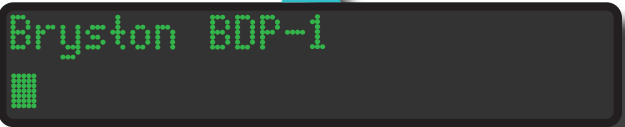
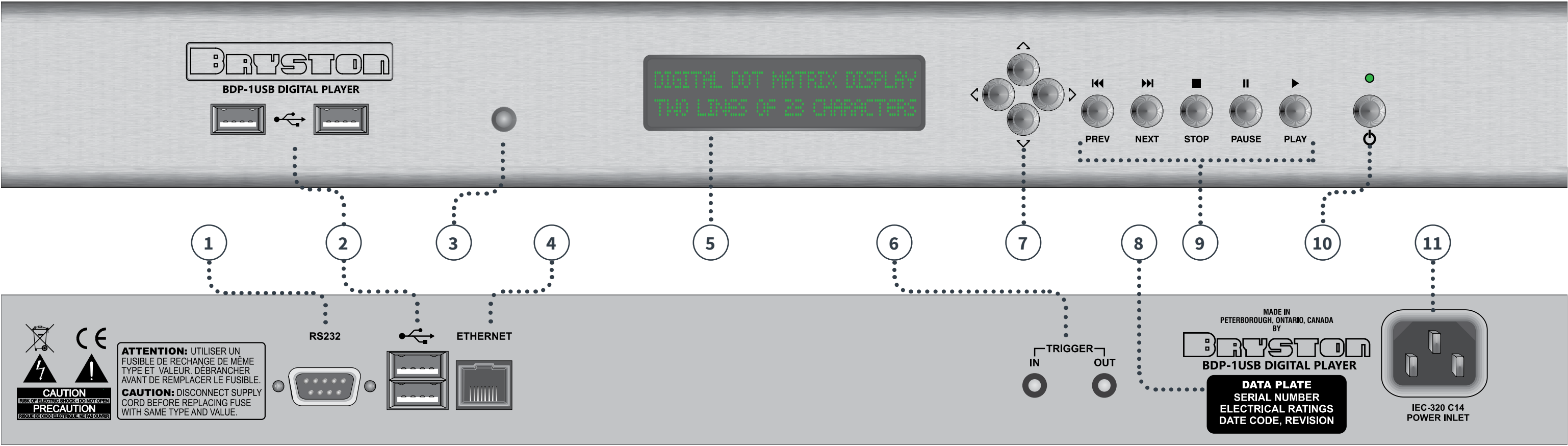The example indicates that the firmware version is S2.04 2014-06-08.

To discover your current firmware version from the Bryston Web Interface, please consult your Firmware User's Manual.

Display Brightness & Auto Shutoff

Your BDP-1USB is equipped with a very high quality VFD dot-matrix display designed to operate without fail for many years. To adjust its brightness and configure its automatic shutoff feature, press ⌃ and ‹ in rapid succession by sliding your finger across them.

Use the up ⌃ and down ⌄ buttons to switch between setting the brightness (from 1 to 4) and the time delay (from always ON, 10 seconds, 1 minute, 5 minutes, OFF) using the left ‹ and right › buttons. The menu will disappear approximately 10 seconds after the last button press and settings will be saved.

BRYSTON BDP-1USB

BDP-1USB

BRYSTON
BDP-1USB DIGITAL PLAYER

DIGITAL DOT MATRIX DISPLAY
TWO LINES OF 23 CHARACTERS

PREV   NEXT   STOP   PAUSE   PLAY

RS232   ETHERNET

TRIGGER
IN   OUT

MADE IN
PETERBOROUGH, ONTARIO, CANADA
BY

BRYSTON
BDP-1USB DIGITAL PLAYER

DATA PLATE
SERIAL NUMBER
ELECTRICAL RATINGS
DATE CODE, REVISION

IEC-320 C14
POWER INLET

ATTENTION: UTILISER UN
FUSIBLE DE RECHANGE DE MÊME
TYPE ET VALEUR. DÉBRANCHER
AVANT DE REMPLACER LE FUSIBLE.
CAUTION: DISCONNECT SUPPLY
CORD BEFORE REPLACING FUSE
WITH SAME TYPE AND VALUE.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
PRECAUTION
RISQUE DE CHOC ÉLECTRIQUE. NE PAS OUVRIR

Front and Rear Panel

1. RS232:
For connecting hard-wired control systems like AMX, Crestron, Savant, etc. See Firmware User's Manual to enable.

2. USB Ports:
The BDP-1USB has four USB 2.0 ports; two each on the front and back. When connecting port-powered USB drives, use the rear ports. Low power draw or self powered devices like thumb drives and DACs can use either the front or rear. The combined amperage draw from the two rear ports cannot exceed 500mA.

3. Infrared Sensor:
Receives control signals from IR remote controls such as the Bryston BR-2 to control basic transport operations (play, pause, next, etc.)

4. Ethernet Port:
Cat-5 or later ethernet with RJ45 connector

(standard ethernet network cable) connects here to facilitate local network and internet connectivity for control via tablet, smartphone and computer devices. Port is 10/100 compatible.

5. Dot Matrix VFD Display:
Provides basic visual feedback when navigating menu or playing back music.

6. Remote Power ON/OFF Trigger:
The BDP-1USB 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 1mA) to the Trigger IN port will allow you to remotely power your BDP-1 on or off. The control voltage is applied to the IN port will be routed to the OUT connector via an isolated relay after the BDP-1USB has fully powered up. The remote trigger input takes precedence over the front panel push-button

switch. When a valid control voltage is present at the IN port, the unit cannot be powered off.

7. Navigation Keys:
Up ∧, Down ∨, Left ‹, and Right ›. Use the Up and Down keys to step through a list of connected USB storage devices (thumb drives, hard drives) and to scroll through menus and options. Use Right and Left keys to select options and step backwards through the hierarchy respectively. See "Front Panel Menu Navigation" on page 10 for the full menu tree. When using these keys to initiate playback, the Right key will open selected folders identified by a 🗁 icon and will Play the selected track when a file identified by the ♫ icon is selected. Press the Play button when a drive, folder or playlist is selected to play all files contained within.

8. Data Plate:
This label provides the unit's exact model number, serial number, electrical rating and

date of manufacture. Do not remove.

9. Transport Function Keys:
Play, Pause, Stop, Previous, and Next function in essentially the same manner as they would on a CD player. Next and Previous skip ahead or behind the currently queued track in the playlist.

10. Power Button & LED Indicator:
When the LED above the power switch is lit red, the unit is in standby. When it is green, the unit is fully powered up. If your unit is equipped with an optional blue/red LED, blue represents the power on state.

11. IEC Power Inlet:
The IEC -320 C14 power inlet accepts IEC-320 C13 equipped power cords such as the unit provided. Use only appropriate power cords that have been approved for your region.

Connecting To Your System

The BDP-1USB is designed for the explicit purposes of playing back your digital music library in a bit-perfect manner. As a very precisely engineered digital audio device, sound quality can vary based on the digital to analog converter to which it is connected. A high quality converter such as those offered by Bryston are recommended. Compatible digital to analog converters will have USB inputs that are **USB Audio Class 2.0 Compliant.** No other digital outputs are provided.

The BDP-1USB also requires that you store and organize your music library on a connected USB drive and/or via network attached storage.

Thus, the minimum hookup requirements include attaching a music storage device like the portable hard drive pictured below and a USB DAC such as the BDA2 to the BDP-1USB.

Audio Connection

Prior to powering your BDP-1USB on, connect your BDP-1USB to your DAC using a cable with a USB "A" Type connector on the BDP-1USB end, and the end specified by the DAC manufacturer on the other. For a Bryston BDA, that is a "B" Type connector.

USB "A" Type   *USB "B" Type*
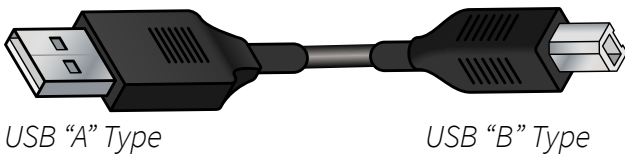
Local Storage Connection

Your BDP-1USB can accept most USB storage media including thumb drives, buss-powered hard drives, and self-powered hard drives. Buss powered hard drives must be connected at the rear USB ports, and the total power draw from the two rear ports combined cannot exceed 500mA. Please check the literature that came with your hard drive to determine its power requirements if you have trouble with your drive.

The preferred disk format scheme for USB attached media is FAT32. HFS+ and EXT3 are supported as well. NTFS is not recommended.

Network Connection

Your BDP-1USB features a single 10/100 ethernet port designed to connect to your home network router to facilitate control via portable devices or computer, and to obtain internet connection useful for streaming internet radio, downloading firmware updates, and if needed, permit Bryston support personnel to acces the unit via service mode upon your request.

Use a CAT-5, CAT-5e, or CAT6 patch cable to connect your BDP-1USB to an available ethernet port in your room, or directly to your home router.

Successful network connection will be indicated by green and amber LEDs lighting on the BDP-1USB ethernet port, and by assignment of an IP address

by the router. View the IP address on the front panel by pressing the Down ⌄ key. Your IP Address begins after eth0
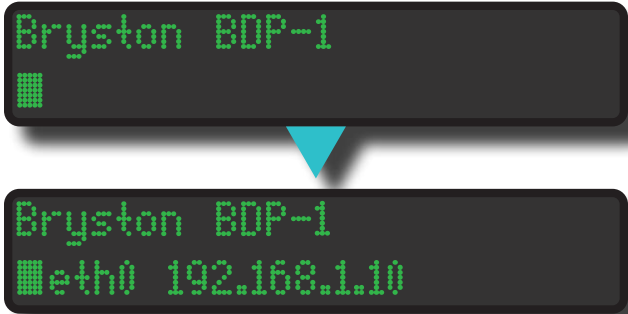
You can use this IP address to access the Bryston Web Interface from any web-enabled device on the same local network as the BDP-1USB. Enter the IP address in your web browser's address bar. Also, any device running the Bonjour service will respond to the URL **http://bryston-bdp-1.local** instead of the IP address. All Macintosh computers and iOS have this service built in. Windows computers can run this service once downloaded from the Apple website. Android devices do not currently support Bonjour and must use the numerical IP address.

Since virtually all modern routers assign IP addresses to client devices, this IP address may periodically change which can be a nuissance. To fix your BDP-1USB's IP address, either invoke the

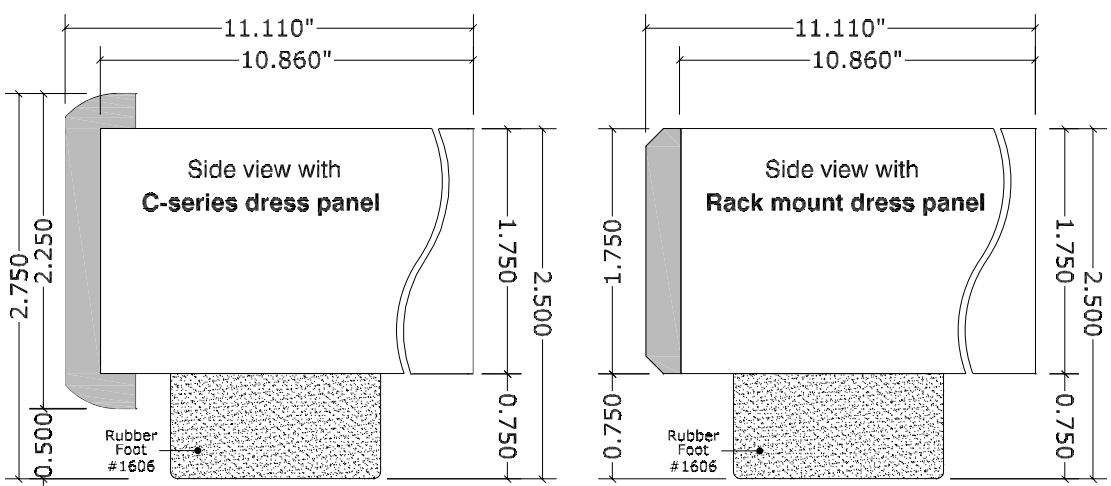DHCP reservation function in your router, or simply set a Static IP address in Bryston Web Interface. Instructions on how to do so are located in the Firmware User's Manual.
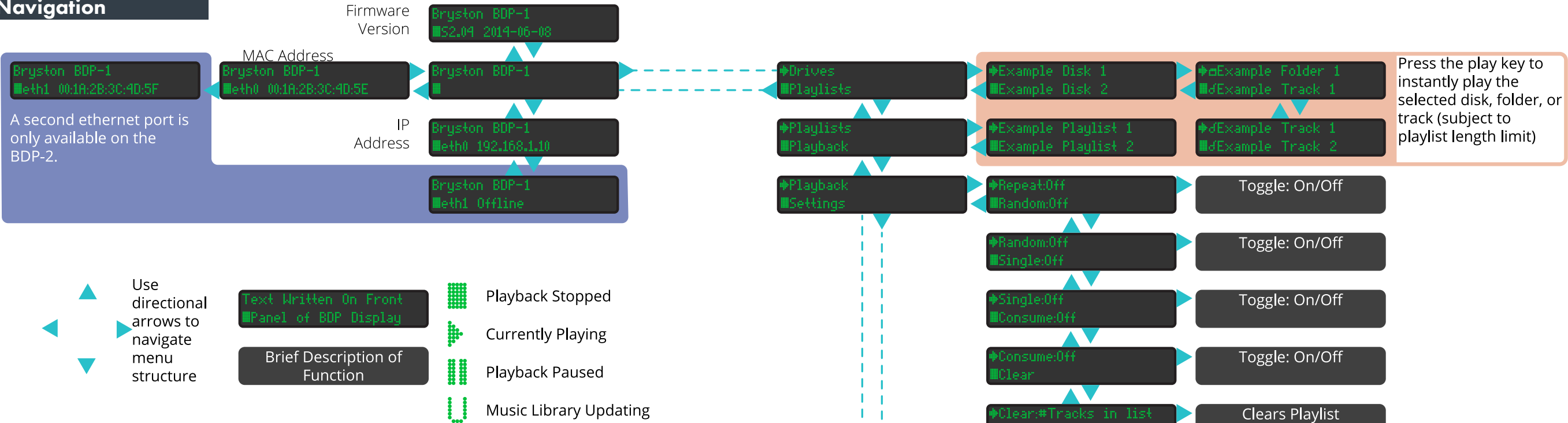
Wireless Bridge

If you do not have easy access to an ethernet connection in your listening room, you may purchase an after-market "wireless bridge" from most computer electronics stores. Contact Bryston for further information as needed.
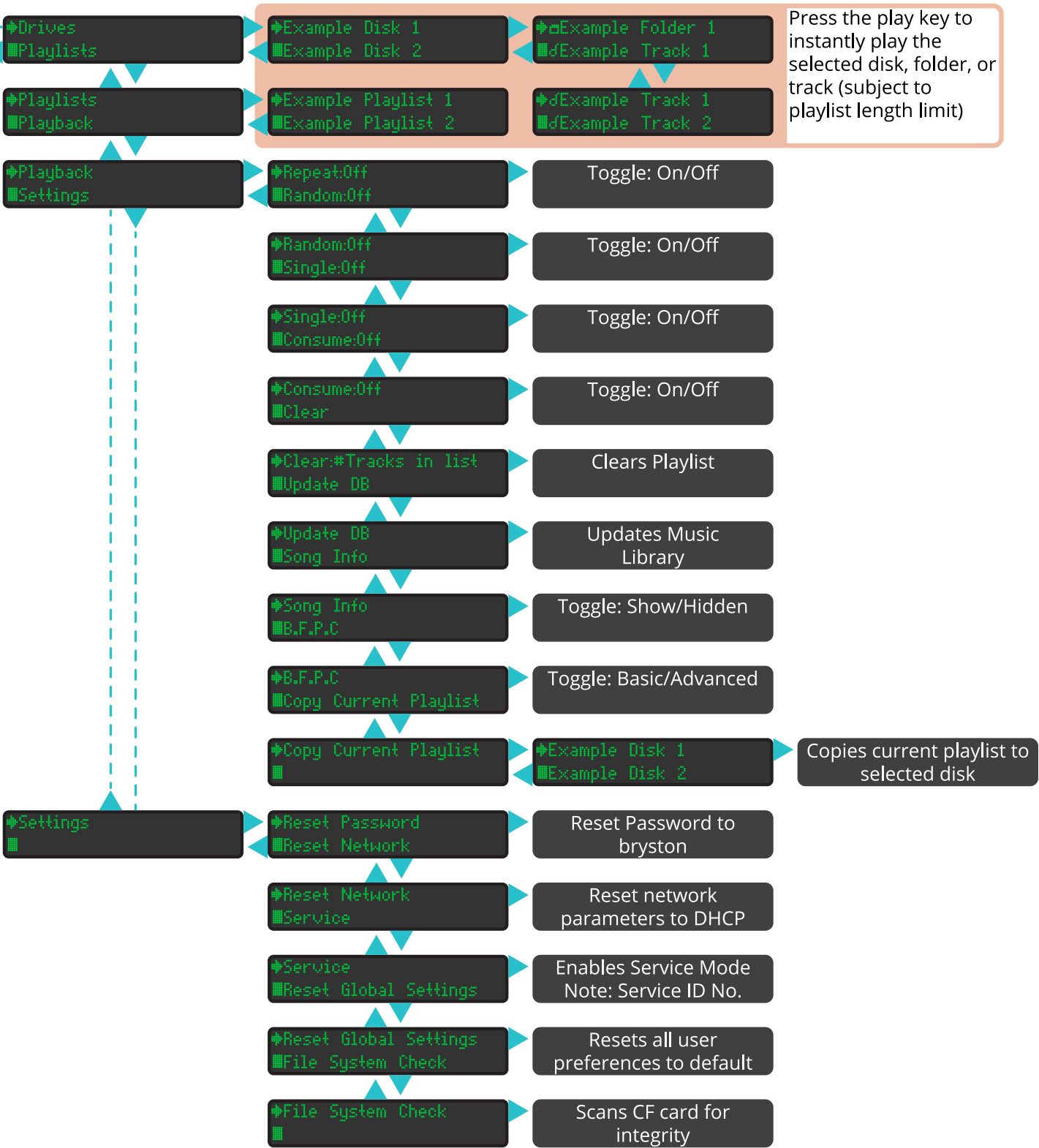
Dimensions

BRYSTON **BDP-**1USB

Front Panel Menu Navigation

Firmware Version

```
Bryston BDP-1
▮S2.09 2014-06-08
```

MAC Address

```
Bryston BDP-1
▮eth0 00:1A:2B:3C:4D:5E
```

```
Bryston BDP-1
▮eth1 00:1A:2B:3C:4D:5F
```

A second ethernet port is only available on the BDP-2.

```
Bryston BDP-1
▮
```

IP Address

```
Bryston BDP-1
▮eth0 192.168.1.10
```

```
Bryston BDP-1
▮eth1 Offline
```

```
➤Drives
▮Playlists
```

```
➤Playlists
▮Playback
```

```
➤Playback
▮Settings
```

```
➤Example Disk 1
▮Example Disk 2
```

```
➤Example Playlist 1
▮Example Playlist 2
```

```
➤Repeat:Off
▮Random:Off
```

```
➤Random:Off
▮Single:Off
```

```
➤Single:Off
▮Consume:Off
```

```
➤Consume:Off
▮Clear
```

```
➤Clear:#Tracks in list
▮Update DB
```

```
➤Update DB
▮Song Info
```

```
➤Song Info
▮B.F.P.C
```

```
➤B.F.P.C
▮Copy Current Playlist
```

```
➤Copy Current Playlist
▮
```

```
➤♫Example Folder 1
▮♫Example Track 1
```

```
➤♫Example Track 1
▮♫Example Track 2
```

Press the play key to instantly play the selected disk, folder, or track (subject to playlist length limit)

Menu item	Description
Repeat/Random	Toggle: On/Off
Random/Single	Toggle: On/Off
Single/Consume	Toggle: On/Off
Consume/Clear	Toggle: On/Off
Clear	Clears Playlist
Update DB	Updates Music Library
Song Info	Toggle: Show/Hidden
B.F.P.C	Toggle: Basic/Advanced

```
➤Example Disk 1
▮Example Disk 2
```
Copies current playlist to selected disk

```
➤Settings
▮
```

```
➤Reset Password
▮Reset Network
```
Reset Password to bryston

```
➤Reset Network
▮Service
```
Reset network parameters to DHCP

```
➤Service
▮Reset Global Settings
```
Enables Service Mode Note: Service ID No.

```
➤Reset Global Settings
▮File System Check
```
Resets all user preferences to default

```
➤File System Check
▮
```
Scans CF card for integrity

Legend

▲ ◄ ► ▼ Use directional arrows to navigate menu structure

```
Text Written On Front
▮Panel of BDP Display
```

Brief Description of Function

▦ Playback Stopped

▶ Currently Playing

❚❚ Playback Paused

⬛ Music Library Updating

Error Codes

Your BDP-1USB may display an error code in certain power line disruption events or if there is a problem booting. The following is a brief description of each.

ERROR 03	Microprocessor does not detect voltage on main Analog Power Supply perhaps due to blown fuse faulty power supply wiring harness. BEFORE INVESTIGATING POWER SUPPLY ISSUES, DISCONNECT MAINS POWER FROM UNIT!
ERROR 04	AC Line voltage has momentarily sagged below threshold sufficient to maintain power to main board. Minimum line voltage specs for 120V and 240V units are 100V and 190V respectively. Simply rebooting the unit will clear this error presuming the faulty AC mains condition no longer exists.
ERROR 05	AC Line voltage has momentarily exceeded the high threshold the power supply can tolerate. Maximum line voltage specs for 120V and 240V units are 128V and 254V respectively. Simply rebooting the unit will clear this error presuming the faulty AC mains condition no longer exists.
ERROR 09	This message occurs if the microprocessor doesn't hear from the main board running the main operating system. This can happen if the firmware on the built-in flash card becomes corrupted, if the BDP is mistakenly trying to boot from an attached drive, or in rare instances, if the serial cable connecting the main board to the power supply is loose.

If the error occurs after a power failure, failed firmware upgrade, or other major system disruption, contact Bryston for information on how to re-flash your BDP-1USB's internal CF card. If the error occurs upon the first boot sequence after connecting a new USB drive, try removing the drive and restarting again. If it boots with no problem, contact Bryston for instructions on resolving the problem with your drive.

If neither of these work, contact Bryston for instructions on how to verify the integrity of the internal serial cable.