



Clear Picture

PURE | AV™  
by Belkin



Clean Sound

Home Theater Power Protection with PureFilter™ Technology  
Power Console PF30

## User Manual



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# Introduction

Thank you for purchasing the PureAV Power Console PF30. The Power Console is designed to clean, protect, and efficiently distribute power to your valuable home theater system. The PureAV Power Console ensures that every movie you watch and every album you hear is as clean and clear as possible.

The Power Console is packed with innovative features to provide you with the best home theater experience. Ordinary household AC power that is delivered to your home is polluted with “noise” from many sources within your home, including digital components and household appliances. The Power Console’s advanced Phase 3 PureFilter Circuitry is optimized to remove electrical noise and provide clean and clear power to all of your valuable audio, video, and high-current equipment. The multiphase PureFilter Circuitry also provides true isolation between audio, video, and high-current components. This isolation prevents noise created by components that are already connected to the Power Console from contaminating other connected equipment. In addition, the Power Console contains Advanced Overvoltage Protection, which automatically disconnects power from your equipment when the input voltage reaches a dangerous level, and restores power automatically when the voltage returns to a safe level.

We also realize that the aesthetics of your system are very important. For this reason we enlisted some of the top industrial designers in the country to design the housing for the PureAV Power Console. The minimalist styling of the Power Console combines function with a simplistic yet elegant design and is a great complement to any system.

As you may know, your AC power source is not the only threat to the safety of your equipment. This is why the PureAV Power Console has two sets of coaxial connections to protect your coaxial-cable lines. The Power Console also includes telephone jacks to protect Pay-Per-View lines and broadband Ethernet jacks to protect data lines that stream digital content to your home theater system.

Providing the ultimate home theater experience is the driving force behind the PureAV brand, providing the clearest picture and cleanest sound from your components to you. Thank you again for purchasing the PureAV Power Console PF30.

**Clear Picture - Clean Sound. PureAV.**

# Safety Precautions

## **Warning – Grounding and Polarization**

This product must be plugged directly into a grounded AC power outlet (3-prong). Do not use a 3-to-2-prong adapter to defeat the grounding pin. Do not plug or “daisy-chain” this product into other electrical products such as surge protectors, power strips, or UPSes. Do not plug this product into an extension cord. Failure to plug this product directly into a grounded outlet may result in personal injury or damage to your equipment. Call a licensed electrician if you are unsure if your AC outlets are properly grounded.

## **Warning – Rooftop Antennas and Satellite Dishes**

If you use rooftop antennas, satellite dishes, or any other rooftop hardware that connects to your PureAV Power Console, make sure that all the wires leading from these components are properly grounded. This will protect against voltage surges from lightning strikes or static charges.

## **Warning – Lightning Storm Protection**

Although your PureAV Power Console is built to withstand large power surges, we cannot guarantee that it will protect all of your equipment in the event of a large lightning storm. In the event of a lightning storm, it is best to unplug your Power Console from the wall. Once you have done this, there is no need to unplug any of the equipment that is connected to the Power Console.

## **Warning – Water and other Liquids: Shock Hazard**

Do not use this product with aquariums or other water-related products. Use indoors and in dry locations only. Do not operate the Power Console if any liquid is spilled on or in the unit. Failure to follow these guidelines could result in serious bodily injury or death.

## **Warning – Cleaning**

Always unplug the Power Console before cleaning. It is only necessary to clean the Power Console with a clean, dry cloth or duster. Do not use any cleaning solutions, sprays, or water.

## **Warning – No User-Serviceable Parts Inside**

If for any reason your Power Console is malfunctioning, do not attempt to repair or dismantle the unit in any way. Unplug the unit and consult this User Manual for warranty and service contact information.

## **Warning – Power Cord Safety**

Do not route the Power Console’s AC power cord near heat sources. This could damage the power cord and cause it to malfunction, creating a shock hazard.

Do not route the Power Console’s AC power cord in heavy foot-traffic areas where it could create a trip hazard (hallways, doorways, across room).

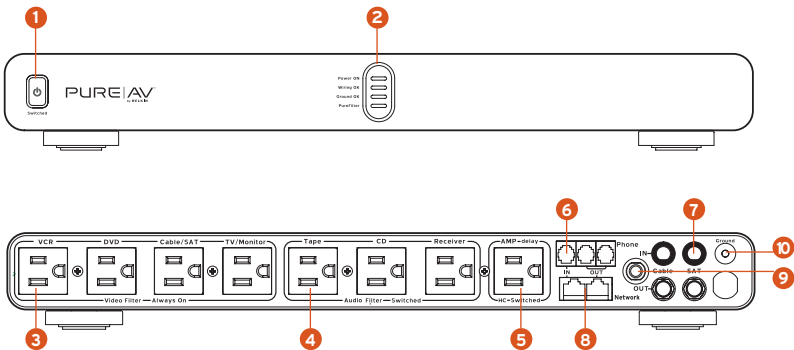
If the power cord is frayed, ripped, cut, or damaged in any way, please discontinue use immediately and refer to the warranty section of this Manual for instructions.

# Package Contents

- User Manual
- PureAV Power Console PF30
- RJ45 Ethernet Patch Cable - For broadband connectivity
- RJ11 Phone Cable
- PureAV Coaxial Video Cable
- One sheet of PureAV cable labels
- One pair of rack-mount brackets and bag of assembly screws
- Warranty registration card

# Power Console Features

- Switched button** - turns the power on and off to the Power Console's "switched" outlets
- Central LED Display** - monitors the Power Console's vital functions
- Video Filter** - ensures optimum reduction of line noise and interference to your video components
- Audio Filter** - ensures optimum reduction of line noise and interference to your audio components
- HiCurrent™ Filter** - delivers high current to power-hungry amplifiers and receivers; optimized to filter out line noise to these components
- Pay-Per-View/Phone Line Input/Output** - protects Pay-Per-View, phone, or DSL lines from dangerous power surges that can damage your equipment; built-in splitter turns one line into two
- Coaxial-Cable Line Input/Output** - protects your system from dangerous electrical disturbances that can travel down your coaxial-cable lines
- Broadband Ethernet Input/Output** - protects broadband Ethernet lines used for digital media receivers, gaming or broadband Internet access from dangerous power surges
- 15-Amp Circuit Breaker** - offers safety of resettable circuit breaker
- Ground** - provides a grounding point for ungrounded components



# Hookup & Installation

## Step 1 (optional)

### Mounting your Power Console

The PureAV Power Console can be mounted to a standard AV equipment rack or inside a cabinet equipped with an equipment rack.

- A. Remove the brackets and mounting screws from the box.
- B. Make sure that the Power Console is unplugged.
- C. Align the bracket with the front of the Power Console for flush installation in the rack.
- D. Attach the bracket to the side of the Power Console with the screws provided (Fig. 1). You must use a minimum of four screws to mount each bracket.
- E. Repeat steps C and D for installation of the bracket to the other side of the Power Console.
- F. Mount the Power Console to the equipment rack. Screws for mounting the Power Console to the equipment rack are not provided as they are made specifically for the particular equipment rack that you own. Contact the manufacturer of the rack if you do not have the correct mounting screws.

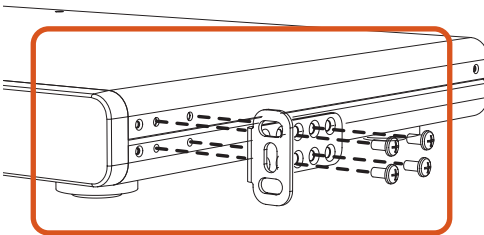


Figure 1

# Hookup and Installation

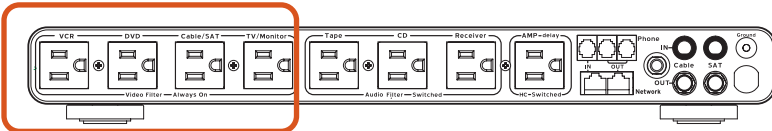
## Step 2

### Connect Video Components to the Video Filter

The PureAV Power Console Model PF30 contains an isolated Video Filter that is optimized to clean and condition the power to all of your video components. The video filter also isolates your video components from connected audio and high-current audio components. The Video Filter outlets are "Always ON" when the Power Console is plugged into a live AC outlet.

- A. Attach PureAV power cord labels to each component's power cord before you plug the cord into the corresponding outlet on the Power Console.
- B. **VCR** - Connect your VCR power cord to the outlet labeled "VCR".
- C. **DVD** - Connect your DVD power cord to the outlet labeled "DVD".
- D. **Cable/Satellite** - Connect your cable or satellite receiver power cord to the outlet labeled "Cable/SAT".
- E. **TV** - Connect your TV or monitor power cord to the outlet labeled "TV/Monitor".

**Note:** You can connect any type of video component into any of the Video Filter outlets. You are not limited to the components listed above.





# Hookup and Installation

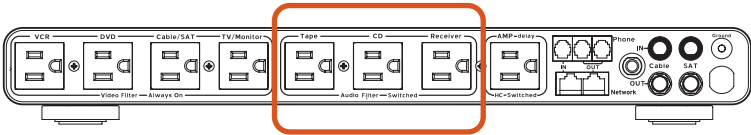
## Step 3

### Connect Audio Components to the Audio Filter

The PureAV Power Console Model PF30 contains an isolated Audio Filter that is optimized to clean and condition the power to all of your audio components. The audio filter also isolates your audio components from connected video and high-current audio components. The Audio Filter outlets are “Switched” and are controlled by the “Switched” button on the front of the Power Console.

- A. Attach PureAV power cord labels to each component’s power cord before you plug the cord into the corresponding outlet on the Power Console.
- B. **Tape** - Connect your tape player power cord to the outlet labeled “Tape”.
- C. **CD** - Connect your CD player power cord to the outlet labeled “CD”.
- D. **Receiver (Preamp)** - Connect your receiver or preamp power cord to the outlet labeled “Receiver”.

**Note:** You can connect any type of audio component into the Audio Filter outlets. You are not limited to the components listed above.



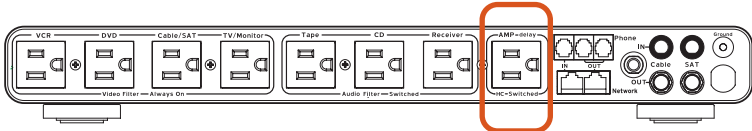
# Hookup and Installation

## Step 4 Connect High-Current Audio Filter (8 second delay)

This outlet is specifically designed to filter out AC line noise while delivering maximum current to power-hungry amplifiers and other high-current audio components. The High-Current outlet is also equipped with an 8 second delay. This allows your high-current amplifier to turn on last and turn off first, avoiding that annoying “thump” from getting to your speakers and potentially damaging them. The High-Current outlet is “Switched” and is controlled by the “Switched” button on the front of the Power Console.

- A. Attach PureAV power cord labels to each component’s power cord before you plug the cord into the corresponding outlet on the Power Console.
- B. **AMP** - Connect your main amplifier power cord to the outlet labeled “AMP-delay”.

**Note:** You can connect any type of high-current audio component into the High-Current outlet. You are not limited to the components listed above.



# Hookup and Installation

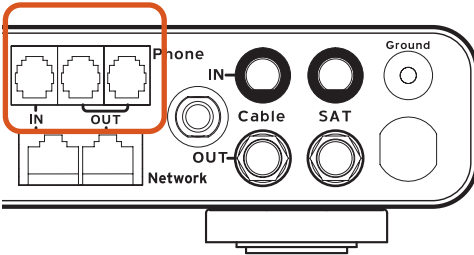
## Step 5

### Connect your Pay-Per-View/Phone Line

Your PureAV Power Console comes equipped with Pay-Per-View/phone-line protection with a built-in splitter. These are standard RJ11 phone jacks and are labeled "Phone".

- A. Connect one end of your telephone cable to the wall outlet to which you normally connect your phone line. Connect the other end of your telephone cable to the Power Console Phone jack labeled "IN".
- B. Connect one end of the PureAV phone cable (included) to the Power Console Phone jack labeled "OUT". Connect the other end of this cable to the Pay-Per-View phone jack on your DSS receiver.
- C. To connect a telephone - Connect one end of another phone cable to the other Power Console Phone jack labeled "OUT". Connect the other end of this cable to the telephone you want to use.

**Note:** We have included labels for the Phone IN and Phone OUT lines if needed for better organization.



# Hookup and Installation

## Step 6 Connect your Coaxial-Cable/DSS Lines

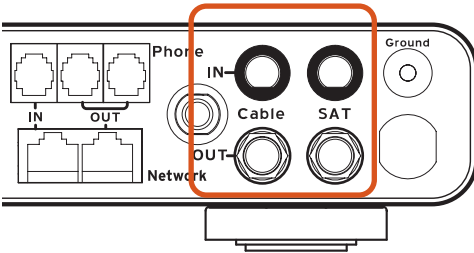
Your PureAV Power Console comes with two pairs of coaxial-cable connections to protect your system from dangerous electrical disturbances that can travel down your coaxial-cables lines. You will need additional coaxial cables to connect the Power Console to your home theater components.

**A. Cable TV** - Connect the incoming cable television coaxial-cable line to the connector labeled "Cable IN". Connect one end of a second coaxial cable to the connector labeled "Cable OUT". Connect the other end of this cable to your cable TV tuner.

**B. Satellite (DSS) TV** - Connect the incoming satellite television coaxial-cable line to the connector labeled "SAT IN". Connect one end of a second coaxial cable to the connector labeled "SAT OUT". Connect the other end of this cable to your satellite TV tuner.

**Note:** We have included labels for the Coax IN and Coax OUT lines if needed for better organization.

**IMPORTANT WARNING** - To sufficiently safeguard all of your equipment from damage resulting from a power surge, all of your incoming coaxial-cable lines should be properly grounded. Contact a licensed electrician to verify that all of your cable lines are properly grounded to a cold-water pipe or ground rod.



# Hookup and Installation

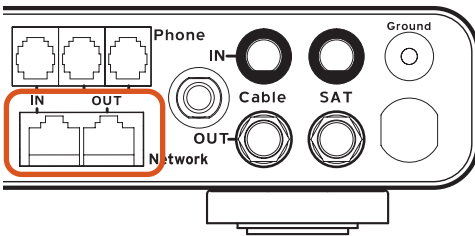
## Step 7

### Connect your Broadband Ethernet Line

Your PureAV Power Console comes equipped with broadband Ethernet line protection. These are standard RJ45 Ethernet jacks and they are labeled "Network".

- A. Connect one end of an RJ45 network patch cable to a network jack (either directly to a router or wired network wall jack). Connect the other end of the network patch cable to the Network jack labeled "IN".
- A. Connect one end of the broadband Ethernet cable (included) to the Network jack labeled "OUT". Connect the other end of this cable to the networked device (digital media receiver, gaming console, etc.)

**Note:** We have included labels for the Network IN and Network OUT lines if needed for better organization.

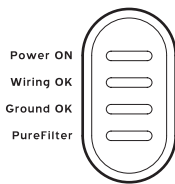


# Operation

## Central LED Control Panel

The PureAV Power Console PF30 is equipped with an LED display that monitors the vital functions of the Power Console..

- A. Power ON indicator light** - indicates that the “Switched” outlets are receiving power.
- B. Wiring OK indicator light** - indicates whether the AC outlet to which the Power Console is connected is wired properly, or cross-wired. If the Wiring OK indicator does not light, then the hot and neutral wires are reversed. See page 14 of the Troubleshooting section for more information.
- C. Ground OK indicator light** - indicates if the Power Console is connected to a properly grounded AC outlet. If the Ground OK indicator does not light, this indicates that the AC wall outlet is not properly grounded. See page 14 of the Troubleshooting section for more information.
- D. PureFilter Indicator** - indicates that the multiphase PureFilter Circuitry is functioning properly.



## Troubleshooting

### Power Console is not providing power

- Check to ensure that the Power Console is plugged into a properly grounded AC wall outlet. Some outlets require a wall switch to be turned on in order to deliver power to the outlet.
- Too many devices may be plugged into the Power Console, which are overloading the unit and tripping the overload circuit breaker. The Power Console is not designed to handle current loads larger than 15 Amps or 1800 watts. Try unplugging some devices and resetting the circuit breaker located on the end of the Power Console.

To reset the circuit breaker: Wait at least 10 minutes after the circuit breaker was tripped before attempting to reset the breaker. Press in the button located next to the power cord on the end of the unit to reset. Power should be restored to the outlets on the Power Console.

# Troubleshooting

- Your components may be plugged into a “Switched” outlet and the outlet is not Switched On. Press the “Switched” button on the front of the Power Console to activate the switched outlets. You should now have power to all of the switched outlets.
- Your components may not be turned on. Power may be flowing from the Power Console, but if the power switch on your component is not turned on then your component cannot receive power. Turn on the power switch on your component.
- The Power Console is designed to stop delivering power to all outlets when the surge-protection circuitry is not functioning properly or is expired. Call Belkin Customer Service for assistance.
- The Power Console may be defective. Call Belkin Customer Service for assistance.

## **Ground OK indicator light is not lit**

- Check to make sure that the Power Console is plugged into a grounded AC wall outlet. (3-prong AC outlets only. Do not use 2-3-prong adapters.)
- If the Ground OK indicator light is still not lit, you have a ground-wiring problem. Connecting the PureAV Power Console to an improperly grounded outlet is not safe and will void all Belkin Corporation warranties. Unplug the Power Console and consult an electrician to properly ground the outlet. If the outlet is properly grounded and the Ground OK indicator light is still not lit, the Power Console may be malfunctioning. Please call Belkin Customer Service for assistance.

## **Wiring OK indicator light is not lit**

- Check to make sure that the Power Console is plugged into a grounded AC wall outlet. (3-prong AC outlets only. Do not use 2-3-prong adapters.)
- If this Wiring OK indicator light is still not lit, this indicates that the hot and neutral (L-N) wires are reversed. Unplug the Power Console and consult an electrician.

**For all other technical questions or troubleshooting issues, please contact Belkin Customer Service at 800-223-5546.**

# Glossary of Power Terms

**Alternating Current (AC):** The current that is commonly flowing through the electrical outlets in your home. It is an electrical current in the form of a sine wave that oscillates up and down continuously.

**Amp:** An abbreviation for Ampere. This is a unit of electrical current.

**Direct Current (DC):** An electrical current flowing in one direction only. DC current does not have a wave form.

**Electromagnetic Interference (EMI):** Electrical interference generated by appliances and many other electrical components that cause degradation of sound and picture quality in audio and video equipment.

**Ground:** A conducting object, such as a wire, that is connected to a position of zero-voltage potential. Common connecting points are ground rods or cold-water pipes that are connected to the Earth.

**Joule Rating:** A measure of electrical energy. The higher the joule rating, the more electrical surges a device can absorb before failing.

**Maximum Spike Current:** The maximum current (in Amps) that can be absorbed before failing. The higher the maximum spike current, the more current a device can absorb without failing.

**Radio Frequency Interference (RFI):** Electromagnetic radiation, which is emitted by electrical circuits carrying rapidly changing signals as a by-product of their normal operation, and which causes interference or noise to be induced in other circuits.

**Spike:** A very fast transient variation in voltage or current. Many small transients, over time, cause components to wear and fail.

**Surge:** An increase in voltage or current significantly above the designated level in a flow of electricity



# Belkin Connected Equipment Warranty

Belkin Corporation warrants to the original purchaser of any PureAV Power Console for the life of the product, that the PureAV Power Console shall be free of defects in design, assembly, material, or workmanship, and will repair or replace, at its option, any defective product free of charge.

Belkin Corporation will repair or replace, at its option, any equipment which is damaged by a transient voltage surge/spike or lightning strike, (an "Occurrence"), while properly connected through a PureAV Power Console to a properly wired AC power line with protective ground. If you are using an AC PureAV Power Console that has phone, network, or coaxial protection, the telephone line, network line, and coaxial-cable line must be properly connected and installed, as determined by Belkin at its sole discretion.

This Connected Equipment Warranty is a Limited Warranty, subject to the limitations and exclusions set forth herein.

Belkin Corporation will spend, to repair or replace the damaged connected equipment, at Belkin's option, an amount equal to the fair market value of the damaged equipment or the original purchase price of the equipment, whichever is less, up to the maximum amount set forth below:

Models AP21100-12, AP21300-12, AP41300-12 up to a maximum of \$500,000.00  
Model AP20800-10 up to a maximum of \$350,000.00

The fair market value of the equipment shall be the current value of the equipment specified in the most recent edition of the Orion Blue Book by Orion Research Corporation, Roger Rohrs Publisher.

Belkin Corporation reserves the right to review the damaged PureAV Power Console, the damaged equipment, and the site where the damage occurred. All costs of shipping the PureAV Power Console and the damaged equipment to Belkin Corporation for inspection shall be borne solely by the purchaser. Belkin reserves the right to negotiate the cost of repairs. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin Corporation, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin Corporation reserves the right to be subrogated under any existing insurance policies the claimant may have.

All above warranties are null and void if: the PureAV Power Console in use during the Occurrence is not provided to Belkin Corporation for inspection upon Belkin's request at the sole expense of the purchaser, Belkin

# Belkin Connected Equipment Warranty

Corporation determines that the PureAV Power Console has been improperly installed, altered in any way or tampered with, Belkin Corporation determines that the damage did not result from the Occurrence or that no Occurrence in fact took place, the repair or replacement of the damaged equipment is covered under a manufacturer's warranty, or Belkin Corporation determines that the connected equipment was not used under normal operating conditions or in accordance with any labels or instructions. All PureAV Power Consoles must be plugged directly into the power source and must not be "daisy-chained" together in serial fashion with other power strips, UPSes, other surge protectors or extension cords. A 3-2-prong adapter may not be used. Any such installation voids the warranty. The Belkin Connected Equipment Warranty only protects against damage to properly connected equipment where Belkin Corporation has determined, in its sole discretion, that the damage resulted from an Occurrence, and does not protect against acts of God (other than lightning) such as flood, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration. \*Please note: This product is not for use with aquariums and all other water-related products. Use only indoors and in dry locations.

This warranty contains the sole warranty of Belkin Corporation, there are no other warranties, expressed or, except as required by law, implied, including the implied warranty or condition of quality, merchantability or fitness for a particular purpose, and such implied warranties, if any, are limited in duration to the term of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

In no event shall Belkin Corporation be liable for incidental, special, direct, indirect, consequential or multiple damages such as, but not limited to, lost business or profits arising out of the sale or use of any PureAV Power Console, even if advised of the possibility of such damages. This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damage, so the above limitations may not apply to you.

This warranty is valid only for the original purchaser of the product. All damage claims against the product must be made within 15 days from the date of the Occurrence and must be accompanied by a receipt for the damaged equipment or the warranty is void. Warranty is valid in USA, Canada, Puerto Rico, and Bermuda. To file a claim against the Belkin Connected Equipment Warranty, you must take the following steps: Contact Belkin online at [www.belkin.com](http://www.belkin.com) and print our claim form or write to us at:

# Belkin Connected Equipment Warranty

**Belkin Corporation, 501 W. Walnut St., Compton CA 90220**

Attn: Technical Support, or call (310) 898-1100, extension 2263, within 15 days of the Occurrence. Be prepared to provide the following information:

- a. The part number of the PureAV Power Console.
- b. The equipment that was connected to the PureAV Power Console at the time of the Occurrence.
- c. The equipment that was damaged during the Occurrence and the extent of the damage.
- d. The date of the Occurrence.
- e. Where you purchased the PureAV Power Console.
- f. When you purchased the PureAV Power Console.
- g. Copy of original receipt.
- h. Your Belkin Customer Service Representative will then instruct you on how to forward your equipment, receipt, PureAV Power Console in use during the "Occurrence" and how to proceed with your claim.

Please conveniently register your PureAV Power Console online on our website at [www.belkin.com](http://www.belkin.com).

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