

A Brazen Plug For Other AudioControl Products

AudioControl started out making graphic equalizers in 1977. Our heritage and design experience grew from a background in professional audio, so we were never quite satisfied with what was available for the consumer audio market. Since that time, we have continued to expand our product offerings to become a key part of great home audio systems. We supply the audio components that can make a more substantial improvement in the sound of your system than almost any other addition or upgrade. More bass, better sound, less harshness and the ability to hear music the way you want it.



BLR-10 and BLD-10 Balanced Audio Drivers. Sends over CAT-5 extends high quality audio up to 1000’.

We make our equalizers easy to use by incorporating features such as pairing channel controls together. We help you make the system sound as good as possible with high quality subsonic filters and, in selected models, built-in test analyzers that let you make accurate adjustments to instantly compensate for main system speaker and room deficiencies. In fact, AudioControl was the world’s first manufacturer of a SEVEN CHANNEL equalizer for home theater surround sound use.

AudioControl also provides a full compliment of components for your home theater needs. The Maestro 7.1 is a THX Ultra 2 certified home theater surround processor with exceptional audio and video performance. The Diva 24 bit digital room correction system provides 8 channels of acoustical control to get the most

out of your home theater. The Savoy, Pantages and Avalon power amplifiers round out this theater system. Their audiophile sound quality, cool running Class H design and exclusive *LightDrive* protection systems say these amplifiers mean serious business. Together the AudioControl home theater system provides ultimate performance for your ultimate home theater.

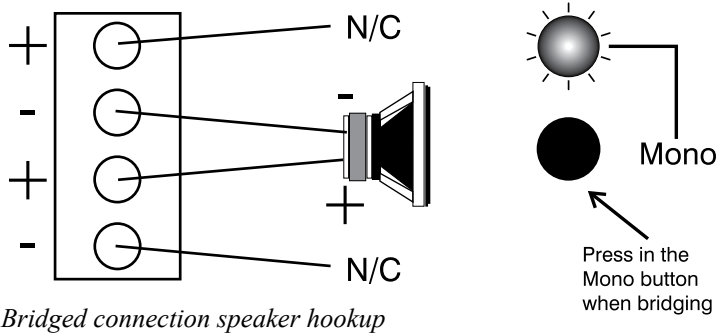


Okay, enough commercials.

Once again, we thank you for choosing AudioControl components in your system and hope you enjoy a lifetime of performance and reliability.

Appendix A BRIDGING THE ARCHITECT

To increase the output power of the Architect, you can join (bridge) two channels of the Architect into a single channel of 230 watts. Accomplishing this is a simple matter. Just press the Mono button to send the same audio signal to both channels of the zone and then connect the speaker terminals as shown in the diagram below.



Bridged connection speaker hookup



Caution - Do not use a speaker rated at less than 8 ohms when bridging. In a bridged system, each channel of the bridged pair "sees" one half of the speaker load.

This means that a bridged amp driving an 8 ohm speaker is actually operating into a 4 ohm load.

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Appendix B USING WITH ETHERNET-BASED AUTOMATION SYSTEMS

The Ethernet LAN connection on the Model 1161 enables remote control of the amplifiers power and channel muting. While the internal web server of the Model 1161 provides an HTML web page based interface, this is not the best means of controlling the unit from another computer system. The Architect Model 1161 utilizes a Telnet TCP/IP protocol for system programmers. The Telnet protocol uses simple ASCII text commands to control and monitor the Architect Model 1161 amplifier.

To log into the Architect Model 1161 via Telnet, you need a Telnet client program in your system. If you are using Windows, you have both Hyperterminal and Telnet. The factory default static IP address of the Model 1161 is *192.168.0.1* and telnet is active on port 23. The default user login ID and password are:

User ID: architect (note: all lower case)
Password: 1100

An example of a typical telnet login session is:

```
/Telnet> login  
/Telnet> UserID?: architect  
/Telnet> Password?: 1100  
/Telnet> User authenticated!  
/Telnet>
```

The serial ASCII control protocol over telnet allows simple integration with other automation computer systems. The basic command format is:

command<cr> <lf>

Where command is the ASCII text string of the command and <cr> is an ASCII carriage return and <lf> is a line feed. These commands are case sensitive and have a one second timeout if no valid command or delimiter is sent.

The commands are broken into two groups: **Controls** and **Inquiries**. The **Controls** issue instructions to the Model 1161 for power control and channel muting; the **Inquiries** return the status of amplifier channels, AC line voltage, the amplifier temperature, and the failure data log.

Note: If during a telnet session there is no communication between the host and the client for 30 seconds, the Architect will terminate its session.

Control Commands

P0	(zero not 'O') Main Power Off	B0	Defeats signal sense
P1	Main Power On	B1	Signal sense Active
M1	Mute channel 1-2	H0	No header and footer to inquiries
M2	Mute channel 3-4	H1	Included header and footer
M3	Mute channel 5-6	SIP	Set IP address for notification messages. Address followed by colon and port number
M4	Mute channel 7-8	AP0	Automatic protect notification off
M5	Mute channel 9-10	AP1	Automatic protect notification on
M6	Mute channel 11-12	AC0	Automatic change notification off
M7	Mute channel 13-14	AC1	Automatic change notification on
M8	Mute channel 15-16	CL	Clear all logs
MA	Mute all channels		
U1	Unmute channel 1-2		
U2	Unmute channel 3-4		
U3	Unmute channel 5-6		
U4	Unmute channel 7-8		
U5	Unmute channel 9-10		
U6	Unmute channel 11-12		
U7	Unmute channel 13-14		
U8	Unmute channel 15-16		
UA	Unmute all channels		

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Inquiry Commands

M?	Binary string showing all zones mute status	D?	Model ID three digit number
	0 = Mute 1 = Active (unmuted) (i.e. '001000' – zone 3 is unmuted)	B?	Signal sense 0=Defeated, 1=Active
S?	Protection status (zone 1-8 and Amp) 1=Normal/Active 0=Mute/Standby 2=Protect 3=Short circuit	H?	Header/Footer Status 0=None, 1=Include <i>See next page for header formats</i>
T?	Temperature (zone 1-8) 0=Cool, 1=Normal 2=Warm 3=Thermal protection 4=Channel muted	IP?	IP address and port set for notifications. Active telnet session not required for notifications.
P?	Main power status – 0=off, 1=on	AP?	Automatic protect notification 0=off, 1=on
V?	AC Line voltage – 0 = Low (less than 105 VAC) 1 = Normal 2 = High (more than 125 VAC)	AC?	Automatic change notification 0=off, 1=on
L?	Protection data log (comma delimited text) <i>See next page for log formats</i>	PB?	Physical bypass 1= bypass switch engaged 0=not engaged

Header Format

The response to inquiry commands may include both a header and footer for more precise identification if desired. The format of that header is as follows:

IFBXXXXXXXXAC

where I = the inquiry command, FB stands for feedback, X is the zone status, and AC is the footer identifying the response as from an AudioControl product.

For example, the response

MFB00100000AC

is the response to a zone mute inquiry (M?) and shows all zones muted ("0") except zone 3 ("1" being active or unmuted).

Logging Format

In response to a logging inquiry (L?), the Architect will respond with the most recent twenty events. The format of the logged response is:

EECCYYYYMMDDHHMMSS

where E= event code, C=zone, Y= year, M= month, D= day, H= hour, M= minute and S=second. Event code include:

00= DC offset/global protection

01= short circuit

02= over temperate

For the zone code:

00 channel pair 1-2

01 channel pair 3-4

02 channel pair 5-6

03 channel pair 7-8

04 channel pair 9-10

05 channel pair 11-12

06 channel pair 13-14

07 channel pair 15-16

99 all zones, i.e. global protection

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Warranty

Legalese Section

This is the only warranty given by AudioControl. This warranty gives you specific legal rights, and you may also have rights that vary from state to state. Promises of how well The Architect™ will work are not implied by this warranty. Other than what we've said we'll do in this warranty, we have no obligation, express or implied. We make no warranty of merchantability or fitness for any particular purpose. Also neither we nor anyone else who has been involved in the development or manufacture of the unit will have any liability of any incidental, consequential, special or punitive damages, including but not limited to any lost profits or damage to other parts of your system by hooking up to the unit (whether the claim is one for breach of warranty, negligence of other tort, or any other kind of claim). Some states do not allow limitations of consequential damages.

Failure to send in a properly completed warranty card negates any service claims.

The warranty included with the unit shall supersede this plain-text version if there is any inconsistency between the two.

The Warranty

People are scared of warranties. Lots of fine print. Months of waiting around. Well, fear no more. This warranty is designed to make you rave about AudioControl. It's a warranty that looks out for you and your client, plus helps you resist the temptation to have your friend, who's "good with electronics", try to repair your AudioControl product. So go ahead, read this warranty, then send in the warranty card and comments.

"Conditional" doesn't mean anything ominous. The Federal Trade Commission tells all manufacturers to use the term to indicate that certain conditions have to be met before they'll honor the warranty. If you meet all of these conditions, we will warrant all materials and workmanship on The Architect™ for five (5) years from the date you bought it, and we will fix or replace it, at our option, during that time.

Here are the conditional conditions:

1. You have to fill out the warranty card and send it to us within 15 days after installing the The Architect™.
2. You must keep your sales receipt for proof of purchase showing when and from whom the unit was purchased. We're not the only ones who require this, so it's a good habit to get into with any major purchase.
3. The Architect™ must have originally been purchased from an authorized AudioControl dealer. You do not have to be the original owner, but you do need a copy of the original sales slip.
4. You cannot let anybody who isn't: (A) the AudioControl factory; or (B) somebody authorized in writing by AudioControl to service the The Architect™. If anyone other than (A), or (B) messes with The Architect™, that voids your warranty.
5. The warranty is also void if the serial number is altered or removed, or if The Architect™ has been used improperly. Now that sounds like a big loophole, but here is all we mean by it:

Unwarranted abuse is: (A) physical damage (don't use The Architect_{tm} to level your projection TV); (B) improper connections (120 volts into the RCA jacks can fry the poor thing); (C) sadistic things. This is the best product we know how to build, but if you strap it to the front bumper of your Range Rover, something might break.

Assuming you conform to 1 through 5, and it really isn't all that hard to do, we get the option of fixing your old unit or replacing it with a new one.



What to do if you need service

First, contact AudioControl, either by e-mail, phone or FAX. We'll verify if there is anything wrong that you can fix yourself, or that it needs to be sent back to our factory for repair. Please include the following items with the returning unit:

- 1) A copy of your proof of purchase (that sales receipt we've been harping about). No originals please. We cannot guarantee returning them to you.
- 2) A brief explanation of the trouble you are having with The Architect[™]. (You'd be surprised how many people forget this.)
- 3) A return street address. (No PO Boxes, please)
- 4) A daytime phone number in case our technician has a question about the problem you are having.

You're responsible for the freight charges to us, but we'll pay the return freight back as long as the unit is under warranty. We match whatever shipping method you use to send it to us, so if you return the unit overnight freight, we send it back overnight. We recommend United Parcel Service (UPS) for most shipments.

Repair service is available at:

AudioControl[®]

Attn: Service Department
22410 70th Avenue West
Mountlake Terrace, WA 98043 USA
Phone 425/775-8461 • FAX 425/778-3166
email: sound.better@audiocontrol.com

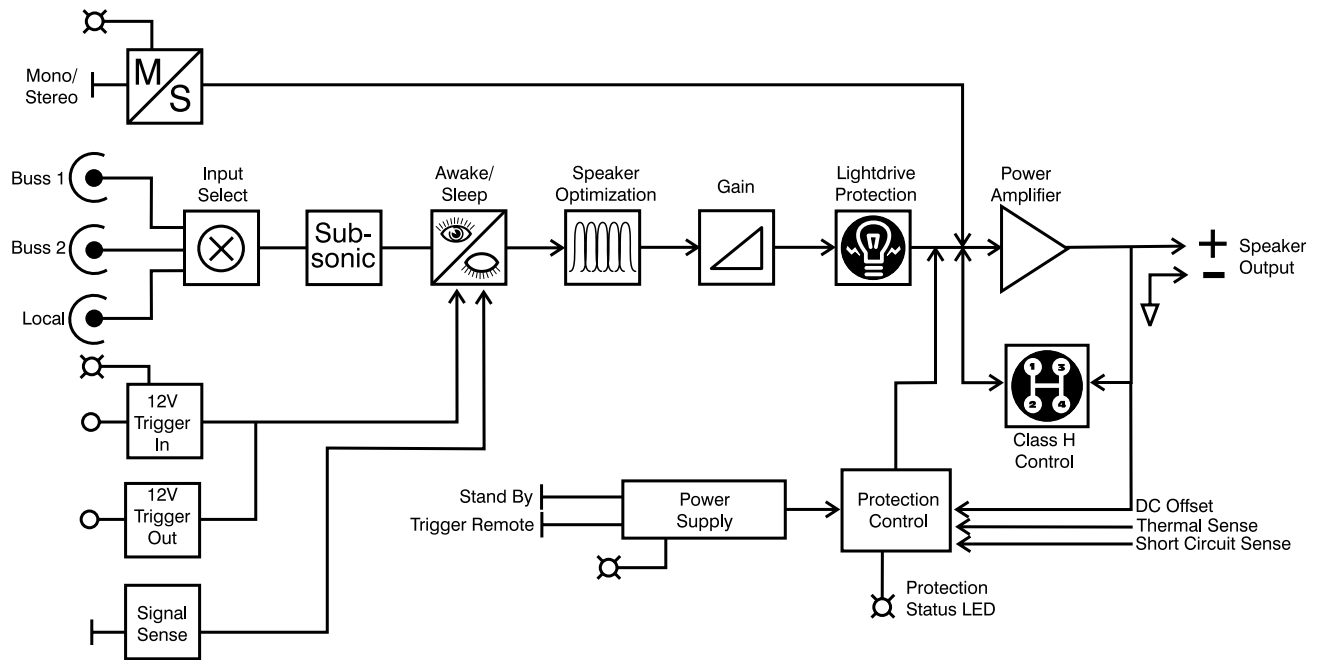


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Block Diagram



1100 Series Specifications

Power	All Channels Driven	Single Zone
Stereo Mode		2 channels
8 ohm 20 Hz-20kHz 0.09% THD	60 Watts	65 Watts
4 ohm 20 Hz-20kHz 0.09%THD.	80 Watts	130 Watts
2 ohm 20 Hz-20kHz 0.09% THD	not recommended	150 Watts
Bridged Mono		
8 ohm 20 Hz-20kHz 0.08% THD	230 Watts	290 Watts
Minimum Speaker Load	4 ohms (2 ohms limited zones)	
Damping Factor	Greater than 200	
Total Harmonic Distortion	0.15% (Full Power, 20-20k)	
Signal to Noise	>100dB, A-wtd, Ref, Full Output	
Input Sensitivity	Variable 0-1 Vrms	
Input Impedance	20 kilo ohms	
Crosstalk	Greater than 80dB @ 1kHz	
Equalizer Center Frequencies	75, 250, 700, 2.5k, 12KHz	
PFM Highpass Filter	38Hz	
Remote Power Trigger	+12 VDC or Dry Contact Closure	
AC Main Fuse Rating	10 amp Slo-Blo	
AC Main Operational Voltage	95-130v	
Protection	clipping, short circuit, thermal, ultrasonic, DC offset Stable into reactive or mismatched loads	
Weight	48 pounds (22 kg)	
Dimensions	17" W x 16" D x 5.25" H	
Rack Mounting	3U high 19" Brackets	
Network Connection/Protocol	10BaseT Ethernet TCP/IP	
Communication Protocol	HTTP or Telnet	
Default Static IP Addressing	192.168.0.1	
In Rush Current	active limited, soft start	
Current Consumption (all channels driven)		
Idle	24 Watts	
1/8th Power (loud listening level)	240 Watts	
Full Power	1600 Watts	
BTU/Hour Heat Dissipation (all channel driven)		
Idle	85	
1/8 Power (loud listening level)	330	
Full Power (worst case)	1460	
Country of Origin	USA	
US Patent Number	5,708,577	

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This manual was written, designed, printed, folded and stuffed into the box in the U.S.A. Probably on a really grey and rainy day considering where we live.

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For Those Who Consider Perfection Possible[®]

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