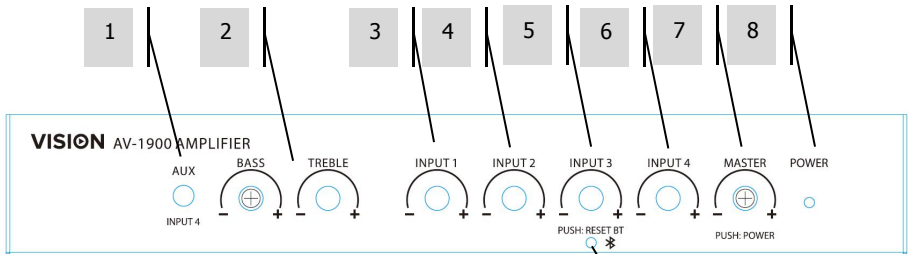


# AV-1900

[vav.link/av-1900/](http://vav.link/av-1900/)



## FRONT PANEL

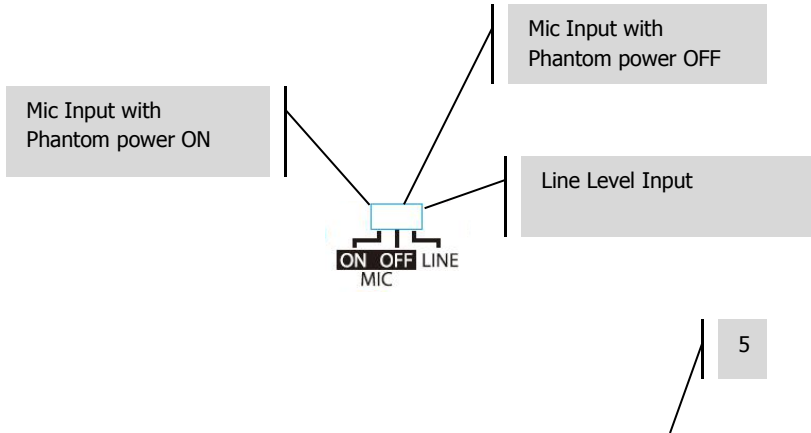


1. Input 4 Auxiliary input minijack. Plugging in here will disconnect
2. Tone control
3. Input 1 - Mic or Line
4. Input 2 - Mic or Line
5. Input 3 - Mic or Bluetooth [Push: hold for 3 seconds to unpair BT device]
6. Input 4 - Mic or Line
7. Master volume [Push: Power on/Off]
8. Power indicator

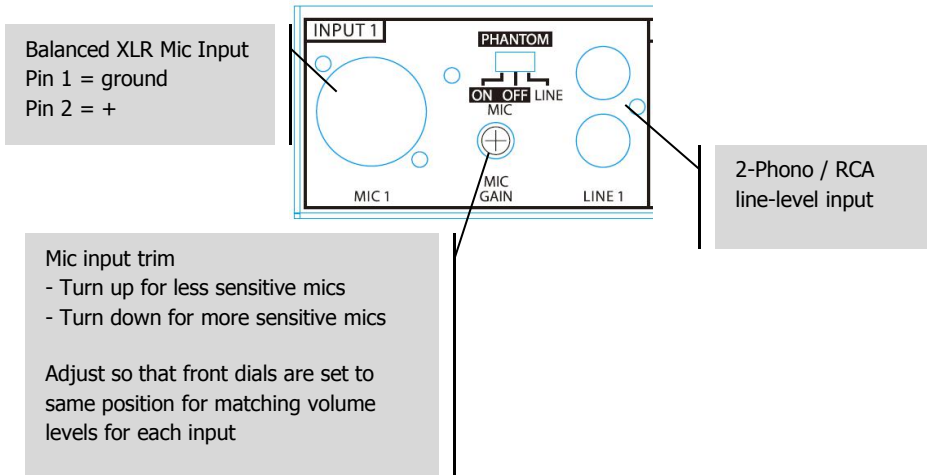
Bluetooth Indicator  
Flashing: pairing mode  
On: paired

[Type here]

## INPUT SELECTOR

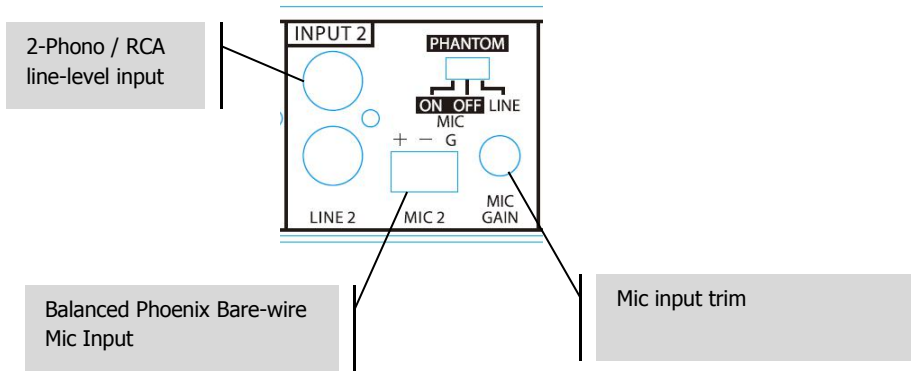


## INPUT 1

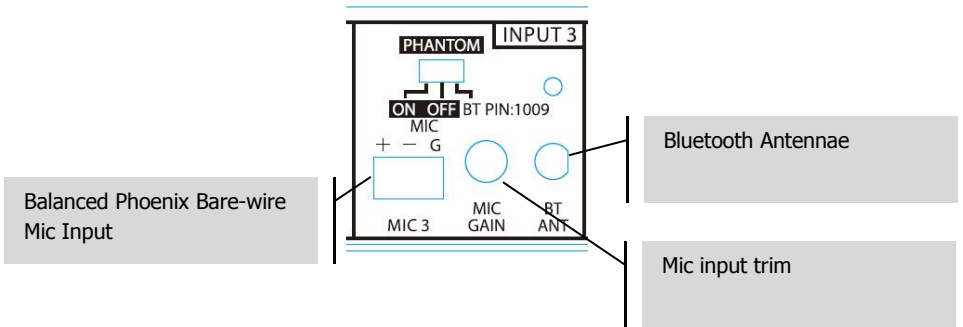


[Type here]

## INPUT 2



## INPUT 3

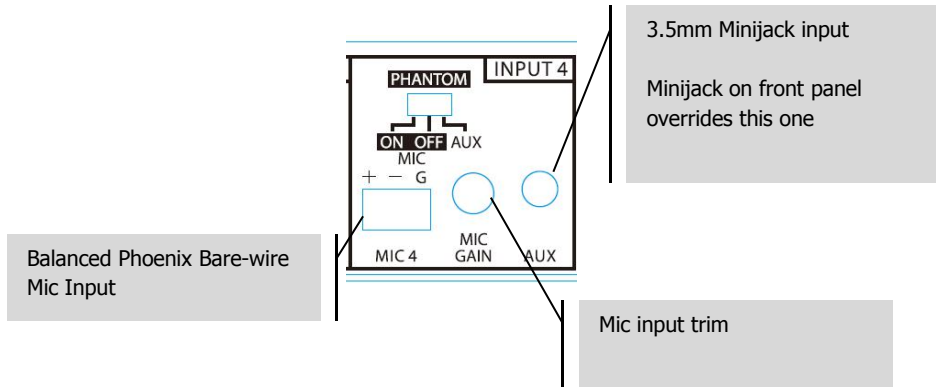


### BT Notes

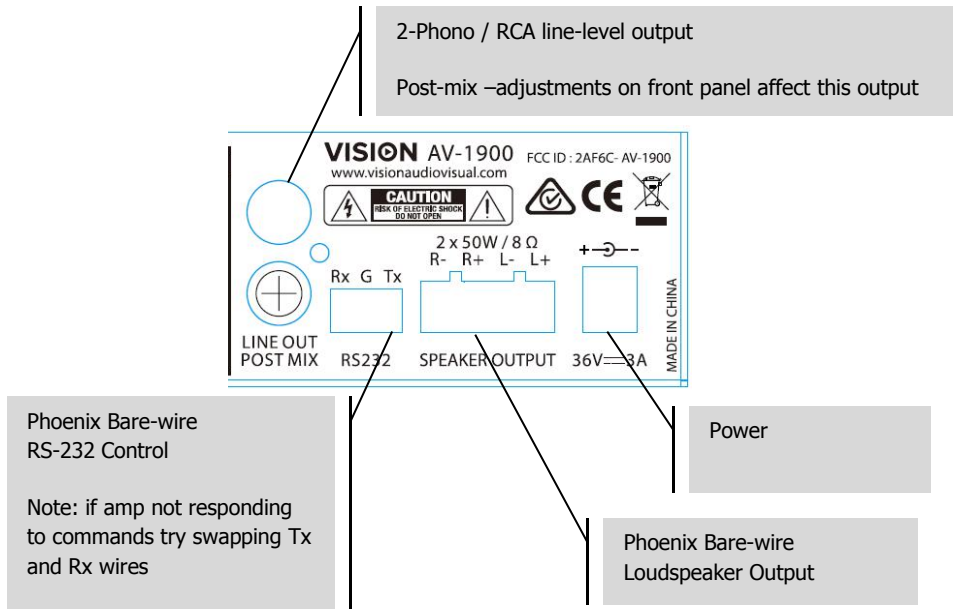
- To disable set switch to left or centre positions
- AV-1900 has one BT memory slot. It will pair with the most recently paired device without requiring PIN.
- Resetting BT by holding down Input 3 dial will delete memory slot to allow new device to connect

[Type here]

## INPUT 4



## OUTPUTS



[Type here]

## RS-232 CODES

Baud rate: 9600K

Stop Bit: 1

Delivery interval >80ms

No check digit

Table 1: Command Codes

HEX Code	Function		Remarks	Return codes
97 45 45	ON	Turn on/ bring out of standby	Working	97 20 20 01
			INPUT1 Volume <b>XX=00-14</b>	97 31 31 XX
			INPUT2 Volume <b>XX=00-14</b>	97 32 32 XX
			INPUT3 Volume <b>XX=00-14</b>	97 33 33 XX
			INPUT4 Volume <b>XX=00-14</b>	97 34 34 XX
			Master Volume <b>XX=00-14</b>	97 23 23 XX
			Master Bass <b>XX=00-0E</b>	97 24 24 XX
		Master Treble <b>XX=00-0E</b>	97 25 25 XX	
97 46 46	OFF	Turn off	Standby	97 20 20 00
97 47 47	MUTE	Mute on/off	Mute Off = 0 / Mute = 1	97 21 21 0X
97 43 43	INPUT1+	INPUT1 volume +	INPUT1 Volume <b>XX=00-14</b>	97 31 31 XX
97 09 09	INPUT1-	INPUT1 volume -		
97 0D 0D	INPUT2+	INPUT2 volume +	INPUT2 Volume <b>XX=00-14</b>	97 32 32 XX
97 5E 5E	INPUT2-	INPUT2 volume -		
97 18 18	INPUT3+	INPUT3 volume +	INPUT3 Volume <b>XX=00-14</b>	97 33 33 XX
97 0C 0C	INPUT3-	INPUT3 volume -		
97 11 11	INPUT4+	INPUT4 volume +	INPUT4 Volume <b>XX=00-14</b>	97 34 34 XX
97 10 10	INPUT4-	INPUT4 volume -		
<b>97 1A 1A</b>		<b>BT Disconnect</b>	<b>/</b>	<b>97 26 26 00</b>
97 15 15	TREBLE+	Increase treble gain by +1DB	Treble Gain <b>XX=00-0E</b>	97 25 25 XX
97 07 07	TREBLE-	Decrease treble gain by -1DB		
97 19 19	BASS+	Increase bass gain by +1DB	Master Bass <b>XX=00-0E</b>	97 24 24 XX
97 16 16	BASS-	Decrease bass gain by-1DB		
97 5A 5A	RESET	Reset tone	Bass/Treble	97 24 24 07 97 25 25 07
97 40 40	VOL+	Volume +/- out of mute	Master Volume <b>XX=00-14</b>	97 23 23 XX
97 44 44	VOL-	Volume -/out of mute		

[Type here]

97 08 08	AUTOSTANDBY ON	AUTO STANDBY ON		97 28 28 01
97 1C 1C	AUTOSTANDBY OFF	AUTO STANDBY OFF		97 28 28 00

Table 2: Direct Address Volume Codes

HEX	Function	Remarks	Return codes
97 AX AX	X =0-F Set master volume to 0-15	xx =01-14	97 23 23 xx
97 BX BX	X =0-4 Set master volume to 16-20		
97 CX CX	X =0-E Set Bass volume to 0-14	xx =01 -0E	97 24 24 xx
97 DX DX	X =0-E Set Treble volume to 0-14	xx =01 -0E	97 25 25 xx
97 EX EX	X =0-F Set INPUT1volume to 0-15	xx =01-14	97 31 31 xx
97 FX FX	X =0-4 Set INPUT1volume to 16-20		
97 GX GX	X =0-F Set INPUT2volume to 0-15	xx =01-14	97 32 32 xx
97 HX HX	X =0-4 Set INPUT2volume to 16-20		
97 IX IX	X =0-F Set INPUT3volume to 0-15	xx =01-14	97 33 33 xx
97 JX JX	X =0-4 Set INPUT3volume to 16-20		
97 KX KX	X =0-F Set INPUT4volume to 0-15	xx =01-14	97 34 34 xx
97 LX LX	X =0-4 Set INPUT4volume to 16-20		

Table 3: Return Codes

- Response from Unit = 97 \*\* \*\* 0X/XX 0A
- All responses end in \x0A or LineFeed
- Sample commands and responses
  - o Power Query – Command -97 20 20
  - o Power Query – Response – STANDBY 97 20 20 01\x0A = On/No Faults
  - o Power Query – Response – STANDBY 97 20 20 00\x0A = Off/Standby

HEX Code	Name	Function	Remarks	Return codes
97 20 20	STANDBY	Speaker working Status	Speaker OFF/Standby Speaker ON/Working	97 20 20 00
				97 20 20 01
97 21 21	MUTE	Mute On/Off	Mute Off = 0 Mute = 1	97 21 21 00
				97 21 21 01
97 23 23	Master_GAIN_GET	Volume Gain	20 steps total XX=00-14 HEX code	97 23 23 XX
97 24 24	Master_B_GAIN_GET	Bass Gain	14 steps total, XX=00-0E HEX code	97 24 24 XX

[Type here]

97 25 25	Master_T_GAIN_GET	Treble Gain	14 steps total XX=00-0E HEX code	97 25 25 XX
97 26 26	BT_BIT	Bluetooth status	BT unpaired = 0	97 26 26 00
			BT paired , Pause= 1	97 26 26 01
			BT paired, Play = 2	97 26 26 02
97 27 27	BT Device	Bluetooth name	Length=0# Name=xxx HEX code	97 27 27 0#xxx
97 28 28	AUTO_STANDBY	Auto standby Status	Auto standby OFF = 0	97 28 28 00
			Auto standby ON = 1	97 28 28 01
97 31 31	INPUT1_GAIN_GET	INPUT1 Volume Gain	20 steps total XX=00-14 HEX code	97 31 31 XX
97 32 32	INPUT2_GAIN_GET	INPUT2 Volume Gain	20 steps total XX=00-14 HEX code	97 32 32 XX
97 33 33	INPUT3_GAIN_GET	INPUT3 Volume Gain	20 steps total XX=00-14 HEX code	97 33 33 XX
97 34 34	INPUT4_GAIN_GET	INPUT4 Volume Gain	20 steps total XX=00-14 HEX code	97 34 34 XX

NOTE: Auto-Standby activates after 30 minutes of mute or no operation. Any adjustment turns standby off.

[Type here]

## **FCC STATEMENT**

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

## **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body