



SIMPLY BETTER!

Previous Preamplifier Specifications

AB	AVP 1000	AVP 1030	AVP 2000	AVP 2030	AVP 3000
Audio Specs					
Surround Sound Processing	DPL	DPL/DD	DPL	DPL/DD	DPL/THX
Freq Response	20Hz-150kHz (+3dB)	20Hz-150kHz (+3dB)	20Hz-150kHz (+3dB)	20Hz-150kHz (+3dB)	20Hz-150kHz (+3dB)
Line Level Sensitivity	63mV	63mV	63mV	63mV	63mV
Line Level (S/N A Weighted)	89dB	89dB	89dB	89dB	89dB
Output Impedance	221Ω	221Ω	221Ω	221Ω	221Ω
Unbalanced Audio Inputs(RCA)	6	6	7	7	7
Balanced Audio Inputs (XLR)	N/A	N/A	N/A	N/A	N/A
Digital Inputs Optical/Coax	0	0/6	0/0	0/6	0/1
Max. Output Level	9 V RMS	9 V RMS	9 V RMS	9 V RMS	9 V RMS
Digital Outputs Optical/Coax	0	0	0	0	0
Unbalanced Preouts(RCA)	6	8	6	6	6
Balanced Preouts (XLR)	N/A	N/A	N/A	N/A	N/A
Analog Audio Outputs	2 sets L&R	2 sets L&R	2 set L&R per zone	2 set L&R per zone	2 set L&R per zone
Number of Zones	1	1	2	2	2
Internal Tuner	Yes	Yes	No	No	No
User Presets	64 Tuner / 8 AV	20AM / 20FM / 20AV	8 per zone	20 AV	20 AV
Video Specs					
Freq Response +/-3 dB	20Hz-10MHz	20Hz-10MHz	20Hz-10kHz	20Hz-10MHz	20Hz-10MHz
Buffered Input Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
Buffered Output Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
Composite Video Ins/Outs	4/4	4/4	4/4	4/4	4/4
S-Video Ins/Outs	0	0	3/3	3/3	3/3
Component Video Ins/Outs	N/A	N/A	N/A	N/A	N/A
Max. Input Level	2V RMS	2V RMS	2V RMS	2V RMS	2V RMS
Max. Output Level RCA & S-Video to Ground	2V RMS	2V RMS	2V RMS	2V RMS	2V RMS
Dimensions (WxHxD)	17x3.5x11	17x3.5x11	17x3.5x11	17x3.5x11	17x3.5x11
Shipping Weight	20	20	20	20	20
Production Run	94-98	96-98	93-98	97-98	96-97
Tuner Specs - FM					
Frequency Range	87.5-107.9MHz	87.5-107.9MHz	N/A	N/A	N/A
Total Harmonic Distortion	<0.25%	<0.25%	N/A	N/A	N/A
Freq Response (+1,-3 dB)	20Hz-15kHz	20Hz-15kHz	N/A	N/A	N/A
Capture Ratio	2dB	2dB	N/A	N/A	N/A
IHF (Usable) Sensitivity	12dBf	12dBf	N/A	N/A	N/A
Mono/Stereo Sensitivity	15/35dBf	15/35dBf	N/A	N/A	N/A
Alternate Channel Selectivity	65dB	65dB	N/A	N/A	N/A
Signal to Noise Ratio	70dB	70dB	N/A	N/A	N/A
Antenna Input Impedance	75Ω	75Ω	N/A	N/A	N/A

AB	AVP 3090	AVP 4000	AVP 4090	AVR 101	AVR 202
Audio Specs					
Surround Sound Processing	DPL / DD / DTS	DPL / THX	DPL / DD / DTS	DPL / DD	DPL / DD / DTS
Freq Response	20Hz-150kHz (+3dB)	20Hz-150kHz (+3dB)	20Hz-150kHz (+3dB)	5Hz-150kHz (+3dB)	5Hz-150kHz (+3dB)
Line Level Sensitivity	63mV	63mV	63mV	90mV	90mV
Line Level (S/N A Weighted)	89dB	89dB	89dB	89dB	89dB
Output Impedance	221Ω	221Ω	221Ω	221Ω	221Ω
Unbalanced Audio Inputs(RCA)	7	6	6	7	7
Balanced Audio Inputs (XLR)	N/A	N/A	N/A	N/A	N/A
Digital Inputs Optical/Coax	0/6	0/1	0/6	5/6	5/6
Max. Output Level	9 V RMS	9 V RMS	9 V RMS	9 V RMS	9 V RMS
Digital Outputs Optical/Coax	0	0	0	1/1	1/1
Unbalanced Preouts(RCA)	6	6	8	8	8
Balanced Preouts (XLR)	N/A	N/A	N/A	N/A	N/A
Analog Audio Outputs	2 sets L&R per zone	2 sets L&R	2 sets L&R	1 set/zone	1 set/zone
Number of Zones	2	1	1	2	2
Internal Tuner	No	Yes	Yes	Yes	Yes
User Presets	20 AV	64 tuner / 8 AV	20AM / 20FM / 20AV	20AM / 20FM	20AM / 20FM
Video Specs					
Freq Response +/-3 dB	20Hz-10MHz	20Hz-10MHz	20Hz-10MHz	20Hz-10MHz	20Hz-10MHz
Buffered Input Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
Buffered Output Impedance	75Ω	75Ω	75Ω	75Ω	75Ω
Composite Video Ins/Outs	4/4	4/4	4/4	7/5	7/5
S-Video Ins/Outs	3/3	0	0	7/5	7/5
Component Video Ins/Outs	N/A	N/A	N/A	N/A	N/A
Max. Input Level	2V RMS	2V RMS	2V RMS	2V RMS	2V RMS
Max. Output Level RCA & S-Video to Ground	2V RMS	2V RMS	2V RMS	2V RMS	2V RMS
Dimensions (WxHxD)	17x3.5x11	17x3.75x12	17x3.75x12	17x6.25x17	17x6.25x17
Shipping Weight	20	20	20	55	55
Production Run	97-98	96-97	97-98	98-00	98-00
Tuner Specs - FM					
Frequency Range	N/A	87.5-107.9MHz	87.5-107.9MHz	87.50-107.90MHz	87.50-107.90MHz
Total Harmonic Distortion	N/A	<0.25%	<0.25%	<0.25%	<0.25%
Freq Response (+1,-3 dB)	N/A	20Hz-15kHz	20Hz-15kHz	20Hz-15kHz	20Hz-15kHz
Capture Ratio	N/A	2dB	2dB	2dB	2dB
IHF (Usable) Sensitivity	N/A	12dBf	12dBf	12dBf	12dBf
Mono/Stereo Sensitivity	N/A	15/35dBf	15/35dBf	15/35dBf	15/35dBf
Alternate Channel Selectivity	N/A	65dB	65dB	64dB	64dB
Signal to Noise Ratio	N/A	70dB	70dB	70dB	70dB
Antenna Input Impedance	N/A	75Ω	75Ω	75Ω	75Ω

AB	AVR 305	AVR 307	PT 3	Ref 10	Ref 20
Audio Specs					
Surround Sound Processing	DPL / DD / DTS / THX	DPL / DD / DTS / THX	N/A	DPL / DD	DPL / DD / DTS
Freq Response	5Hz - 150kHz (+3dB)	5Hz - 150kHz (+3dB)	5Hz-20kHz (+3dB)	5Hz-150kHz (+3dB)	5Hz-150kHz (+3dB)
Line Level Sensitivity	90mV	90mV	63mV	90mV	90mV
Line Level (S/N A Weighted)	89dB	89dB	89dB	89dB	89dB
Output Impedance	221Ω	221Ω	221Ω	221Ω	221Ω
Unbalanced Audio Inputs(RCA)	7	7	6	7	7
Balanced Audio Inputs (XLR)	N/A	N/A	N/A	N/A	N/A
Digital Inputs Optical/Coax	5/6	5/6	0	5/6	5/6
Max. Output Level	3V RMS	3V RMS	8V RMS	9 V RMS	9 V RMS
Digital Outputs Optical/Coax	1/1 ZA & 0/1 ZB	1/1 ZA & 0/1 ZB	0	1/1	1/1
Unbalanced Preouts(RCA)	8	8	N/A	8	8
Balanced Preouts (XLR)	N/A	N/A	N/A	N/A	N/A
Analog Audio Outputs	1 pair ZB	1 pair ZB	4	1 set/zone	1 set/zone
Number of Zones	2	2	1	2	2
Internal Tuner	Yes	Yes	Yes	Yes	Yes
User Presets	40	40	40	20AM / 20FM	20AM / 20FM
Video Specs					
Freq Response +/-3 dB	20Hz - 10MHz	20Hz - 10MHz	No Video Stage	20Hz-10MHz	20Hz-10MHz
Buffered Input Impedance	75Ω	75Ω	No Video Stage	75Ω	75Ω
Buffered Output Impedance	75Ω	75Ω	No Video Stage	75Ω	75Ω
Composite Video Ins/Outs	7/5	7/5	No Video Stage	7/5	7/5
S-Video Ins/Outs	7/5	7/5	No Video Stage	7/5	7/5
Component Video Ins/Outs	2/1	2/1	No Video Stage	N/A	N/A
Max. Input Level	2 V P-P	2 V P-P	No Video Stage	2V RMS	2V RMS
Max. Output Level RCA & S-Video to Ground	2 V P-P	2 V P-P	No Video Stage	2V RMS	2V RMS
Dimensions (WxHxD)	17x7x15.5	17x7x15.5	17x3.5x10	17x6.25x17	17x6.25x17
Shipping Weight	55	55	16	20	20
Production Run	00-02	00-02	99-02	98-00	98-00
Tuner Specs - FM					
Frequency Range	87.50-107.90MHz	87.50-107.90MHz	87.50-107.90MHz	87.50-107.90MHz	87.50-107.90MHz
Total Harmonic Distortion	<0.25%	<0.25%	<0.25%	<0.25%	<0.25%
Freq Response (+1,-3 dB)	20Hz-15kHz	20Hz-15kHz	20Hz-15kHz	20Hz-15kHz	20Hz-15kHz
Capture Ratio	2dB	2dB	2dB	2dB	2dB
IHF (Usable) Sensitivity	12dBf	12dBf	12dBf	12dBf	12dBf
Mono/Stereo Sensitivity	15/35dBf	15/35dBf	15/35dBf	15/35dBf	15/35dBf
Alternate Channel Selectivity	65dB	65dB	65dB	64dB	64dB
Signal to Noise Ratio	70dB	70dB	70dB	70dB	70dB
Antenna Input Impedance	75Ω	75Ω	75Ω	75Ω	75Ω

AB	Ref 30
Audio Specs	
Surround Sound Processing	DPL / DD / DTS / THX
Freq Response	5Hz - 150kHz (+3dB)
Line Level Sensitivity	90mV
Line Level (S/N A Weighted)	89dB
Output Impedance	221Ω
Unbalanced Audio Inputs(RCA)	7
Balanced Audio Inputs (XLR)	N/A
Digital Inputs Optical/Coax	5/6
Max. Output Level	3V RMS
Digital Outputs Optical/Coax	1/1ZA & 0/1ZB
Unbalanced Preouts(RCA)	8
Balanced Preouts (XLR)	N/A
Analog Audio Outputs	1 pair ZB
Number of Zones	2
Internal Tuner	Yes
User Presets	40
Video Specs	
Freq Response +/-3 dB	20Hz - 10MHz
Buffered Input Impedance	75Ω
Buffered Output Impedance	75Ω
Composite Video Ins/Outs	7/5
S-Video Ins/Outs	7/5
Component Video Ins/Outs	2/1
Max. Input Level	2 V P-P
Max. Output Level RCA & S-Video to Ground	2 V P-P
Dimensions (WxHxD)	17x7x15.5
Shipping Weight	20
Production Run	00-02
Tuner Specs - FM	
Frequency Range	87.50-107.90MHz
Total Harmonic Distortion	<0.25%
Freq Response (+1,-3 dB)	20Hz-15kHz
Capture Ratio	2dB
IHF (Usable) Sensitivity	12dBf
Mono/Stereo Sensitivity	15/35dBf
Alternate Channel Selectivity	65dB
Signal to Noise Ratio	70dB
Antenna Input Impedance	75Ω

AB	AVP 1000	AVP 1030	AVP 2000	AVP 2030	AVP 3000
Tuner Specs - AM					
Frequency Range	520-1620kHz	520-1620kHz	N/A	N/A	N/A
Total Harmonic Distortion	0.30%	0.30%	N/A	N/A	N/A
Sensitivity	28dB μ	28dB μ	N/A	N/A	N/A
Selectivity	30dB	30dB	N/A	N/A	N/A
Antenna Input Impedance	N/A	N/A	N/A	N/A	N/A
	AVP 3090	AVP 4000	AVP 4090	AVR 101	AVR 202
Tuner Specs - AM					
Frequency Range	N/A	520-1620kHz	520-1620kHz	520-1620kHz	520-1620kHz
Total Harmonic Distortion	N/A	0.30%	0.30%	<0.3%	<0.3%
Sensitivity	N/A	28dB μ	28dB μ	28dB	28dB
Selectivity	N/A	30dB	30dB	30dB	30dB
Antenna Input Impedance	N/A	N/A	75 Ω	300 Ω	300 Ω
	AVR 305	AVR 307	PT 3	Ref 10	Ref 20
Tuner Specs - AM					
Frequency Range	520-1670kHz	520-1670kHz	520-1670kHz	520-1620kHz	520-1620kHz
Total Harmonic Distortion	<0.3%	<0.3%	<0.3%	<0.3%	<0.3%
Sensitivity	28dBf	28dBf	28dB	28dB	28dB
Selectivity	30dB	30dB	30dB	30dB	30dB
Antenna Input Impedance	300 Ω	300 Ω	300 Ω	300 Ω	300 Ω
	Ref 30				
Tuner Specs - AM					
Frequency Range	520-1670kHz				
Total Harmonic Distortion	<0.3%				
Sensitivity	28dB				
Selectivity	30dB				
Antenna Input Impedance	300 Ω				