

# APS - Product Technical Specifications

	KLASIK	KLASIK 2020	AEON	AEON 2	COAX COAX special version	TRINITY vertical, horiz. TRINITY floorstander	AEON 2 BASS EXTENDER	SUB 10	SUB 12	SUB 15
<b>Field Monitor</b>	Near	Near	Near-medium	Near-medium	Near	Far	Bass extender	Subwoofer	Subwoofer	Subwoofer
Type	Active – two power amplifiers – AB class	<b>Active – two power amplifiers – AB class</b>	Active – two power amplifiers – AB class	Active – two power amplifiers – AB class	Active – two power amplifiers – AB class	Active – three power amplifiers – AB class	Active – high-efficient power amplifier – D class	Active – high-efficient power amplifier – D class	Active – high-efficient power amplifier – D class	Active – high-efficient power amplifier – D class
System	Two-way	<b>Two-way</b>	Two-way	Two-way	Two-way (coaxial)	Three-way	One-way	One-way	One-way	One-way
Crossover Frequency	3.2 kHz	<b>3.2 kHz</b>	1.5 kHz	2.7 kHz	3 kHz	260 Hz, 5 kHz	Controlled: 40 – 100 Hz	Controlled: 40 – 90 Hz	Controlled: 40 – 90 Hz	Controlled: 27 – 120 Hz
Dimensions (with heatsink): Height x Width x Depth	32 cm x 21 cm x 28 cm 12.6" x 8.3" x 11"	<b>36 cm x 21 cm x 32 cm 14.2" x 8.3" x 12.6"</b>	42.2 cm x 27.2 cm x 36.2 cm 16.6" x 10.7" x 14.3"	37 cm x 22 cm x 38.4 cm 14.6" x 8.7" x 15.1"	21.2 cm x 33.2 cm x 26.2 cm 8.3" x 13.1" x 10.3"	60 cm x 32 cm x 60.9 cm 23.6" x 12.6" x 24"	37 cm x 28 cm x 35 cm 14.6" x 11" x 13.8"	39 cm x 39 cm x 40 cm 15.4" x 15.4" x 15.7"	49.4 cm x 49.4 cm x 49.4 cm 19.4" x 19.4" x 19.4"	70 cm x 60 cm x 60 cm 27.6" x 23.6" x 23.6"
Free Field Frequency Response	± 2 dB: 35 Hz ± 25 kHz	<b>± 2 dB: 39 Hz ± 25 kHz</b>	± 2 dB: 30 Hz ± 30 kHz	± 2 dB: 38 Hz ± 33 kHz	± 2 dB: 30 Hz ± 30 kHz	- 6 dB: 56 Hz ± 21 kHz	± 2 dB: 28 Hz ± 30 kHz	± 2.5 dB: 21 Hz ± 100 Hz	± 2.5 dB: 19 Hz ± 90 Hz	± 2.5 dB: 18 Hz ± 100 Hz
SPL <sub>max</sub> in Free Field @ 1m	RMS: 103 dB (single) Peak: 111 dB (pair)	<b>RMS: 105.5 dB (single) Peak: 113.5 dB (pair)</b>	RMS: 108 dB (single) Peak: 116 dB (pair)	RMS: 108 dB (single) Peak: 116 dB (pair)	RMS: 102 dB (single) Peak: 110 dB (pair)	RMS: 110 dB (single) Peak: 118 dB (pair)	RMS: 104 dB (single) Peak: 112 dB (pair)	RMS: 105 dB (single) Peak: 113 dB (pair)	RMS: 110 dB (single) Peak: 118 dB (pair)	RMS: 112/122 dB (single) Peak: 120/130 dB (pair)
Weight (single)	8.5 kg / 18.7 lbs	<b>10 kg / 22 lbs *</b>	18 kg / 39.7 lbs.	15.2 kg / 33.5 lbs.	11 kg / 24.3 lbs.	37 kg / 81.6 lbs	16 kg / 35.3 lbs. *	24 kg / 52.9 lbs.	38 kg / 83.8 lbs. *	90 kg / 198 lbs.

\* - preliminary

<b>Loudspeakers</b>										
Bass/Mid-Range Loudspeaker or Bass Loudspeaker (Trinity & Subs)	φ 18 cm (7")	<b>φ 18 cm (7")</b>	φ 22 cm (8 2/3")	φ 18 cm (7")	φ 18 cm (7")	φ 27 cm (10 2/3")	φ 23 cm (9")	φ 29 cm (11 1/3")	φ 35 cm (13 2/3")	φ 40 cm (15 2/3")
	Diaphragm: cellulose, surround: rubber	<b>Diaphragm: cellulose, surround: rubber</b>	Diaphragm: cellulose, surround: rubber	Diaphragm: cellulose, surround: rubber	Diaphragm: PP/TPX, surround: rubber	Diaphragm: cellulose, surround: rubber	Diaphragm: stiff PP, large surround: rubber	Diaphragm: hard paper, surround: rubber	Diaphragm: hard paper, surround: rubber	Diaphragm: cellulose, surround: corrugated cloth
Midrange Loudspeaker	-	-	-	-	-	φ 14.6 cm (5 2/3")	-	-	-	-
	-	-	-	-	-	Diaphragm: reed/paper, surround: rubber	-	-	-	-
Tweeter Loudspeaker	φ 1.9 cm (3/4") double magnet	<b>φ 1.9 cm (3/4") double</b>	φ 2.5 cm (1") in two versions:	φ 1.9 cm (3/4")	φ 2.5 cm (1")	φ 2.5 cm (1") in two versions:	-	-	-	-
	Aluminium dome, surround: soft	<b>Aluminium dome, surround: soft</b>	Fabric dome Titanium dome	Fabric dome, surround: wide and soft	Fabric dome Coaxial	Titanium dome Fabric dome	-	-	-	-

<b>Amplifiers</b>										
Bass/Mid-Range Power Amplifier or Bass Power Amplifier (Trinity & Subs)	75 W RMS @ 8 Ohms	<b>100 W RMS @ 8 Ohms</b>	140 W RMS @ 4 Ohms	195 W RMS @ 4 Ohms	75 W RMS @ 8 Ohms	330 W RMS @ 4 Ohms	400 W RMS @ 4 Ohms	300 W RMS @ 6 Ohms	450 W RMS @ 7.6 Ohms	1600 W RMS @ 8 Ohms
Midrange Power Amplifier	-	-	-	-	-	190 W RMS @ 8 Ohms	-	-	-	-
Tweeter Power Amplifier	75 W RMS @ 8 Ohms	<b>100 W RMS @ 8 Ohms</b>	106 W RMS @ 6 Ohms	130 W RMS @ 6 Ohms	90 W RMS @ 6 Ohms	235 W RMS @ 6 Ohms	-	-	-	-
THD Distortions or THD+N (Subwoofers)	0.005 % @ 5 W, 1 kHz; 0.1 % max @ 0.1 up to 50 W, 20 Hz up to 20 kHz	<b>0.005 % @ 5 W, 1 kHz; 0.1 % max @ 0.1 up to 50 W, 20 Hz up to 20 kHz</b>	0.005 % @ 5 W, 1 kHz; 0.1 % max @ 0.1 up to 50 W, 20 Hz up to 20 kHz	0.005 % @ 5 W, 1 kHz; 0.04 % max @ 0.1 up to 50 W, 20 Hz up to 20 kHz	0.005 % @ 5 W, 1 kHz; 0.1 % max @ 0.1 up to 50 W, 20 Hz up to 20 kHz	0.005 % @ 5 W, 1 kHz; 0.1 % max @ 0.1 up to 50 W, 20 Hz up to 20 kHz	0.004 % max @ 1 W; 0.05 % max @ Pmax / 2, 20 Hz up to 20 kHz	0.004 % max @ 1 W; 0.05 % max @ Pmax / 2, 20 Hz up to 20 kHz	0.005 % max @ 1 W; 0.02 % max @ Pmax / 2, 20 Hz up to 20 kHz	0.03 % max @ 1 W; 0.05 % max @ Pmax / 2, 20 Hz up to 20 kHz
Input Voltage Level	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 96 dB SPL in Free Field @ 1m	<b>0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 96 dB SPL in Free Field @ 1m</b>	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 96 dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m	0 dBu (i.e. 0.775 V) - calibrated regulators in 0dB positions - for 100dB SPL in Free Field @ 1m

<b>Calibrated Controls</b>										
Input Sensitivity Switch or Switches (Subwoofers)	-10.5dB, -9dB, -7.5dB, -6dB, -4.5dB, -3dB, -1.5dB, 0dB	<b>-10.5dB, -9dB, -7.5dB, -6dB, -4.5dB, -3dB, -1.5dB, 0dB</b>	30dBu, 22dBu, 15dBu, 9dBu, 4dBu, 0dBu, -3dBu, 10dBV	-10.5dB, -9dB, -7.5dB, -6dB, -4.5dB, -3dB, -1.5dB, 0dB	30dBu, 22dBu, 15dBu, 9dBu, 4dBu, 0dBu, -3dBu, 10dBV	30dBu, 22dBu, 15dBu, 9dBu, 4dBu, 0dBu, -3dBu, 10dBV	(-4.5dB, -3dB, -1.5dB, 0dB, 1.5dB, 3dB, 4.5dB, 6dB) + (-12dB, -6dB, 0dB)	(-4.5dB, -3dB, -1.5dB, 0dB, 1.5dB, 3dB, 4.5dB, 6dB) + (-20dB, -10dB, 0dB)	(-4.5dB, -3dB, -1.5dB, 0dB, 1.5dB, 3dB, 4.5dB, 6dB) + (-20dB, -10dB, 0dB)	(30dBu, 22dBu, 15dBu, 9dBu, 4dBu, 0dBu, -3dBu, 10dBV) + (0dB, 6dB)
Tweeter Loudspeaker Level Switch or Phase Switch (Subwoofers)	-1.5dB, 0dB, 1.5dB	<b>-1.5dB, 0dB, 1.5dB</b>	-5dB, -3dB, -1.5dB, -0.5dB, 0dB, 0.5dB, 1.5dB, 3dB	-1.5dB, 0dB, 1.5dB	-5dB, -3dB, -1.5dB, -0.5dB, 0dB, 0.5dB, 1.5dB, 3dB	-	-	Phase: 0 / 180	Phase: 0 / 180	Phase: 0 / 90 / 180 / 270
Bass Controller Switch or Drivers Switch (Trinity) or Unfiltered Switch (Subs)	Bass: Extended, Passive, Roll Off – refer to USER'S MANUAL	<b>Bass: Active - switch 1&amp;3, Passive - switch 2 – refer to USER'S MANUAL</b>	Bass Controller: ON / OFF	Bass: Active, Passive, Roll Off – refer to USER'S MANUAL	Bass Cut Off: ON / Off – refer to USER'S MANUAL	Woofer: ON / OFF, Midrange Direct: ON / OFF	-	Unfiltered: ON / OFF	Unfiltered: ON / OFF	Unfiltered: ON / OFF
Equalizer or Bass Boost / Roll Off Switch (Aeon) or Cut Off Switch (Subs)	-	-	Bass Controller @ 34Hz - 15dB, -12dB, -9dB, -6dB, -3dB, 0dB, 3dB, 6dB	Woofer Equalizer @ 80Hz - 3dB, -1.5dB, 0dB	-	Equalizer -3dB, 0dB, 3dB: 40 Hz, 125 Hz, 625 Hz, 3125 Hz, 15625 Hz	Aeon 2 Bass (monitor-extender crossover freq.): Active (35Hz), Passive (50Hz), Roll Off (100Hz)	CutOff: 40 Hz, 45 Hz, 50 Hz, 57 Hz, 63 Hz, 71 Hz, 80 Hz, 90 Hz	CutOff: 34 Hz, 41 Hz, 49 Hz, 58 Hz, 69 Hz, LFE: 80 Hz, 100 Hz, 120 Hz	CutOff: (27 Hz, 31 Hz, 35 Hz, 40 Hz, 48 Hz, 59 Hz, 81 Hz, 120 Hz) + (Deep Bass: ON / OFF)
Ground-Lift Switch	Ground Lift: ON / OFF	<b>Ground Lift: ON / OFF</b>	Ground Lift: ON / OFF	Ground Lift: ON / OFF	Ground Lift: ON / OFF	Ground Lift: ON / OFF	Ground Lift: ON / OFF	Ground Lift: ON / OFF	Ground Lift: ON / OFF	Ground Lift: ON / OFF
Standby Switch	Standby on request	- *	-	-	-	-	Standby: ON / OFF	Standby: ON / OFF	Standby: ON / OFF	Standby: ON / OFF
AC Voltage Switch	115 V or 230 V on request	<b>115 V or 230 V on</b>	115 V or 230 V on request	Selector: 115 V / 230 V	115 V or 230 V on request	115 V or 230 V on request	Selector: 115 V / 230 V	Selector: 115 V / 230 V	Selector: 115 V / 230 V	Selector: 115 V / 230 V

\* - preliminary

# APS - Product Technical Specifications

	KLASIK	KLASIK 2020	AEON	AEON 2	COAX COAX special version	TRINITY vertical, horiz. TRINITY floorstander	AEON 2 BASS EXTENDER	SUB 10	SUB 12	SUB 15
<b>Inputs, Outputs</b>										
Input	Two types:	<b>Two types:</b>	Two types (common socket Combo):	Two types (common socket Combo):	Two types (common socket Combo):	Two types (common socket Combo):	Three types (including common socket Combo):	2 x Three types (including common socket Combo):	2 x Three types (including common socket Combo):	2 x Two types (common socket Combo):
	XLR symmetrical (balanced)	<b>XLR symmetrical (balanced)</b>	XLR symmetrical (balanced)	XLR symmetrical (balanced)	XLR symmetrical (balanced)	XLR symmetrical (balanced)	XLR symmetrical (balanced)	2 x XLR symmetrical (balanced)	2 x XLR symmetrical (balanced)	2 x XLR symmetrical (balanced)
	-	-	TRS symmetrical (balanced) "6.3 mm"	TRS symmetrical (balanced) "6.3 mm"	TRS symmetrical (balanced) "6.3 mm"	TRS symmetrical (balanced) "6.3 mm"	TRS symmetrical (balanced) "6.3 mm"	2 x TRS symmetrical (balanced) "6.3 mm"	2 x TRS symmetrical (balanced) "6.3 mm"	2 x TRS symmetrical (balanced) "6.3 mm"
	RCA asymmetrical (unbalanced)	<b>RCA asymmetrical (unbalanced)</b>	-	-	-	-	RCA asymmetrical (unbalanced)	2 x RCA asymmetrical (unbalanced)	2 x RCA asymmetrical (unbalanced)	-
	Input impedance 10 kOhms	<b>Input impedance 10 kOhms</b>	Input impedance 10 kOhms	Input impedance 10 kOhms	Input impedance 10 kOhms	Input impedance 10 kOhms	Input impedance 10 kOhms	Input impedance 10 kOhms	Input impedance 10 kOhms	Input impedance 10 kOhms
Output - „Loop Through“	-	-	XLR symmetrical	XLR symmetrical	XLR symmetrical	XLR symmetrical	XLR symmetrical	2 x XLR symmetrical	2 x XLR symmetrical	Symmetrical: 2 x XLR + 2 x XLR HP-filtered 70 Hz
	-	-	Output impedance 100 Ohms	Output impedance 100 Ohms	Output impedance 100 Ohms	Output impedance 100 Ohms	Output impedance 100 Ohms	Output impedance 100 Ohms	Output impedance 100 Ohms	Output impedance 100 Ohms
Bypass	-	-	-	-	-	-	RCA bypass: ON / OFF	RCA bypass: ON / OFF	RCA bypass: ON / OFF	RCA bypass: ON / OFF

<b>Protections</b>										
Power Amplifiers Protections	Pop-free start & stop control, thermal, short circuit and overload protections	<b>Pop-free start &amp; stop control, thermal, short circuit and overload protections</b>	Pop-free start & stop control, interference, thermal, short circuit and overload protections	Pop-free start & stop control, interference, thermal, short circuit and overload protections	Pop-free start & stop control, interference, thermal, short circuit and overload protections	Pop-free start & stop control, interference, thermal, short circuit and overload protections	Pop-free start & stop control, DC-fault detection, overcurrent & overvoltage protection	Pop-free start & stop control, DC-fault detection, overcurrent & overvoltage protection	Pop-free start & stop control, overtemperature protection, overcurrent & overvoltage protection	Pop-free start & stop control, DC-fault, clipping detection, overcurrent & overvoltage protection
Clipping	-	<b>LED</b>	LEDs	LEDs	LEDs	LEDs	LED	LED	LED	LED
Prevention from Interferences and Hums	GROUND LIFT switch	<b>GROUND LIFT switch</b>	GROUND LIFT switch	GROUND LIFT switch	GROUND LIFT switch	GROUND LIFT switch	GROUND LIFT switch	GROUND LIFT switch	GROUND LIFT switch	GROUND LIFT switch

<b>Signaling Devices</b>										
Power Switching On	Lit up green LED or in standby version lit up white (standby red)	<b>Lit up logo – blue LED</b>	Lit up logo – blue or white LED	White glow at the rear of the monitor	Lit up logo – blue or white LED	Lit up logo – blue or white LED	Lit up green LED (standby orange)	Lit up logo – blue or white LED & lit up green LED (standby orange)	Lit up logo – blue or white LED & lit up green LED (standby orange)	Lit up green LED (standby orange)
Tweeter Protection On	-	-	Lit up logo – green LED	Lit up logo – green LED	Lit up logo – green LED	Lit up logo – green LED	-	-	-	-
Mid-Range Protection On	-	-	-	-	-	Lit up logo – yellow LED	-	-	-	-
Bass/Midwoofer Prot. On	-	<b>Lit up logo – red LED</b>	Lit up logo – red LED	Lit up logo – red LED	Lit up logo – red LED	Lit up logo – red LED	Lit up logo – red LED	Lit up logo – red LED	Lit up logo – red LED	Lit up logo – red LED

## Specifications – Appendix

	KLASIK	KLASIK 2020	AEON	AEON 2	COAX special version	TRINITY monitor vertical	AEON 2 BASS EXTENDER	SUB 10	SUB 12	SUB 15
				box depth: 35 cm, 13.8"	ampl. & time optimized	box depth: 56 cm, 22"				
						TRINITY monitor horizontal				
Dimensions (with heatsink*): Height x Width x Depth						32 cm x 60 cm x 61.6 cm* 12.6" x 23.6" x 24.3"*				
						box depth: 56 cm, 22"				
						TRINITY floorstander				
Dimensions (with heatsink*): Height x Width x Depth						105 cm x 32 cm x 41.9 cm* 41.3" x 12.6" x 16.5"*				
						box depth: 37 cm, 14.6"				

A wide range of special box finishes is available on request