

# Technical data: CA-1a

Circum-Aural, Open Back, True-Ribbon, Headphone

## Motor

Hand Calibrated	Triple Measured, Matched Pair
Viscodamp™	“Silent Metal” Viscosity Dampening
Compremag™ Magnet System	Compressed Homogeneous Field
Symmlead™	Ultra-Low Inductance Air-Loop Tracing
Ribbon Motorplate	Field Replacement/Core Exchange
Type	Corrugated Pure Aluminum
Length	3.0-inches / 75 mm
Width	0.75-inches / 13 mm
Excursion	+/- 3.75 mm
Moving Mass	0.045 gram
Nominal Impedance	0.02Ω
Nominal Impedance with SC2 Cable	0.25Ω
Nominal Impedance with Star-8 Cable	0.25Ω
FreeAir Resonance (new)	25Hz
FreeAir Resonance (after break-in)	15Hz ~ 100 hours
Acoustic Dampening	Internal Cotton Absorbers
Maximum SPL	115dB

## Body

Material	High-Density, Glass-Fiber Polycarbonate
Finish	Scratch-Resistant, Graphite-Stone
Grille	Etched, High Perforation Ratio Hex Mesh
Headspring	Bead Blasted Stainless Steel
Height Adjustment	5-Position Single-Layer, Leather Band
Earcups Normal Tuning (Coffee Bean)	77x52mm Elliptical Open Cell Memory Foam
Earcups Sub-Bass (Donut)	77x52mm Elliptical Open Cell Memory Foam

Input Connectors	High-Current 3.5 mm TRRS Female Connectors
Total Weight	446 gm / 0.98 lbs

### Amplifier Interface Set (optional)

<b>TI-1b</b> Transformer Interface	Toroidal Transformers 16Ω & 32Ω	
<b>SC2</b> Headphone Cable	1.75M / 5'9" (fixed length) Dedicated Headphone Cable	
<b>ITI-XLR</b> Interface Cable (for HP Amp)	35cm / 13"	<b>4-pin XLR / 4-pin XLR</b>
Power Requirement (Minimum)	2W@16Ω or 2W@32Ω	
Power Requirement (Maximum)	25W@8Ω (6W@32Ω)	
High-Power Amps	Tested to 350W Permissible with Careful Volume Adjustment	

### Cable (options)

<b>STAR-8 Pure Silver</b> Ribbon Headphone Cable Available Lengths for TI-1b:		<b>4-pin XLR to 4-pin XLR</b> 1.83m / 6ft
<b>STAR-8 Pure Copper</b> Ribbon Headphone Cable Available Lengths for TI-1b:		<b>4-pin XLR to 4-pin XLR</b> 1.83m / 6ft
<b>ITI-XLR</b> Input to Transformer Interface (for HP Amp) Available Lengths:		<b>4-pin XLR to 4-pin XLR</b> 1.83m / 6ft and 3m / 10ft
<b>ITI-XLR(S) STAR-8 Pure Silver</b> Available Lengths:	35cm / 13" -	<b>4-pin XLR to 4-pin XLR</b> 1.83m / 6ft - 3m / 10ft
<b>ITI-XLR(C) STAR-8 Pure Copper</b> Available Lengths:	35cm / 13" -	<b>4-pin XLR to 4-pin XLR</b> 1.83m / 6ft - 3m / 10ft
<b>ITI-TRS</b> Input to Transformer Interface (for HP Amp) Available Lengths:		<b>4-pin XLR / TRS 6.3m 1/4"</b> 35cm / 13" - 1.83m / 6ft - 3m / 10ft
<b>ITI-TRS(S) STAR-8 Pure Silver</b> Available Lengths:	35cm / 13" -	<b>4-pin XLR / TRS 6.3m 1/4"</b> 1.83m / 6ft - 3m / 10ft
<b>ITI-TRS(C) STAR-8 Pure Copper</b> Available Lengths:	35cm / 13" -	<b>4-pin XLR / TRS 6.3m 1/4"</b> 1.83m / 6ft. - 3m / 10ft
<b>ITI-BAN</b> Input to Transformer Interface (for HP Amp) Available Lengths:		<b>4-pin XLR to BANANA</b> 35cm / 13" - 1.83m / 6ft - 3m / 10ft

### Service and Warranty

Limited Warranty	5 years to Original Owner, Non-Transferable (See Warranty)
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