V7+ Single Output Hearing Loop Driver

V7-PLUS-UK / V7-PLUS-EU
V7-PLUS-AUS / V7-PLUS-USJ

Our highly efficient and compact V7+ is a constant current, single output hearing loop driver suitable for smaller facilities and venues.

It has a Class-D amplifier output stage and an audio subsystem built around an advanced DSP core. Combined with a powerful CPU to ensure peak performance, the V7+ uses cutting edge technology proven in the pro audio world to achieve life-like speech and first-class music reproduction.

Features

- DSP controlled automatic gain control and high frequency compensation for metal loss
- Class-D amplifier output stage capable of delivering $5A_{RMS}$ @ $>7V_{RMS}$
- Ultra-efficient power utilisation (up to 90% efficient)
- High pass filter
- Audio time delay
- Switchable AGC (Automatic Gain Control)
- Enhanced loop diagnostics
- True constant current output stage
- Simple user interface
- Backlit LCD display
- Sleep mode
- Continuous self-testing
- Integrated protection circuits with temperature, voltage, short circuit and DC detection
- Compact half-width 1U chassis (compatible 6U Rack Cabinet available upon request)

Applications

Suitable for smaller sized facilities such as:

- Meeting rooms
- Classrooms
- Care & nursing rooms
- Waiting rooms

Voltage and Current

- >7.5 VRMS @ 5A RMS

Accessories

- Single V-Series Mounting Bracket [MBR-V1]
- Dual V-Series Mounting Shelf [MBR-V2]
- Blanking Plate for Dual V-Series Mounting Shelf [MBR-VBLANK]
- 6U Rack Cabinet [IL-AC-RACK-19]

Talk to us now:
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Components

- V7+ Hearing Loop Driver
- PS-55 Power Supply

Driver Area Coverage	Area		
	1:1	1:2	1:3
	95.06m²	143.00m²	178.64m²

All perimeter loop areas calculated under the following conditions: Area at maximum driver current without voltage clipping at 1.6KHz * Loop designed to achieve 0dB in centre of the area * calculated with 25mm x 0.1mm flat copper tape * loop cable installed on floor * listening plane 1.2m

Physical Data

Dimensions	Height – 42mm (1.65") Width – 196mm (7.80") Depth – 132mm (5.20") [150mm (5.90") incl. XLR and control dial]
Weight	938g (2.06lbs)
Construction	Mild Steel
Finish	Black Powder Coated

Technical Data

Power Supply	30W 14Vdc 2.14A via External PSU (PS-55) Class 6 External PSU (100V-240V AC 50Hz-60Hz)	
Inputs	1 X Balanced Line Level (3 Pin Euro-Block) or 1 X Balanced Line Level (XLR) [optimised for -10dBV to 0dBv]	
	1 X Mic Level (12V phantom power via 680Ω) [optimised for levels above -45dBv]	
	1 X DC Input	
Outputs	1 X Loop Output (5.08mm Euro-Block)	
Loop Output Characteristics	Voltage	7.5Vrms (21.21Vpk-pk) @ 5Arms (14.14Apk-pk)*
	Current	5Arms (14.14Apk-pk) up to 300 seconds*
	Loop Connector	5.08mm Euro-block
Audio System	Frequency Response	80Hz to 6.5kHz
	Distortion	THD+N <1% (-40dB)
	AGC	Switchable (ON/OFF)
	HF Comp	7 optimised stages
	Acoustic Time Delay	10ms to 70ms adjustable in 1ms steps
Display & Controls	Display	LED Backlit LCD display
	Control	Single rotary control
Fault Monitoring and Protection	Main Display	Open circuit loop (DCR measurement)
		Loop ground fault
	Front Panel LED	Output voltage clipping
	Cooling	Internal heatsink with thermal protection

***Note 1:** Z=1.4Ω (133uH +0.685Ω @ 1.6kHz) **Note 2:** < 1% (-40dB) distortion)

Rear Connections

Standards

- Induction loop performance compliant with BS EN60118-4 (when correctly installed)

Legislation

Directive Number	Directive Title
2014/30/EU	The Electromagnetic Compatibility Directive
Test Standards:	EN 55032:2015, Class B
	> EN55016-2-1:2009 A1 2011
	> EN55016-2-3:2010 A1 2010
	EN 55103-2:2009 E2
	> EN61000-4-2:2009
	> EN61000-4-3:2006 A1 2008 A2 2010
	> EN61000-4-4:2012
	> EN61000-4-5:2014
	> EN61000-4-6:2009
	> EN61000-4-11:2004
	EN 61000-3-2:2014
	EN 61000-3-3:2013
2014/35/EU	Low Voltage Directive (LED)
2012/19-EU	Waste Electrical & Electronic Equipment (WEEE) Directive
2011/863/EU	The Restriction of Hazardous Substances Directive