

RCL – REVERBERATION UNIT

Model CV 571 T



Application:

In most modern recordings several sound tracks have to be combined with reverberation before mixing. Using conventional means, space requirements and cost become often prohibitive. The REVERBERATION UNIT Model CV 571 T affords an alternative, satisfying both economical and musical requirements.

Description:

The Model CV 571 T is a relatively compact unit that incorporates the mechanical delay line (springs), exciter and equalized output amplifier as well as its own power supply. The reverberation time is continuously variable by means of a mechanical attenuating device, adjustable from the front panel. The unique design of the dampening member reduces considerably the objectionable resonances usually inherent to the spring delay principle.

The delay line is carefully isolated against mechanical vibrations and several units can be mounted, one above the other, in a standard 19 inch rack.

The amplifiers are solid state with Si-Transistors and one integrated circuit. The exciter amplifier is a push-pull class A circuit with infinite source impedance in order to supply a constant current into the inductive driver transducer over the entire usable frequency range. Reflections or irregularities in the impedance of the spring driver transducer can thus not cause distortion of the drive current.

The pick-up transducer is connected to a low noise preamplifier followed by an IC-output amplifier and an output transformer with normally two paralleled secondaries. With a load of 200Ω the output voltage can rise to approximately 6 V r.m.s. With the output level adjusted to + 1.55 V r.m.s. (with white noise or wobbled frequencies) an overload capacity of 12 db is obtained. If a higher average output level than + 6 dbm is desired, the two secondaries can be connected in series, the minimum load impedance is then 600Ω .

SENNHEISER ELECTRONIC CORPORATION (N.Y.)

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For improved signal to noise ratio the internal operating dc voltage is electronically stabilized. The circuitry is of the current limiting type and therefore short circuit proof.

Line voltage variations of 10% can be accommodated. With a small alteration the CV 571 T can be operated from an outside 24 V dc power supply.

With the CV 571 T reverberation unit mounted in a rack, the front panel can be easily removed (two knurled thumb screws) and the internal controls become accessible as well as the glass polyester p.c. board with the two amplifiers and the regulated power supply.

Technical Data:

Input Impedance:	5.000 Ω	
Input Circuit:	Transformer balanced, floating. Can be used for single ended circuits by connecting #1 with #3 at the input receptacle.	
Normal Input Level:	+ 6 dbm, adjustable	
Minimum Input Level:	0 dbm	
Output Circuit:	Balanced, floating output transformer with two identical secondary windings.	
	(1) windings parallel	(2) windings in series
Source Impedance:	40 Ω	150 Ω
Minimum Load:	200 Ω	600 Ω
Average Output Level: (adjustable)	0 to +6 dbm	0 to + 15 dbm
Overload Capability:	12 db above average output level	
Signal to Noise Ratio:	Approximately 60 db	
Reverberation Time:	0 to 3 seconds, adjustable	
Internal Supply Voltage:	+ 24 V, electronically stabilized	
Line Voltage Range for Proper Stabilization	100 to 140 V a.c.	200 to 270 V a.c. (line voltage selector switch provided)
Line Frequency:	50/60 Hz	
Power Consumption:	10 to 12 Watts	
Active Circuit Components:	Si-Transistors and IC	
Dimensions:	For 19" standard rack 3½" front panel height 12½" deep	
Weight:	13 lbs.	
Input Receptacle:	Cannon XLR-3-13	
Output Receptacle:	Cannon XLR-3-14	
Fuse:3 A fast (for 117 V line)	
Consumer Net Price:	\$485.00 f.o.b. New York	

Write or call:

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