

Pamphonic

HIGH FIDELITY EQUIPMENT

25 WATT AMPLIFIER & PRE-AMPLIFIER

(Accepted by Council of Industrial Design for "Design Index.")
Response flat from 2 to 80,000 cycles. Hum and noise
90 dB below full output. Total distortion only
.05% at 1 Kc. at 15 watts.

- Overall performance flat from 2 to 100,000 cycles.
- Uses both positive and negative feedback to achieve a damping factor adjustable to infinity.
- Excellent transient response
- Conservatively rated at 25 watts, distortion-free output.
- Control unit employs a cathode follower output circuit permitting coupling cables to be up to 25 feet without loss.
- Employs standard tubes with exact American equivalents.

Exhaustive research, inordinately fine engineering and individual hand-crafting have produced this new standard in amplifier performance . . . hitherto obtainable only in the laboratory. The new Pamphonic 2001 Amplifier provides 25 watts of absolutely faithful reproduction all the way from 15 cycles to 30,000 cycles. Hum and noise are more than 90 dB below full output on each closely checked unit (this is the quietest amplifier yet offered to this market) and total harmonic distortion is less than .05% at 15 watts (1,000 cycles).

The versatile companion control centre included, features pre-amplifier inputs for AM FM Tuners, tape recorders, microphone and gramophone (phonograph), and wide range continuous adjustable bass and treble controls. Output available after tone control circuits for tape recorder. Pre-set attenuation controls for various input levels.



This pre-amplifier is designed for the home music system of the most discriminating enthusiast.

Six push-buttons are provided to give an individual correction network for every important recording characteristic, so there's no need to compromise on the "nearest," as the right one is always at your fingertips.

The output feeds any good class power amplifier, from which it derives its H.T. and L.T. supplies. Independent outputs are given by the two separate cathode follower valves, one being subject to the gain control. This arrangement permits the attachment of a tape recorder to the uncontrolled output and the programme to be monitored from a loudspeaker and power amplifier fed from the controlled output.

The input terminals cater for Microphone, Gram, Pick-up, Radio and Tape. The Gramophone motor can be fed directly from a two-pin mains socket on the rear. There is also a socket for H.T. and L.T. supplies to a radio tuner. Separate controls for every range ensures flexibility to suit acoustics in any room.



AMPLIFIER TYPE 2001 AND PRE-AMPLIFIER 2001A Price complete 40 Gns.

Amplifier 2001	TECHNICAL SPECIFICATION
Power Output ...	25 watts (max. continuous). 15 c/s to 30 kc/s
Damping Factor ...	Adjustable from 20 to infinity.
Frequency Response ...	Flat from 2 c/s. to 100 kc/s.
Negative Feedback ...	28 dB.
Sensitivity ...	0.5 volts for 25 watts output.
Tubes ...	2KT66 (Osram), or 6L6G (American), 1ECC83(Mullard) or 12AX7 (American), 1ECC81 (Mullard), or 12AT7 (American), 1GZ32 (Mullard), 5V4 or (American).
Dimensions & Weights	13" x 10" x 7". 29 lbs.
Pre-Amplifier 2001A	
Power Required ...	6.3 V. 1.3 A. and 450 V. 4.0 mA (derived from 2001).
Sensitivity ...	From 3 to 120 millivolt (depending on input facility used) for 0.5 volt output.
Noise and Hum ...	Approximately 60 dB below 0.5 volt.
Tubes ...	2 ECC40 (Mullard).
Controls...	(a) Selector (6 positions): Radio with pre-set level control. Tape with pre-set level control. Pick-up with compensation for most record characteristics and pre-set level control. Microphone. (b) Bass continuously variable from - 14 dB to + 13 dB at 40 c/s. (c) Treble continuously variable from - 15 dB to + 12 dB at 10 kc/s. (d) Treble Filter (4 positions) 4 kc/s., 7 kc/s., 12 kc/s. and OUT (no cut-off). (e) Graded Volume Control combined with ON/OFF switch (in parallel with switch on 2001).
Dimensions & Weights	10½" x 4" x 4" (approx.). 4½ lbs.

PUSH-BUTTON PRE-AMPLIFIER

MODEL 1002B Price 24 Gns. (Accepted by Council of Industrial Design for "Design Index.")

	TECHNICAL SPECIFICATION																		
Power Requirements	6.3V., 1.1A. and 450 V. 4.5 mA.																		
Sensitivity ...	Mic 3-5V. for Records 8-12V. } 0.5 Volt* Radio/Tape 80 mV. } output.																		
	*This will drive the Pamphonic Type 2001 Power Amplifier to 25 watts output.																		
Maximum Output ...	1 Volt.																		
Noise and Hum ...	Approximately 60dB on 0.5 Volt output.																		
Valves...	1—EF86 (Mullard) 6267 (American). 2—ECC81 (Mullard) 12AT7 (American).																		
Controls ...	(a) Input selector push buttons (Nine positions) :- <table style="margin-left: 20px;"> <tr> <td style="border-right: 1px solid black; padding-right: 5px;">Magnetic pick-up with compensation for :-</td> <td style="padding-left: 5px;">1. Microphone.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">2. Original A.E.S.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">3. R.I.A.A.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">4. N.A.B.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">5. Original f.f.r.r./L.P.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">6. Original E.M.I. and U.S. Columbia.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">7. European 78.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">8. Radio.</td> </tr> <tr> <td style="border-right: 1px solid black; padding-right: 5px;"></td> <td style="padding-left: 5px;">9. Tape.</td> </tr> </table>	Magnetic pick-up with compensation for :-	1. Microphone.		2. Original A.E.S.		3. R.I.A.A.		4. N.A.B.		5. Original f.f.r.r./L.P.		6. Original E.M.I. and U.S. Columbia.		7. European 78.		8. Radio.		9. Tape.
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	(b) Cut-off Filter (4 positions) 4Kc/s, 7Kc/s, 12Kc/s and OUT (No cut-off).																		
	(c) Graded Volume Control combined with ON/OFF Switch.																		
	(d) Bass continuously variable from - 15dB to + 15dB at 50 c/s.																		
	(e) Treble continuously variable from - 15dB to + 15dB at 10Kc/s.																		
Panel Cut-out Size.	10½" x 4½"																		
Overall Depth	7½"																		

PAMPHONIC REPRODUCERS LTD
17 Stratton Street, London, W.1. Telephone GROsvenor 1926

Pamphonic

HIGH FIDELITY EQUIPMENT

INTEGRATED AUDIO AMPLIFIER

The Type 1004 amplifier is expressly designed for home use and it is capable of providing the highest quality reproduction of speech and music.

The selector switch gives a choice of three correction characteristics which between them cover the majority of recording characteristics.

Separate Bass and Treble controls giving a range of ± 15 db, and in addition a contour control for low level reproduction of large signals in accordance with the Fletcher-Munson loudness curves.

All the input connections are taken to screened sockets and supplies for a Radio Tuner and gramophone motor are provided.

The output of the amplifier is brought to a socket at the back providing both $3\frac{1}{2}$ -ohm and 15-ohm loudspeaker matching connections. There is also an auxiliary output at medium level and independent of the volume control. This can be used for monitoring purposes or for feeding a tape recorder.



AMPLIFIER TYPE 1004 Price 25 Gns.

Provision is made for a plug-in pick-up attenuator permitting the use of all types of high output pick-ups in addition to the magnetic and moving coil patterns. Attenuators will be available to suit all makes of pick-up.

A rumble filter is automatically switched into circuit in the gram. P.U. positions.

TECHNICAL SPECIFICATIONS

Bass control	Continuously variable from - 16 dB to + 15 dB at 50 c/s.	Output Matching Impedance	3-5 and 15 ohms.
Treble control	Continuously variable from - 16 dB to + 16 dB at 10 Kc/s.	Frequency Response (Controls at "Level") ...	Substantially flat from 20 c/s. to 50 Kc/s.
Volume control	Graded with mains on/off switch.	Distortion	0.5% at 1 Kc/s at 10 watts.
Contour control	Continuously variable.	Hum & Noise { Mic.	- 53 dB.
Mains voltage	100-150 V, 200-250 V-, 50/60 c/s.	{ Pick-up	- 54 dB.
Mains consumption	70 V.A.	{ Radio/Tape	- 65 dB.
Auxiliary Supplies available for Tuner, etc.	6.3V. 2A.	Negative Feedback	20 dB.
Valves	+ 300 V., 20 MA. D.C.	Inputs	1. Mic. Sensitivity 2.5 MV.
H.T. Rectifier	2 x 6 BW6 (Brimar), 2 x ECC. 83 (Mullard), 1 - EF86 (Mullard).		2. Tape } Sensitivity
Pick-up Attenuator	Suitable for		3. Radio } 100 MV.
Type:—A	Collaro Studio P, Acos HGP-20.	Input Selector Switch	4. Pick-up Sensitivity 12-15 MV.
B	Decca XMS-C.		1. Mic.
C	Decca XMS-D.		2. Tape.
D	Leak (including transformer).		3. Radio.
E	Tannoy.		4. Pick-up N.A.R.T.B. Correction.
F	Goldring No. 500 Var. Reluctance.		5. Pick-up B.S.S. Fine.
H	Pickering 220-240-260.		6. Pick-up B.S.S. Coarse.
J	Ortofon (with No. 384 Transformer).	Dimensions & Weights	Positions 4, 5 and 6 are intended for use with pick-ups having a velocity characteristic. $13\frac{1}{2} \times 10 \times 4\frac{1}{2}$ " 14 $\frac{1}{2}$ lbs.
Power output	10 watts.		

TECHNICAL SPECIFICATIONS

Senior Model

Power handling capacity	In excess of 15 watts (music).
Impedance	15 ohms.
Bass unit	15" dia., permanent magnet, flux density 16,000 lines/sq. cm. Mounted in vented chamber providing adequate loading to lowest frequencies encountered in music. Will handle more than 15 watts of 35 cycle steady tone without distortion.
Treble unit	Special elliptical design incorporating aluminium voice-coil and voice-coil former, which permits unusually good transient response. Mounting of the unit eliminates beaming effects and provides wide-angle diffusion of high frequencies.
Finish	African Mahogany or Walnut veneer Grey and gold fabric grille.
Overall dimensions	44 $\frac{1}{2}$ " high, 24 $\frac{1}{2}$ " wide, 18 $\frac{1}{2}$ " deep.
Weight	132 lbs.

Junior Model

This model varies slightly from the Senior as detailed below :

Power handling capacity	In excess of 10 watts (music).
Bass unit	12" dia., permanent magnet, flux density 12,000 lines/sq. cm.
Overall dimensions	38" high, 22 $\frac{1}{2}$ " wide, 13 $\frac{1}{2}$ " deep.
Weight	78 lbs. approx.

VICTOR LOUDSPEAKERS

Faithful reproduction below 30 c/s—above 20,000 c/s. Expressly designed and constructed to achieve the most nearly perfect tonal balance and realism regardless of cost. Great care and attention is given to the rigid cabinet construction which vitally affects the quality of sound reproduction. The electro-mechanical units and enclosure were designed exclusively for each other; you will appreciate the results—very clearly! The rear wall of your room acts as a reflector and diffuser. The unusual reflex design employs a tuned vertical chamber which produces a smoother bass response, even at the extreme bass frequencies. A control is included which compensates for acoustical differences in various rooms. Be assured that the Victor will match the acoustics of your room.



VICTOR SENIOR

Price £45

VICTOR JUNIOR

Price £30

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