



# MUSTANG COMMUNICATIONS LTD

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## MAESTRO AMPLIFIER RANGE

The Maestro range of amplification comprises four highly specified units whose general design concept has been to provide a cost effective solution to the requirements of smaller paging, church reinforcement, school, audio-visual and background music systems which may need powers of between 10 and 125 Watts. All units are cased in co-ordinated matt black livery, which blends well into both modern and traditional environments.

Compact and versatile, the Maestro amplifier range has been carefully developed after considerable research into the features most needed by installer and operator alike. The tape interface, for example, simplifies connection to a tape recorder/player, and there is a similar facility to interconnect with the matching DL500 induction loop driver amplifier.



As with other Mustang products, the reliability of these units has not been compromised - all circuitry being time proven and of robust mechanical and electronic design to ensure that the Maestro range may be specified with confidence.

## MAIN FEATURES

- Robust construction including steel case with tough paint finish
- Internal construction designed for easy access for servicing
- Convection cooled for reliability
- Supplied with all input and output connectors.
- Blanking plugs for removable control knobs to prevent unauthorised adjustments
- Customised panel printing for bulk purchase
- Colour co-ordinated easy to use control knobs with high visibility pointer lines and clear printing
- Simple access to internal adjustments and settings
- Intentionally designed for high electronic and mechanical reliability
- Optional 2U rack mount bracket kit BRK-20 includes specially designed pull handles (30-60-125)
- Attenuator pads on each microphone channel for high output microphones (60-125)
- Chime level adjustment (60-125)
- Silent start, silent stop (60-125)
- Full status display (60-125)
- Easy interconnection with Mustang DL series induction loop amplifier using optional extra CC.1 lead (30-60-125)
- Choice of recording take off point - pre-tone controls, post tone controls, or post master gain (60-125)
- Output terminal block takes stranded wires up to 2.5mm<sup>2</sup> (60-125)
- Runs 24V remote restoration volume controls (60-125) directly
- Pluggable 2 Metre IEC power cordset

# MAESTRO AMPLIFIER RANGE

## TECHNICAL SPECIFICATION

DATA SHEET DS40-02

	Maestro 10	Maestro 30	Maestro 60	Maestro 125
Output power	10 Watts RMS	30 Watts RMS	60 Watts RMS	125 Watts RMS
Output matching	4 ohms, 70V, 100V	4 ohms, 100V, 70V, 50V	4 ohms, 100V (with centre tap), 70V, 50V	
Input 1	500uV Balanced microphone	500uV Balanced microphone 1.5mV with 10dB attenuator pad enabled		
Input 2	500uV Universal balanced microphone 775mV balanced line	500uV Universal balanced microphone or 1.5mV with 10dB attenuator pad enabled 775mV balanced line	500uV Universal balanced microphone 1.5mV with 10dB attenuator pad enabled 775mV balanced line	
Input 3	Unbalanced 75mV line Internal stereo combiner	500uV Universal balanced microphone or 1.5mV with 10dB attenuator pad enabled 775mV balanced line		
Input 4	-	Unbalanced 75mV line Phono RIAA Internal stereo combiner	500uV Universal balanced microphone 1.5mV with 10dB attenuator pad enabled 775mV balanced line	
Input 5	-	-	500uV Universal balanced microphone 1.5mV with 10dB attenuator pad enabled 775mV balanced line	
Input 6	-	-	Unbalanced 75mV line/phono RIAA Phono RIAA Internal stereo combiner	
Microphone compatibility	Universal inputs suit conventional 200-600 ohm (low impedance) dynamic balanced microphones, unbalanced low impedance dynamic microphones, and phantom powered balanced microphones			
Mic. input headroom	30dB	26dB		
Tape playback	-	Via tape socket and input 4 control	Via tape socket and input 6 control	
Tape record	-	via tape socket	via tape socket	
Chime (optional use)	-	-	Inputs 1 & 2	
Phantom +12V DC	-	Inputs 1-2-3	Inputs 1-2-3-4-5	
		May be collectively disabled if required, by internal jumper link		
Priority (optional use)	Input 1	Input 1	Inputs 1-2	
Treble & Bass control	± 12dB @ 100Hz and 10kHz			
Bass cut (optional use)	Input 1	Input 1	Inputs 1-2	
	-3dB per octave below 200Hz			
Power frequency response ref 1kHz	-3dB @ 30Hz & 15kHz	-3dB @ 30Hz and 17kHz	-3dB @ 30Hz and 20kHz	
Priority current sink	-	-	Inputs 1-2 (common) Sinks 250mA absolute max. 40V source max	
Protected output	✓	✓	Overload, overvoltage, thermal, offset	
Concealable controls	✓	✓	✓	
Rack mountable 2U	-	✓ (use BRK-20 optional kit)		
Indicators	-	Peak LED	VU bargraph; status display - power, normal, peak, thermal, fault	
Auxiliary 24V DC output	-	-	Stabilised 24V DC, automatically current limited to 150mA	
User controls	Individual input gain controls, treble, bass, master gain, power on-off			
Power supply	220/240V 40-60Hz			
Consumption	10VA - 60-VA	10VA - 70VA	30VA - 125VA	30VA - 250VA
Case dimensions	300 x 89 x 245 mm	432 x 89 x 245 mm	432 x 89 x 329 mm	
- W x H x D	Add 20mm for front controls, 30mm for rear heatsink, 4mm for case feet			
Unit Weight (net)	5kg	7kg	9.5kg	11kg
Shipping (gross)	6kg .04Cu.M	8.5kg .04Cu.M	11kg .04cu.M	12.5kg .04cu.M

### QUALITY ASSURANCE

Guided by a policy of non-obsolence, every part for the Maestro range of amplification is carefully manufactured direct from raw materials to ensure total control of all aspects of quality and delivery. Every sub-assembly and finished amplifier is exhaustively and individually tested.

All procedures meet our internal Quality Assurance standards, which in turn are maintained to ISO.9002.

### CONTACT

We will be pleased to receive enquiries regarding application of the Maestro range, either by phone, fax, or email.

*In the interests of continuous development, specifications are subject to change without notice.*

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Electromagnetic compatibility (EMC) directive 89/336/EEC and amendment directive 92/31/EEC

This equipment has been designed and manufactured to the highest standards. If connected and operated as set out in this manual, there should be no Electromagnetic Compatibility problems. If any aspect of operation gives rise to concern, then please contact the manufacturer for advice.