rm6 – Technical Details

The microphone amplifier and equaliser are taken from the Raindirk Audio professional range of recording consoles. All controls are very functional and responsive with overlapping frequency ranges to provide comprehensive signal manipulation. The rm6 is a full wide band unit with absolute minimum of colouration and phase changes and wide frequency response and high noise margins. 5 band equaliser modules each include a microphone input section and a signal level meter The rack unit is powered by an external power supply. Individual channel connectors use both jacks and XLRs.

INPUT Low noise microphone amplifier with a gain range of 10 to 70dB
Wide frequency response -1dB at gain 30dB, 8Hz to 70KHz,
-1dB at gain 70dB 15Hz to 70KHz
Low CMRR and distortion . @ gain 30dB CMRR >70dB 50Hz to 20KHz
Input, electronically balanced, impedance 3.3Kohms.
Line level input via high impedance input attenuator, input impedance 30Kohm.
Input noise level -132dB at a gain 70dB, R_s 50 ohms B/W 20Hz to 20KHz, EQ out.

PHASE CHANGE SWITCH Using dedicated amplifier.

INSERTION POINT Ground sensing balance output and conventional balanced return at signal level, post microphone input, may be used as a clean feed output.

EQUALISER
High frequency control — Shelving response
Variable frequency range 1K to 16KH.z Gain range +/- 15dB.
2 mid frequency sections — Full parametric with control of frequency and b/width.
Frequency range Mid 1 400Hz to 16KHz
Frequency range Mid 2 25Hz to 1.6KHz
Band width 0.5 to 5 Gain range +/- 15dB
Low frequency control — Shelving or peak & trough response.
Frequency range 30 to 360 Hz Gain range +/- 15dB

EQ BYPASS SWITCH

HIGH PASS FILTER
Outside main equaliser with its own in/out switch.
Use for effect or eliminate low frequency rumble.
Attenuation slope -12dB per octave.
Frequency range 25 to 360 HZ.

SIGNAL LEVEL METER A 10 led column with a signal range of -12 to +15 dB ref. 0dBV.
The meter point may be internally selected post mic. amp. or post EQ.

MUTE SWITCH Extremely high mute factor

OUTPUT Electronically balanced, 60dB at 50 Hz and 10KHz R_o 50 ohms

CONNECTIONS Final inputs and outputs via XLR connectors with regular ¼ inch stereo jacks in parallel. Insertion point, post microphone amplifier using 2 x regular ¼ inch jacks.