



VOICE ALARM VIGIL ECLIPSE2M

VIGIL Eclipse2M



VIGIL ECLIPSE2M is a wall-mountable, voice evacuation/public address system. The unit houses one BVRD2M4 DSP-controlled router, power supply and your choice of amplifier. Fully networkable, ECLIPSE2M provides the solution for many applications.

FEATURES:

- Stand-alone system, complete with battery backup, in one housing (IP30 rated).
- Choice of amplifiers:
 - BV120D dual 120 Watt - enabling one dual circuit zone (or two, single circuit, zones).
 - BV050Q quad 50 Watt - enabling two zones with dual circuits (or four, single-circuit, zones; or three with reserve).
- Up to 126 units can be networked. (Digital networking facilities provided by BVRDNET2M4, factory fit option - please refer to separate leaflet.)
- Ideal for decentralised networking or tenant systems.
- Four electronically balanced inputs. Input one is configurable with 'all call' processor bypass and is normally used for the fire microphone in voice alarm systems. All inputs have both independent priority and level settings, allowing for dual mode; emergency and normal page.
- Up to fifteen priority levels are available. If two concurrent routes are set at the same priority they will be treated on a 'first come first served' basis. Priorities are changeable.
- Three band parametric plus bass and treble equalisation on all inputs (with limiter/compressor), enhancing the intelligibility of the system.
- Four audio electronically balanced (OdBM) outputs with ten band parametric equalisation and audio delay of up to one second.
- Fully monitored surveillance at either 30Hz or 20kHz (faults are recorded in the history log).
- Built-in realtime clock enables detailed logging and reporting, including detected faults. Indicates time, date, month and year. Also used for night time volume reduction, timed message trigger and to control external inputs. The history log can be accessed via the USB2 port on the front panel.
- Up to six flash stored (57 second) messages (four supplied as standard) with independent level, surveillance and timing. Settings and messages are changeable (password protected) via the USB2 port.
- 'All call' failsafe emergency evacuate message embedded in main processor in the event of DSP failure.
- Nine selectable chimes / pre-announcement tones of up to eight seconds in length.
- Message synchronisation, even on a decentralised system.
- Ambient noise sensing (using optional ambient noise sensing microphones).
- Two RS485 ports for networking, microphones, etc.
- Four opto-coupled sounder circuit programmable inputs from the fire detection system.
- Eight surveillance inputs for monitoring 100V loudspeaker lines (using BEL1 modules).

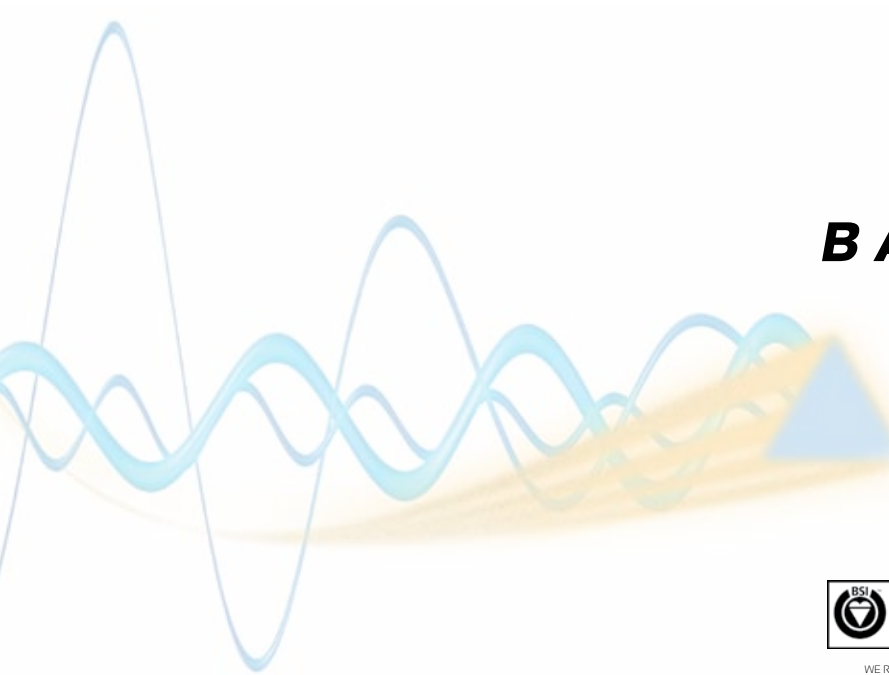
ECLIPSE2M SPECIFICATION:

Audio input and output processing using DSP analogue devices ADSP2116 operating at 100MHz.

AUDIO INPUTS	
Input sensitivity	80mV (-20dB) to 3V (+12dB)
Frequency response	-3 dB @ 30Hz and 20kHz
Signal to noise ratio	Better than 70dB
Three band parametric equalisation	
Frequency	50Hz, 63Hz 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz
Bandwidth	0.05oct, 0.1oct, 0.2oct, 0.33oct, 0.5oct, 0.66oct, 1oct & 2oct
Lift and cut	± 12dB in 1dB steps
Low filter	
Frequency	250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.2kHz, 1.6kHz, 2kHz, 2.5kHz
Slope	3dB/oct & 6dB/oct
Lift and cut	± 12dB in 1dB steps
High filter	
Frequency	500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz
Lift and cut	± 12dB in 1dB steps
High pass filter	
Frequency	100Hz, 150Hz, 200Hz, 250Hz, 300Hz
Slope	18dB/oct, 12dB/oct, 6dB/oct
Compressor	
Ratio	1.4:1, 2:1, 4:1, 8:1 & limiter
Attack	0-99mS
Release	0-999mS
Messages flash PROM	
Storage medium flash PROM (non-volatile) 57 seconds	
Frequency response	-3dB @ 50Hz & 18kHz
Signal to noise ratio	Better than 65dB

AUDIO OUTPUTS	
Nominal output level	0.775V (0dB)
Max output level	1.5V (+6dBm) @ 400 ohms source = 400 ohms
Frequency response	-3dB @ 30Hz & 20kHz
Output to noise ratio	Better than -85dB
Ten band parametric equalisation	
Frequency	50Hz, 63Hz 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz
Bandwidth	0.05oct, 0.1oct, 0.2oct, 0.33oct, 0.5oct, 0.66oct, 1oct & 2oct
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Lift and cut	± 12dB in 1dB steps
Audio delay	
Selectable from 0 to 1 second	
POWER	
230V AC 700V/A	
VIGIL ECLIPSE2M requires a direct non-switchable power supply. Preferably via a class D circuit breaker.	
DIMENSIONS	
475mm W x 777mm H x 130mm D	

NB: Amplifier, power supply, batteries & BELs need to be ordered separately.



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