

Eclipse4

Certified to BSEN54



Inside the box
Up to four
VIGIL3 amplifiers

The VIGIL Eclipse4 is a stand-alone voice evacuation / public address system. A complete, fully monitored system which takes less floor space and is ideal for fitting into building risers or places where space is restricted.

Modular and fully networkable, the VIGIL Eclipse4 provides the solution for any site.

VIGIL Eclipse4

FEATURES:

- A fully integrated voice evacuation system, the Eclipse4 takes up minimal floor space and is secured by bolting to a wall or suitable solid upright.
- The Eclipse4 is ideal for fitting within the risers of towers and other similar style buildings or small spaces.
- The system will continue to function in the event of a mains power failure (24 hours quiescent and 30 minutes full use). For some systems a bolt on battery enclosure is required to house additional batteries.
- Units not requiring the additional battery enclosure can be wall mounted.
- Modular system with a choice of amplification using the BVRD2M4 router and VIGIL3 transformerless amplifiers.
- Fully networkable (up to 126 units), Eclipse4 is suitable for small and also very large systems.
- An optional BVRDIP module is available for remote monitoring facilities and email notification of faults.
- Message synchronisation - even on decentralised systems - with the ability to store up to six monitored messages.
- Fully monitored surveillance at either 30Hz or 20kHz.
- The Eclipse4 has four electronically balanced inputs:
 - Input one is configurable with 'all call' processor bypass.
 - Independent priority and level settings.
 - Three band parametric equalisation plus bass and treble control (with limiter/compressor), enhancing the intelligibility.

- Electronically balanced (OdBm) with ten band parametric equalisation and audio delay of up to one second.
- Four opto-coupled sounder circuit programmable inputs from the fire detection system.
- Options include ambient noise sensing facility using noise sensing microphones and an 'all call' fire microphone which can be fitted on the front panel.
- Networking is via copper, multi mode fibre, single mode fibre or any combination of these.
- Eclipse4 supports all Baldwin Boxall microphone and touchscreen control options.
- Compatible with any VIGIL2 installation.

AMPLIFICATION OPTIONS:

- The Eclipse4 can house up to four VIGIL3 amplifiers (depending on system requirements, maximum of four dual outputs or three single with one reserve amplifier):
 - BVO75D (Dual 75 Watt module)
 - BVO75Q (Quad 75 Watt module)
 - BV150D (Dual 150 Watt module)
 - BV150Q (Quad 150 Watt module)
 - BV300D (Dual 300 Watt module)
- The transformerless amplifiers have an integral power supply, weigh less and have increased power output.

VIGIL3 CHARGER MODULE:

- Only one module is required per Eclipse4.
- Continually monitors/charges batteries.
- Continually monitors amplifier power supplies.

VOICE EVACUATION
PUBLIC ADDRESS



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Specifications:

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
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

AUDIO OUTPUTS	
Nominal output level	0.775V (0dB)
Max output level	1.5V (+6 dB) @ 400 ohms source = 400 ohms
Frequency response	-3 dB @ 30Hz & 20 kHz
Output to noise ratio	Better than -85 dB(A)
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
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
Audio delay	
Audio delay	Selectable from 0 to 1 second
POWER	
POWER	230V -15%/+10% 13A max with full amplifier option
DIMENSIONS (W x H x D) mm	
Finish	RAL 9005
VIGIL Eclipse4 requires a direct non-switchable power supply. Preferably via a class D circuit breaker.	

NB: Amplifiers, networking, batteries & BELs need to be ordered separately.

	BV300D	BV150D	BV150Q	BV75D	BV75Q
Amplifiers in unit	2 x 300W	2 x 150W	4 x 150W	2 x 75W	4 x 75W
1 kHz rated output power, <0.2% THD	300W @ 33.3 Ohms	150W @ 66.6 Ohms		75W @ 132 Ohms	
Output regulation	Better than 0.5dB	Better than 0.3dB		Better than 0.2dB	
Output voltage obtainable	100V only				
Frequency response (-3dB)	35Hz to 20kHz				



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