

See the HAL Installation Manual for all RAD instructions and warranty information.

The HAL Installation and Design Manuals, data sheets with specifications, Halogen software and help files, graphics and CAD files, and system applications are available at rane.com/hal.

FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by Rane Corporation could void the user's authority to operate the equipment.

CAN ICES-3 (B)/NMB-3(B)

Shielded CAT5e or better cables are required in order to comply with the FCC Rules part 15 limits for a Class B digital device.

WARNING: This product may contain chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

21481



Recycle cardboard and paper.



Cartons et papier à recycler.



EU Declaration of Conformity

Product Models: RAD1, RAD2, RAD3, RAD4, RAD5, RAD6, RAD7, RAD8, RAD9, RAD11, RAD12, RAD14, RAD15, RAD18, RAD23

Serial Numbers: 900000 – 999999

Product Type: Professional Audio Signal Processing

Manufacturer: Rane Corporation

Address: 10802 47th Avenue West, Mukilteo WA 98275-5000 USA

This declaration is issued under the sole responsibility of Rane Corporation.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/30/EU	The Electromagnetic Compatibility Directive
2012/19/EU	The Waste Electrical and Electronic Equipment Directive
2011/65/EU	The Restriction of Hazardous Substances Directive

References to the relevant harmonised standards used in relation to which conformity is declared:

EN55103-1:2009/AM1:2012	Compatibility of professional electronic A/V apparatus emissions.
EN55103-2:2009	Compatibility of professional electronic A/V apparatus immunity.
EN50581:2012	Technical documentation for RoHS assessment of electronic products.

Additional Information:

Environment E2
CE mark first affixed in 2009

In order for the customer to maintain compliance with these regulations, high quality shielded cable must be used for interconnection to other equipment. No changes or modification of the equipment, other than that expressly outlined by the manufacturer, are allowed. The user of this equipment shall accept full responsibility for compliance with Union harmonisation legislation in the event that the equipment is modified without written consent of the manufacturer.

EN55103-2 Immunity Results:	THD+N: 4 dBu, 400 Hz, BW 20 Hz - 20 kHz	
<i>Test Description</i>	<i>Measurement</i>	<i>Conditions</i>
RF Electromagnetic Fields Immunity		
80 MHz - 1000 MHz, 1 kHz AM, 80% depth, 3V/m	<-62 dB	80 MHz - 174 MHz
	<-50 dB	174 MHz - 208 MHz
	<-43 dB	208 MHz - 272 MHz
	<-58 dB	272 MHz - 1000 MHz
Conducted RF Disturbances Immunity		
150 kHz - 80 MHz, 1 kHz AM, 80% depth, 3V rms	<-64 dB	150 kHz - 4 MHz
	<-53 dB	4 MHz - 4.3 MHz
	<-64 dB	4.3 MHz - 10.5 MHz
	<-48 dB	10.5 MHz - 24.3 MHz
	<-64 dB	24.3 MHz - 80 MHz
Magnetic Fields Immunity		
50 Hz - 10 kHz, 3.0 - 0.3 A/m	<-66 dB	
Common Mode Immunity (Signal Ports)		Bandpass re: 4 dBu, 1/3-octave
50 Hz - 10 kHz, -20 dBu	<-22 dB	
Common Mode Immunity (Data Ports)		
50 Hz - 10 kHz, -20 dBu	<-73 dB	

Signed for and on behalf of: Rane Corporation

Place of issue: Mukilteo WA USA Date of issue: March 11, 2009

Name: Greg Frederick Function: Compliance Engineer

Signature:

