



# Acoustic Test Report



## KL Core IP

# Test conditions

Test carried out according to ISO 3744:2010(E)

## Device tested

Brand: Elation  
Model: KL Core IP  
Serial #: \_\_\_\_\_  
Software version: \_\_\_\_\_

## Environment

Temperature: 20.7 °C / 69.2 °F  
Humidity: 35%  
Warm-up Time (mins): 15  
Ambient Noise Level: 25

## Fixture placement:

Fixture was placed at least one meter from walls and ceiling, as described in the Standard ISO 3744:2010(E)  
Using a spheric setup with a total of four (4) microphones.

## Instrumentation

### Instruments used

	Equipment	Make	Type
	Acoustic Analyser	NTI	XL2
	Audio Switch	Kramer	VS-4X
Measurement Microphones	Mic 01	NTI	M4261
	Mic 02	NTI	M4261
	Mic 03	NTI	M4261
	Mic 04	NTI	M4261
	Mic 05	NTI	M2230

## Setup

The product was placed in a semi-anechoic chamber (See figure 1). The ceiling, floor and walls were all acoustically absorbent. The main dimensions of the room were 4.15 m x 3.60 m x 3.30 m (Length x Width x Height)



**FIGURE 01: TEST SETUP**

The product was allowed a minimum of 15 minutes of warm-up time before measurements were performed.

## Measurement method

Measurements were carried out using a setup with 4 microphones. The microphones were in turn moved to the measurement positions described below.

Measurement setup:

Microphone 01 is setup 1 meter horizontal from the left (base) of unit

Microphone 02 is setup 1 meter horizontal from the back (base) of unit

Microphone 03 is setup 1 meter horizontal from the right (base) of unit

Microphone 04 is setup 1 meter horizontal from the front (base) of unit

Mic 5 is set up for continuous background noise measurement

Ambient Noise Level: Microphone 5 25	Fan Control Auto		Fan Control High		Fan Control Low		Fan Control Studio		Fan Control Mute	
	dB(A) @ 1 M		dB(A) @ 1 M		dB(A) @ 1 M		dB(A) @ 1 M		dB(A) @ 1 M	
	LAqe	MAX	LAqe	MAX	LAqe	MAX	LAqe	MAX	LAqe	MAX
Microphone 01	27.1	29.2	30.1	31.3	24.1	27.6				
Microphone 02	27.1	29.2	29.5	30.8	23.9	27.5				
Microphone 03	28.8	30.3	30.4	31.5	24.1	27.6				
Microphone 04	28.9	30.4	30.5	31.6	25.7	28.4				
Avg Mics 1-4	27.9	29.7	30.1	31.3	24.4	27.7				

## Results: