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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/javazoom/jl/decoder/DecoderException.html)   [**NEXT CLASS**](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) | [**FRAMES**](http://docs.google.com/index.html?javazoom/jl/decoder/Equalizer.html)    [**NO FRAMES**](http://docs.google.com/Equalizer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: [NESTED](#3znysh7) | [FIELD](#2et92p0) | [CONSTR](#tyjcwt) | [METHOD](#3dy6vkm) | DETAIL: [FIELD](#4d34og8) | [CONSTR](#3rdcrjn) | [METHOD](#1ksv4uv) |

## **javazoom.jl.decoder**

Class Equalizer

java.lang.Object  
 **javazoom.jl.decoder.Equalizer**

public final class **Equalizer**extends java.lang.Object

The Equalizer class can be used to specify equalization settings for the MPEG audio decoder.

The equalizer consists of 32 band-pass filters. Each band of the equalizer can take on a fractional value between -1.0 and +1.0. At -1.0, the input signal is attenuated by 6dB, at +1.0 the signal is amplified by 6dB.

**See Also:**[Decoder](http://docs.google.com/javazoom/jl/decoder/Decoder.html)

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| **Nested Class Summary** | |
| static class | [**Equalizer.EQFunction**](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) |

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| **Field Summary** | |
| static float | [**BAND\_NOT\_PRESENT**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#BAND_NOT_PRESENT)            Equalizer setting to denote that a given band will not be present in the output signal. |
| static [Equalizer](http://docs.google.com/javazoom/jl/decoder/Equalizer.html) | [**PASS\_THRU\_EQ**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#PASS_THRU_EQ) |

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| **Constructor Summary** | |
| [**Equalizer**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#Equalizer())()            Creates a new Equalizer instance. |
| [**Equalizer**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#Equalizer(javazoom.jl.decoder.Equalizer.EQFunction))([Equalizer.EQFunction](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) eq) |
| [**Equalizer**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#Equalizer(float%5B%5D))(float[] settings) |

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| **Method Summary** | |
| float | [**getBand**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#getBand(int))(int band)            Retrieves the eq setting for a given band. |
| int | [**getBandCount**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#getBandCount())()            Retrieves the number of bands present in this equalizer. |
| void | [**reset**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#reset())()            Sets all bands to 0.0 |
| float | [**setBand**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#setBand(int,%20float))(int band, float neweq) |
| void | [**setFrom**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#setFrom(javazoom.jl.decoder.Equalizer.EQFunction))([Equalizer.EQFunction](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) eq) |
| void | [**setFrom**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#setFrom(javazoom.jl.decoder.Equalizer))([Equalizer](http://docs.google.com/javazoom/jl/decoder/Equalizer.html) eq)            Sets the bands of this equalizer to the value the bands of another equalizer. |
| void | [**setFrom**](http://docs.google.com/javazoom/jl/decoder/Equalizer.html#setFrom(float%5B%5D))(float[] eq) |

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| **Methods inherited from class java.lang.Object** |
| clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait |

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| **Field Detail** |

### BAND\_NOT\_PRESENT

public static final float **BAND\_NOT\_PRESENT**

Equalizer setting to denote that a given band will not be present in the output signal.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javazoom.jl.decoder.Equalizer.BAND_NOT_PRESENT)

### PASS\_THRU\_EQ

public static final [Equalizer](http://docs.google.com/javazoom/jl/decoder/Equalizer.html) **PASS\_THRU\_EQ**

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| **Constructor Detail** |

### Equalizer

public **Equalizer**()

Creates a new Equalizer instance.

### Equalizer

public **Equalizer**(float[] settings)

### Equalizer

public **Equalizer**([Equalizer.EQFunction](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) eq)

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| **Method Detail** |

### setFrom

public void **setFrom**(float[] eq)

### setFrom

public void **setFrom**([Equalizer.EQFunction](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) eq)

### setFrom

public void **setFrom**([Equalizer](http://docs.google.com/javazoom/jl/decoder/Equalizer.html) eq)

Sets the bands of this equalizer to the value the bands of another equalizer. Bands that are not present in both equalizers are ignored.

### reset

public void **reset**()

Sets all bands to 0.0

### getBandCount

public int **getBandCount**()

Retrieves the number of bands present in this equalizer.

### setBand

public float **setBand**(int band,  
 float neweq)

### getBand

public float **getBand**(int band)

Retrieves the eq setting for a given band.

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-all.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/javazoom/jl/decoder/DecoderException.html)   [**NEXT CLASS**](http://docs.google.com/javazoom/jl/decoder/Equalizer.EQFunction.html) | [**FRAMES**](http://docs.google.com/index.html?javazoom/jl/decoder/Equalizer.html)    [**NO FRAMES**](http://docs.google.com/Equalizer.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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