

# AUDIOCAST USER MANUAL

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**bitonlive**

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# Audiocast

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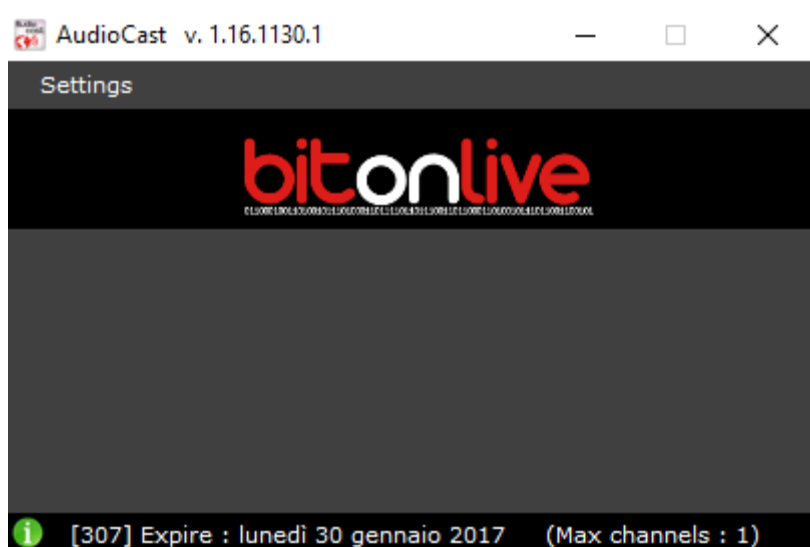
**Audiocast** is the encoder of **BitOnLive** that, in addition to managing streams for streaming, allows you to manage the monitoring of the output and recording the stream of broadcast, and resending the signal through IP addresses.

## Summary

- Overview .....2
- Monitor .....2
- Layout.....3
- General .....4
- Input .....4
  - Type Udp .....4
  - Type Audio Device .....5
  - Type URL.....5
- Output .....6
  - Audio Device.....6
  - Streaming .....6
  - File .....8
  - Repeater .....9
- Commands.....9
- Audio Processor.....10
  - External .....10
  - Internal .....10
- Maintenance .....11
- Additional Info .....11

## Overview

Through the main screen, you can monitor the flow of input of the encoder with the waveform and the meter

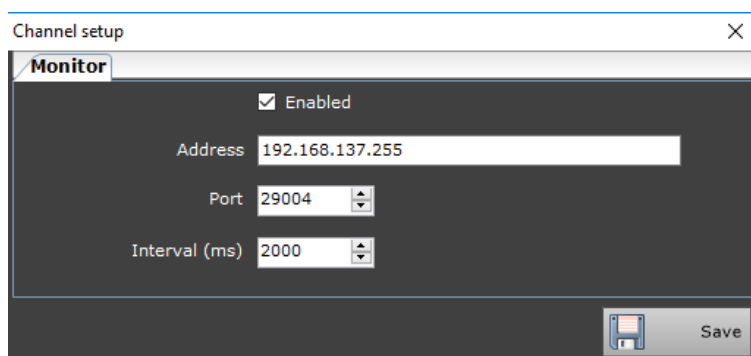


By clicking on **Setting->General** you can enable or disable the monitor function.

By clicking on **Settings->Channel** you can add or remove channels to encode.

Through the key opens the screen to the configuration of the channel.

## Monitor

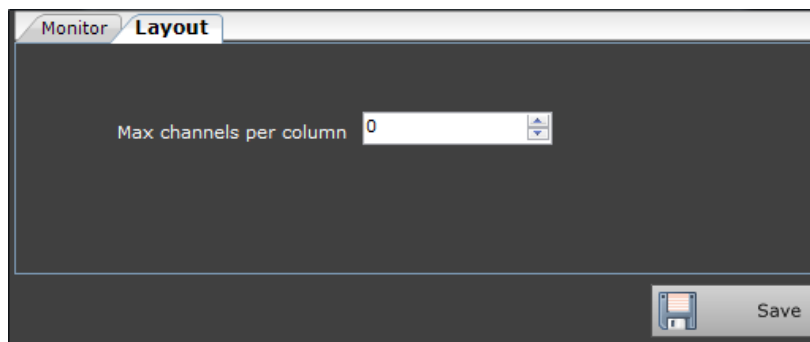


**Enabled:** Enable or disable the monitoring system

**Address:** IP address of the machine to monitor

**Port:** communication port of the machine to monitor

**Interval (ms):** time interval in milliseconds for the control of the operation of **Audiocast**



**Max channel for column:** it is possible to indicate in the case of Multichannel license the maximum number of channels to be inserted in the columns in order to be able to customize the display.

## General

Through this window, you configure the general settings of the channel encoding.

**Enabled:** Enable or disable the channel

**Channel name:** the name of the channel displayed on **Audiocast**

**Show waveform:** enables the display of the waveform in the main screen

**Show meter:** enables viewing of the meter in the main screen

**Monitor label:** Label to be sent to the monitor to indicate the lack of audio

## Input

In the **Input tab** to set the input signal of **Audiocast**. It is possible to enable input of the individual channels L or R or both.

**Type:** indicates the type of input assigned to the encoder (UDP, audio device, URL)

The three input types have different configuration parameters.

### Type Udp

**Port:** communication port for the UDP protocol

**Buffer Size (ms):** the buffer size in milliseconds

Alarm

**Enable:** enables or disables sending alarms to the monitor

**Min level audio:** minimum threshold of volume in dB

**Timeout min level audio:** the period of time in which it is allowed a volume below the set threshold

**Check L or R:** If enabled controls the right and the left channels separately

## Type Audio Device

General **Input** Output Commands Audio processor Maintenance

Type: Device audio ☒ Left ☒ Right

Device: Line 1 (Virtual Audio Cable)

Buffer size (ms): 2000

Alarm

☒ Enabled

Min level audio (db): -90 ☐ Check L or R

Timeout min level audio (ms): 20000

Save

**Device:** Device sound input

**Buffer Size (ms):** the buffer size in milliseconds

Alarm

**Enable:** enables or disables sending alarms to the monitor

**Min level audio:** minimum threshold of volume in dB

**Timeout min level audio:** the period of time in which it is allowed a volume below the set threshold

**Check L or R:** If enabled controls the right and the left channels separately

## Type URL

General **Input** Output Commands Audio processor Maintenance

Type: Url ☒ Left ☒ Right

Url:

Alarm

☒ Enabled

Min level audio (db): -90 ☐ Check L or R

Timeout min level audio (ms): 20000

Save

**Url:** URL of the input signal

Alarm

**Enable:** enables or disables sending alarms to the monitor

**Min level audio:** minimum threshold of volume in dB

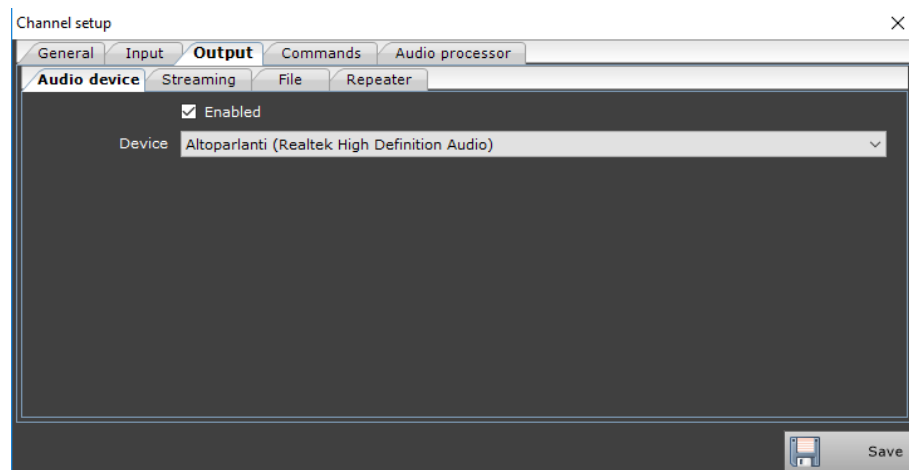
**Timeout min level audio:** the period of time in which it is allowed a volume below the set threshold

**Check L or R:** If enabled controls the right and the left channels separately

## Output

In this section, you can configure the output of **Audiocast**, directing it to a channel for monitoring such a streaming server, registration, or redirect it to another IP address.

### Audio Device



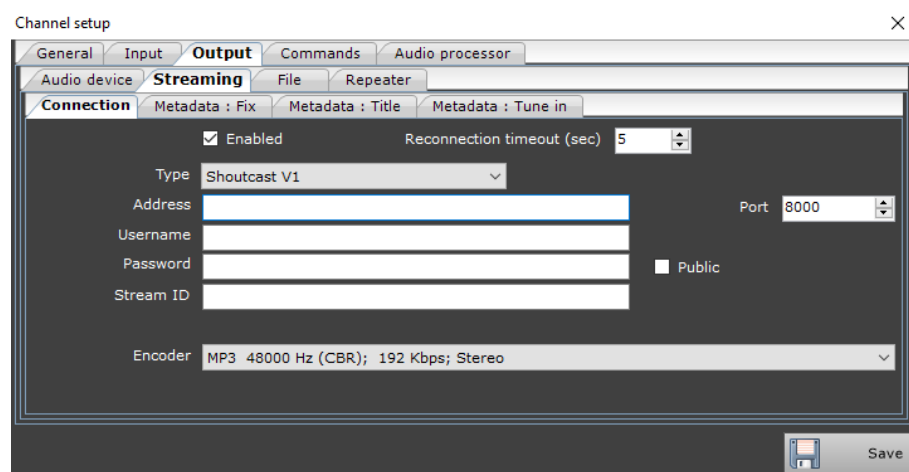
**Enabled:** Enable or disable the audio output device

**Device:** allows you to choose the output device on which to listen to the audio signal.

### Streaming

Allows you to configure all the data related to the streaming toward the server.

#### Connection



**Enabled:** Enable or disable streaming

**The Reconnection timeout (sec):** interval in seconds for the reconnection in case of error

**Type:** the type of server you want to connect (Icecast, Shoutcast V1, Shoutcast V2)

**Address:** The address of its streaming server

**Port** - port for communication with the server

**Username:** User Name (only for Shoutcast service)

**Password:** password access to streaming server

**The stream ID:** account name (only for Shoutcast)

**Mount Point:** directory of data access (only for Icecast)

**Encoders:** audio encoding format for streaming (including frequency and bits per second)

Audiocast

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### Metadata: Fix

In this tab, you enter data that will remain fixed during streaming.

Channel setup

General Input **Output** Commands Audio processor

Audio device **Streaming** File Repeater

Connection **Metadata : Fix** Metadata : Title Metadata : Tune in

Genre

Name

Url

Save

**Genre:** Musical genre of radio station

**Name:** The name of the radio

**Url:** URL of the issuer

### Metadata: Title

In this tab, you can select different types of metadata to add packages to streaming

Channel setup

General Input **Output** Commands Audio processor

Audio device **Streaming** File Repeater

Connection Metadata : Fix **Metadata : Title** Metadata : Tune in

Type Xml file

Filename

Timeout read file (ms) 10000

☒ Artist ☒ Title

Save

**Type:** The type of metadata (Fix, txt files, XML file)

**Title:** fixed title (only for the type "Fix")

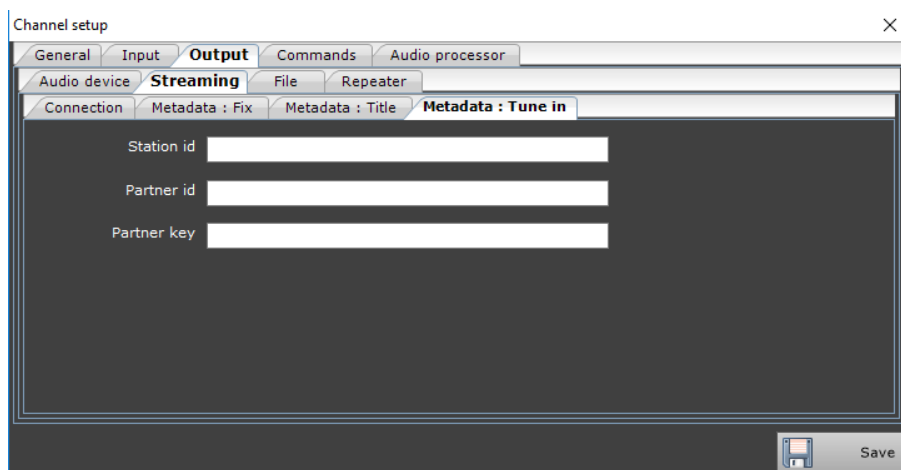
**Filename:** path and name of the file .txt or .xml where to find information related to title.

**Timeout read file (ms):** interval in milliseconds for reading the file .txt or .xml

**Artist & Title:** Enable or disable the information relating to title or artist (only for type "Xml file")

## Metadata: Tune In

Setting the metadata used through the TuneIn application



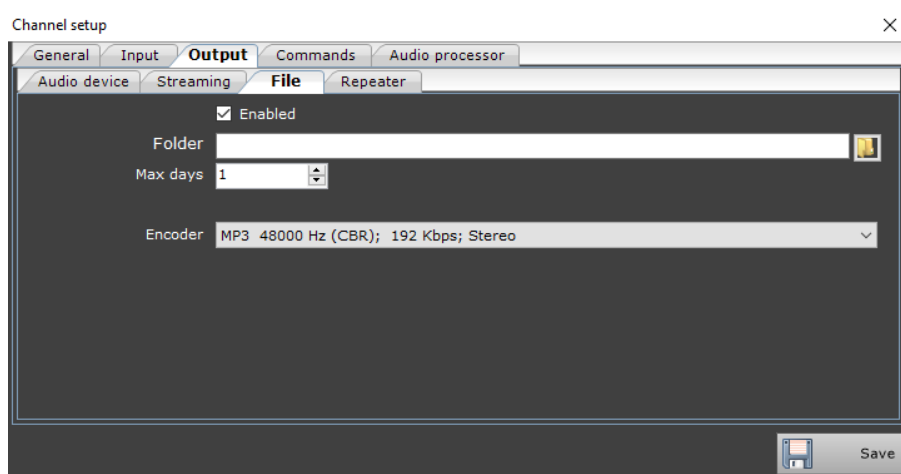
**Station ID:** The name of the radio recorded on TuneIn

**Partner Id:** User accounts of TuneIn

**Partner key:** account password TuneIn

## File

Through the save to file **Audiocast** create audio files of one hour each. The name of different files will be assigned according to this format: "NOMECANALE\_YYYY-MM-DD\_hh.mm.ss"



**Enabled:** Enable or disable the file-based recording audio

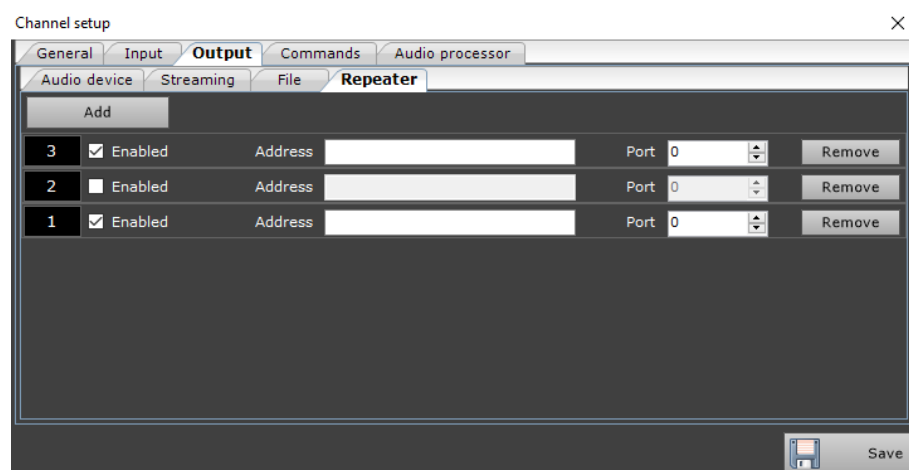
**Folder:** path to the folder where the files will be stored

**Max days:** the number of days of which records will be kept inside the folder

**Encoders:** format of the recorded audio

## Repeater

Allows you to distribute the output signal to different IP addresses.



Through the **Add** button, you can add multiple destinations for the output signal.

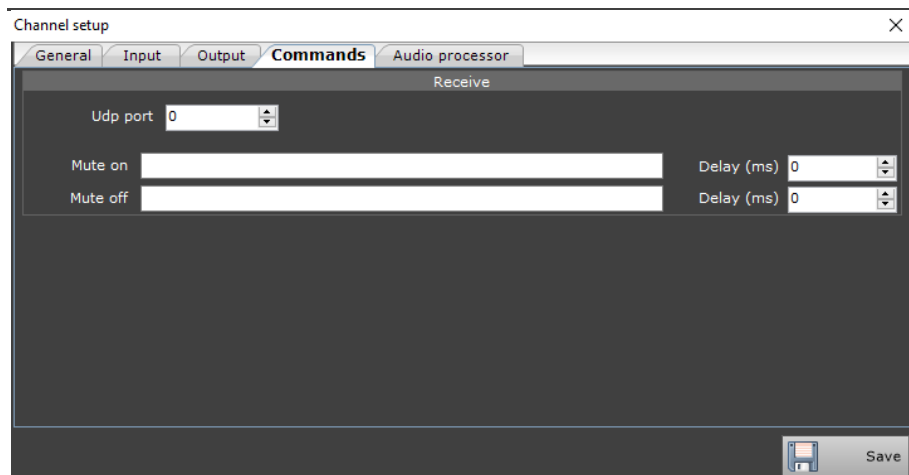
**Enabled:** Allows you to activate or deactivate the output channel.

**Address:** IP address to which to send the output.

**Port:** communication port.

**Remove:** removes from the list output channel.

## Commands



**Udp port:** The communication port of the UDP protocol

**Mute on:** The command string to mute

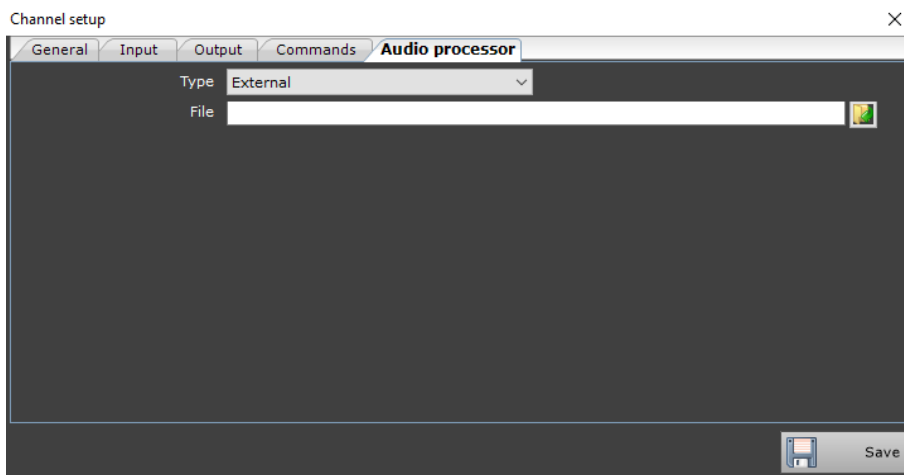
**Delay (ms):** Time in milliseconds of delay on the execution of the command

**Mute off:** command string to deactivate the mute

**Delay (ms):** Time in milliseconds of delay on the execution of the command

**Audiocast** allows the use of a signal processor, which will be applied to the input signal before being distributed to the different output configured. The signal processor can be selected via the drop-down menu **Type**.

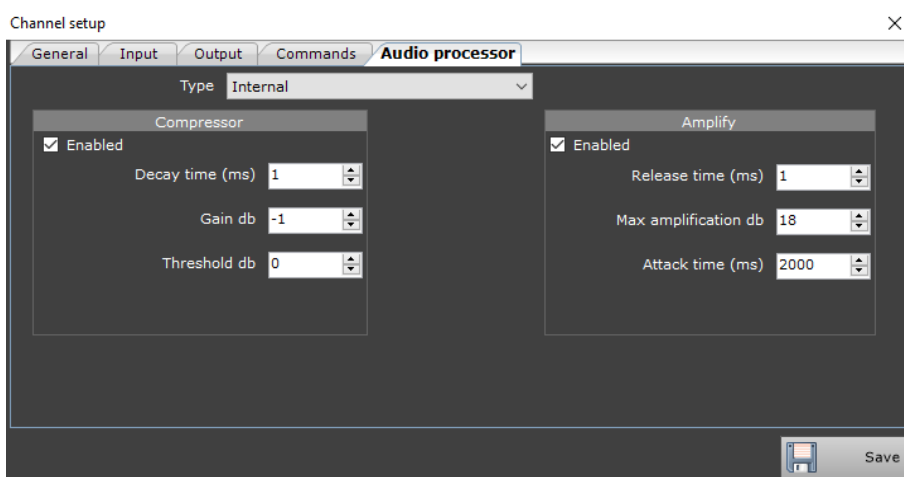
### External



**Type:** the type of processor selected audio (external)

**File:** path and name of the file corresponding to the signal processor that you want to use.

### Internal



**Type:** the type of processor selected audio (internal)

#### Compressor

**Enabled:** Indicates whether the compressor is activated or deactivated

**Delay time (ms):** response time of the compressor in milliseconds

**Gain db:** Gain of compressor in decibels

**Threshold db:** threshold of compressor expressed in decibels

#### Amplify

**Enabled:** Indicates if the amplifier is activated or deactivated

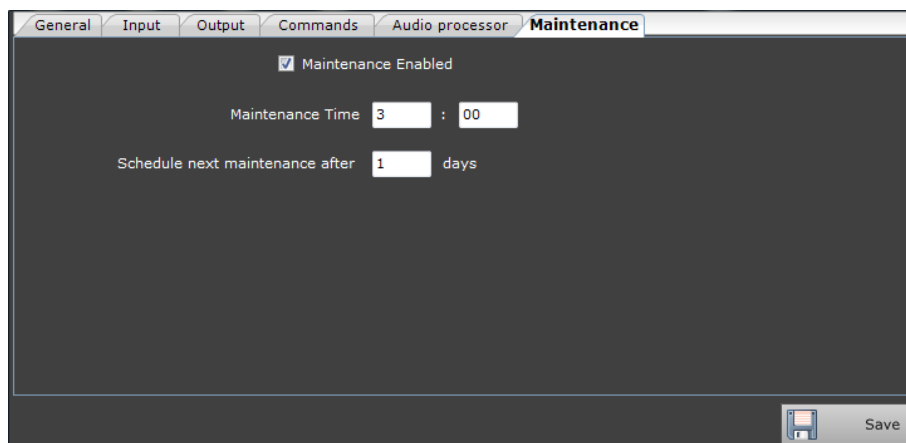
**Release time (ms):** release time of the compressor in millisecond

**Max amplification db:** maximum amplification expressed in db

**Attack time (ms):** attack time of the compressor in milliseconds

## Maintenance

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**Maintenance Enabled:** Enable or disable the maintenance function

**Maintenance Time:** Time for the schedule restart Audiocast

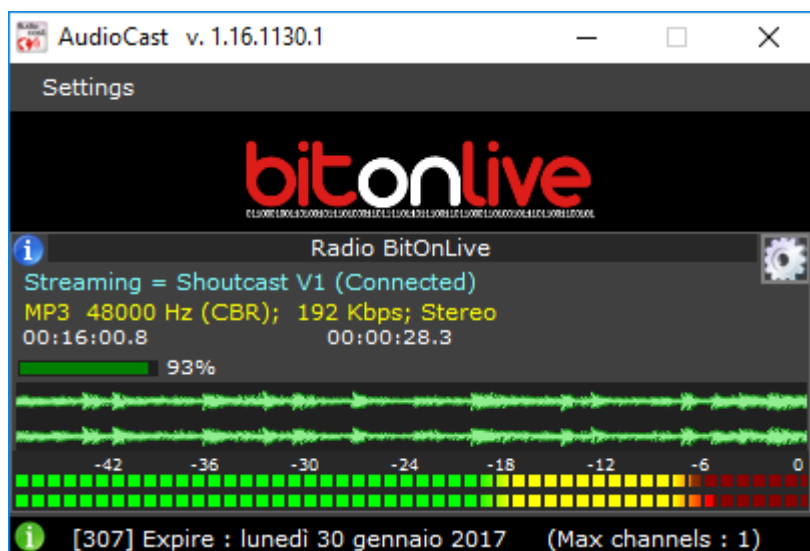
**Schedule next maintenance after:** number of days for the repetition of the reboot

## Additional Info

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At the end of the configurations click on button  to make active all of the changes.

The working program appears with the following aspect:



Here you will find information about the state of **Audiocast** and display of the waveform of the input signal. To change the settings of the encoder just click on the icon .