	Title:	Technical note: "AutoVisca: functionalities description"
	Date:	18/5/2015
	Version:	1.0

**TECHNICAL NOTE:
“AUTOVISCA: FUNCTIONALITIES
DESCRIPTION”**



ISO 9001:2008
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OFERTA PRESENTADA POR

Ambiser Innovaciones S.L.

Avda. General Fanjul, 2B Planta 2 Oficina 6
28044 Madrid (Spain)
Tel: +34 91-060-11-96
E-mail: info@ambiser.es

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Introduction

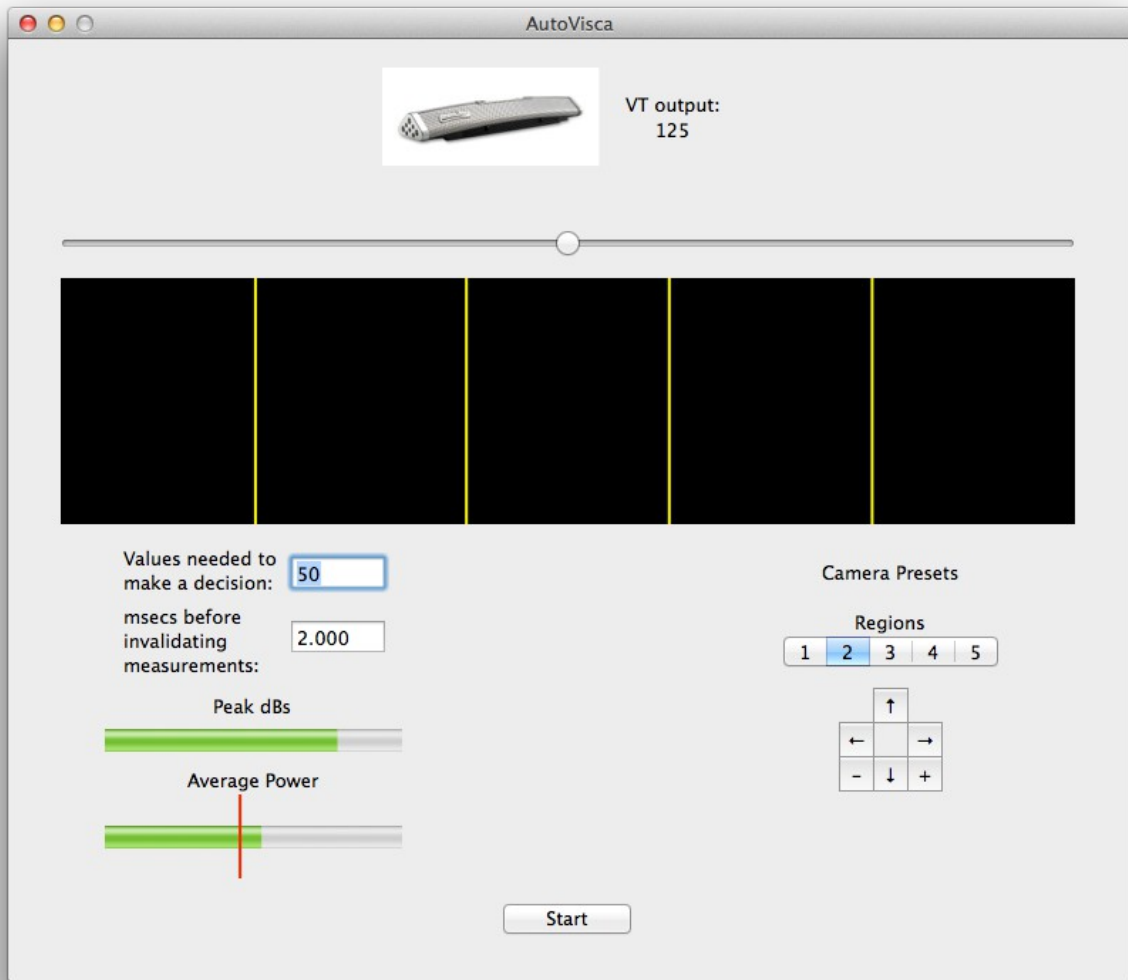
This document briefly describes the high level functionalities of the AutoVisca application. AutoVisca application has been developed by Ambiser Innovaciones S.L. and is used together with VideoActa™ to automate the recording of meetings. AutoVisca can also be used standalone to control VISCA-compatible PTZ cameras.

Objective

AutoVisca controls VISCA compatible PTZ cameras based on the information provided by Acoustic Magic's VoiceTracker II microphone array. The user can map up to 5 zones to camera presets.

The following picture shows the configuration options of the application:

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Voice Tracker II provides a talker location signal over its RS-232 port. This information is shown in the upper part of AutoVisca's main application window, represented both in a numerical value and in a visual slider.

The user can map up to 5 zones to camera presets. When the sound comes from one of the 5 zones, the application will automatically trigger the matching preset in the camera and the camera will position itself accordingly.

In the lower left of the application's main window the user can fine-tune several parameters that affect how the application responds to the VoiceTracker II talker location signal:

- Values needed to make a decision.
- Milliseconds before invalidating measurements.

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- Sound power threshold.

Values need to make a decision is a numerical parameter that configures the number of reads coming from a zone before considering the zone as the new sound source. This parameter helps in detecting false positives and prevents the application from reacting to unwanted sounds such as moving papers, little knocks, coughs, etc.

Miliseconds before invalidating measurements is the period of time, measured in miliseconds, before the application invalidates the pool of values used to make a decision. This parameter helps in identifying a continuous source of sound as when there is someone speaking.

Peaks dBs level indicator displays the peak value of sound source.


Average power level indicator displays the average power of sound coming from the VoiceTracker II. The user can configure how loud the sound must be before the application considers the talker location signal data coming from the microphone array.

The user must click on the "Start" button for the application to start considering values and making decisions about triggering the camera presets.

System requirements

The minimum system requirements are as follows:

- Apple Mac with OS X 10.7 "Lion" or later.
- Two available USB ports.
- Sound input interface:
 - An available Line-In or Mic-In port to work with analog audio signals or,
 - An available USB port to work with the digital audio signal provided by the VoiceTracker II.

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Conference room setup

The VoiceTracker II must be located in the conference room and must be wired to the computer controlling the PTZ camera:

- Digital or analog audio wiring from the microphone array to the computer's audio interface.
- Talker location signal wiring from the VoiceTracker II to the computer's first serial adapter.
- VISCA control interface wiring from the VISCA-compatible PTZ camera to the computer's second serial adapter.

