

SmartCAM-876
 Front Panel


FEATURES

- 8 logic inputs (for console's mic tally/aux)
- 7 logic tally outputs or auxiliary GPOs
- 6 audio level meter channels
- USB bus powered
- Professional shielded metallic case
- Plug-and-Play Windows drivers
- Protected inputs and outputs

DESCRIPTION

SmartCAM is an interface that allows HDVMixer to switch studio cameras based on studio microphones audio levels. Microphone audio is routed into SmartCAM-876 interface for audio level metering.

HDVMixer can automate video source switching based not only on console's microphone tally, but on studio mic audio signal level. Using both logic and audio level triggering improves visual content dynamics while avoiding the need for manual camera switching.

SmartCAM-876 analog audio meter inputs require a mic pre-amp output signal. Maximum input level is +6dBu for a 0dB level display in HDVMixer's SmartCAM panel.

When the studio console does not provide pre-amp outputs or insert-out hook-ups then SmartCAM-876 can work with miniature electret microphones that act as audio level sensors. Internal jumpers will set gain to mic level and enable phantom power. These sensors will then be mounted next to each of the studio's microphones.

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SPECIFICATIONS (subject to change without notice)

USB Voltage:	4.6 – 5.5 VDC
Current Consumption:	80 – 150 mA
USB Speed:	Full Speed
Analog Input Resolution:	10 bit
Analog Input Impedance:	4.7 kΩ
Analog Max Input Level:	+6dBu /-40dBu MIC
Level Detector Range:	> 40 dB
Level Detector Threshold:	-40 dBFS – 0 dBFS
Digital Pull-up Resistance:	15 kΩ
Digital Low Voltage (Max):	0.9 VDC
Digital High Voltage (Min):	4.2 VDC

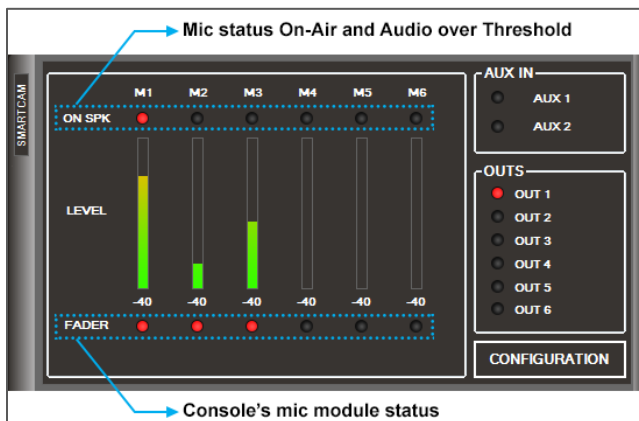
Digital Output Resistance:	300 Ω
Digital Output Current:	16 mA
Digital Output Voltage:	0 – 5 VDC
Input Protection:	± 12 VDC
Output Protection:	Short Circuit
Operating Temp.:	0 to +50 degrees C
Storage Temp.:	-40 to +70 degrees C
Humidity:	0-95% (no condensation)
Dimensions:	1.25"x5"x7" (HxWxD)
Weight:	1.0 lbs

APPLICATIONS INFORMATION

SmartCAM-876 has been specifically designed to add audio triggering capabilities to HDVMixer in Visual Radio applications. Together with console mic module tally, HDVMixer's SmartCAM panel displays audio levels in real time for up to 6 studio microphones. Auxiliary logic inputs and outputs are also displayed.

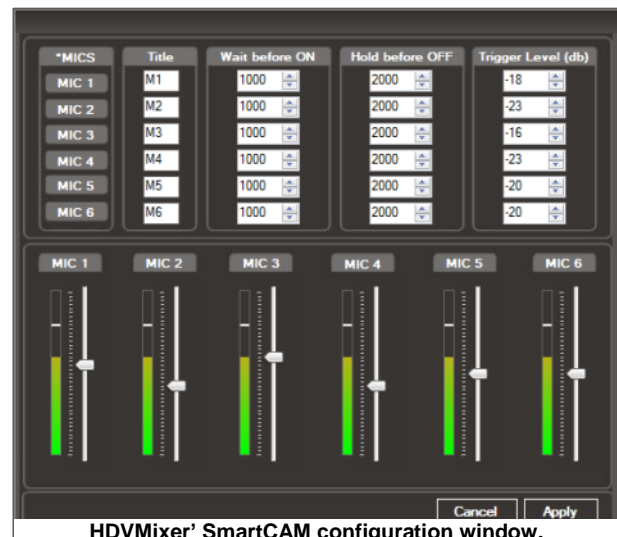
SmartCAM settings are independently set for each of the 6 channels. The configurable parameters are:

- Audio trigger threshold: audio level above which a signal is considered present.
- Wait before ON: the amount of time that audio level should be above threshold for SmartCAM to consider that someone is speaking at a specific mic.
- Hold before OFF: the amount of time that audio level should be below threshold for SmartCAM to consider that no one is speaking at a specific mic.



HDVMixer SmartCAM status pane.

HDVMixer's SmartCAM configuration window provides easy access to configuration and settings. Each input can be assigned a 3 character alias name for easy recognition together with operational settings.



HDVMixer' SmartCAM configuration window.