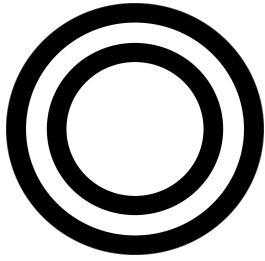


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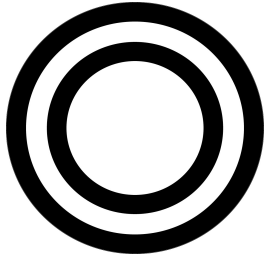
Feature	Function	Parameter
Loudspeaker Setup Designer	Integrated tool to define loudspeaker positions in a configuration file as the basis of the IOSONO processing	create, edit, import & export loudspeaker files define spaces to render on multiple audience areas
I/O control services	Edit: Select hardware configuration	Autodetect Available configurations: 1x MADI (64 channels), 2x MADI (128 channels), 16x AES (32 channels)
	Edit: Synchronization settings	Available sync settings: Internal, Syncln, Wordclock, LTC, Video or Signal
	Status: Display of level metering and sync status	Input, Processing, Outputs level meters for all available soundcards
Processing services	Edit: General	Buffer Size: 64 – 4096 Samples (main parameter to determine system latency)
		Number of Live Inputs: up to 128
		Available Processing modules: Renderer, Player, Render+, Noise
	Edit: Renderer	Activate, Auto configuration (creates a number of Render Slots based on loudspeaker file) Render Slot settings for optimization, such as Algorithm types, Latency, Gain settings and many more...
	Edit: Player	Wave (mono, stereo, up to 64 multichannel) IOSONO MASTER FILE (imf), Standalone & LTC slave playback
	Edit: Render+ - upmix standard multichannel audio (add. license required)	5.1 & 7.1 Input Useful parameters available for customized settings
	Edit: Noise	Selection of Signal Types: Pink Noise in full-bandwidth and band-limited Settings for Duration, Sequence and Volume
	Status: CPU load monitoring	Underrun detection, CPU monitoring per Core and overall Peak
Status: Player functions	Single / loop / tracklist playback state, Play / pause / stop, Add / delete / order tracklist / Volume of individual titles Scene scaling	
Scene Designer service	Integrated service to creates internal scene data in real-time. The tool for object-based mixing to WAV playback and live inputs	Add/copy/delete up to 128 sources
		Main parameters for one source: Position (polar/cartesian), unique layer approach (Vertical Pan), Type (Plane/Point), Min. Latency, Volume, LFE, Spread, Delay
		up to 8 Snapshots to recall scenes instantaneously for multiple sources
		up to 3 Source Traits for exclusive group assignment



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Feature	Function	Parameter
Remote Control Extension	Send & receive remote control commands for preset and playback handling	Connection Type: UDP/IP, TCP/IP
		EoL ASCII Sequence: CR, CR/LF, LF
		Activation
System Tuning Extension	Measurement	Loudspeaker file selection, Import/Export
		individual Loudspeaker Group measurements
		flexible Number of Microphones Positions (more than physically available)
		Mic Input Level Metering
		Start/Stop/Delay measurements
		comprehensive Filter comparison and Measurement / Result reviewing
		Filter Creation
	Individual Target Curve & Relevance Scope definition	
	Kit Parameters for Smoothing and Frequency Range	
	White List for pre-selection of valid measurements	
	Automatic Preprocess - convolution from time to frequency domain of averaged multipoint IR measurements	
	Automatic Filters Design for each loudspeaker on averaged multipoint measurements	
	Apply Filters to Global Filter library or individual presets	
	Settings	Sample Rate: 44.1, 48 & 96 kHz
		flexible Number of Simultaneous Microphones
		flexible Frequency Range of Signal Type
		flexible SNR (INR)
	Scene Display Extension	overview and monitoring of scene data
separate I/O Routing and Soundcard Synchronization		
graphical representation and list view		



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Feature	Function	Parameter
Preset based software structure	Main Overview	basic control of all available presets: Run/stop, new/delete/copy/revert/rename/save
	Preset Details	General: Sample Rate: 44.1 / 48 / 96 kHz Frame Rate: 24 to 30 fps Loudspeaker File assignment Individual Scene Port settings Filtering: Filter Assignment to Global Filter Library or individual speakers FIR Filter from System Tuning Extension with multipoint IR measurements IIR Filter as Parametric EQs Services: I/O Control, Processing, Scene Designer as described above
Filter Library	Global assignment of FIR and IIR tuning filters to multiple presets	Create/Copy/Delete Filter Configurations
		Select Loudspeaker Setup file
		Switch Loudspeaker Group view
		Filter Assignment to individual speakers
		FIR (based on System Tuning IR measurement) & IIR (Parametric EQ) Filter