# **Innovative Solution** for Performing Arts:

Automatic Sound Image Localization

and

Interactive Improvisation

based on

Position & Motion Tracking Technology



Solution for Interactive Improvisation

Automatic Control by Region-based positioning and Motion Tracking

### Regions

- Predefined Areas on Stage

### **Motions**

- Shaking
- Turning
- Drawing Geometric Figures
- Clicking Buttons

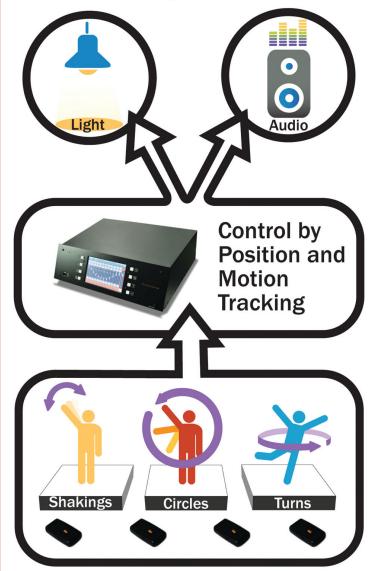
#### Controls

- Sound by LPMA-1000
- Light via DMX512

Enabler for Creative Performance by Providing Interactive Improvisation

Draw attention and response from the audience and make the performance more active and interesting!

For example, lights or sound can be turned on or off automatically by the actor's movement or motion based on the audience's responses.





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# Solution for Automatic Sound Image Localization

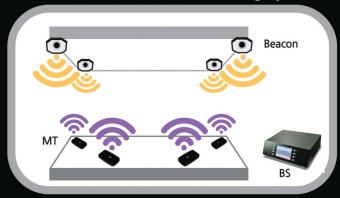
LPMA-1000



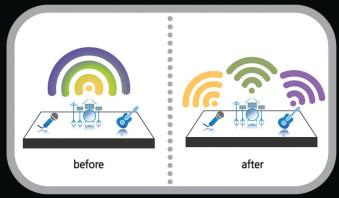
# Automatic Sound Image Localizer based on the individual positions of performers

- Full digital control and processing
- Executable Cue Sheet by timetable
- Cue Sheet execution by manual or Position and Motion Recognition
- Low delay audio processing
- Play from stored sound files
- Phantom power supply
- User input by touch screen and buttons

### Structure of real-time locating system



## Effect of Sound Image Localization



### Specification

Input	
Output	©24 channel XLR Balanced Jack 2 channel (L/R) output mode 3 channel (L/C/R) output mode (optional) ©Analog mixed output ©Headphone output ©Digital mixed output : SPDIF, AES/EBU (optional)
Signal Processing	<ul> <li>Digital mixer</li> <li>96KHz sampling, Low delay</li> <li>Fader / Solo / Group</li> <li>Peak detect         <ul> <li>Input signal level</li> <li>Mixed signal level</li> </ul> </li> <li>Input gain control</li> </ul>
Playing from files	©Play back files from internal storage or USB storage ⊚Support MP3, WAV, etc.
Cue Sheet	©Cue sheet edit ©Cue sheet execution
communi cation	⊚Zigbee 2.4GHz ISM Band (RF)
Sensors	©Accelerometer, Geo-magnetometer, Ultrasonic sensor
Front panel	©7 inch TFT-LCD (800 x 480) ©8 function buttons ©Automatic brightness control by light sensor
Interface	©USB 2.0 Host (High Speed) ⊚Network (100Mbps LAN) (optional)
Motion and event trigger (optional)	©Entry or exit to/from specified regions ©Shaking / Turning / Drawing Geometric Figures ©Clicking Buttons ©Button click on mobile terminal
Power	©100V ~ 240V AC (50Hz - 60Hz)