



Next Generation Automated Follow-System



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zactrack *SMART* is the world's first **Plug and Play** automated follow system. Operating a system takes less than 15 minutes from unpacking the components to a full-blown automation for stage lighting, sound or video. zactrack *SMART* uses **self-measuring** "mesh network technology" to accurately calculate the dimensions of the stage without using any measurement aid. **Just like magic!**

Radio Tracking

zactrack uses state of the art Ultra-Wide-Band (UWB) real time radio tracking technology. Acting from 6.2 to 6.7 GHz frequency spectrum with minimum power levels, the technology is available worldwide without any licensing for the end user.

Radio tracking transmits through common stage materials (cloth, cardboard, wood, scaffolding ...) and is undisturbed by any effect or weather-related interference (direct sunshine, fog, rain, snow, lighting, fireworks, ...).

Just hide the tiny tracker under your costume, clip it on a lanyard around your neck or simply put it in your pocket. zactrack is easily applicable for all situations from theatre plays to business presentations.

High accuracy and speed in 3D

zactrack tracking pinpoints the target down to 5 cm accuracy in 3D space and uses advanced prediction mathematics to cope with speeds from acrobats and ice hockey athletes to race cars.

Patented Alignment Algorithm

zactrack uses a unique and patented fixture alignment algorithm which delivers unparalleled accuracy of any moving fixture around the stage.

The software uses advanced mathematics to locate the correct position and orientation of the fixture in 3D space resulting in extreme precision of long throw beams positioned even 100 meters from the target.

Control Lights, Video and Sound

With a single zactrack server you can control lighting fixtures, video projections and 3D sound simultaneously. The system integrates with any stage network and works together with the lighting desk of your choice. Creative work of the LD always stays at the console.

Stage Machinery

Mount a moving light on a hoisted truss and follow an actor on stage while the truss goes up and down. zactrack fully integrates with various machinery controls and kinetic systems. Positions can be used as moving target points or for changing the fixture positions in real time.



System Components

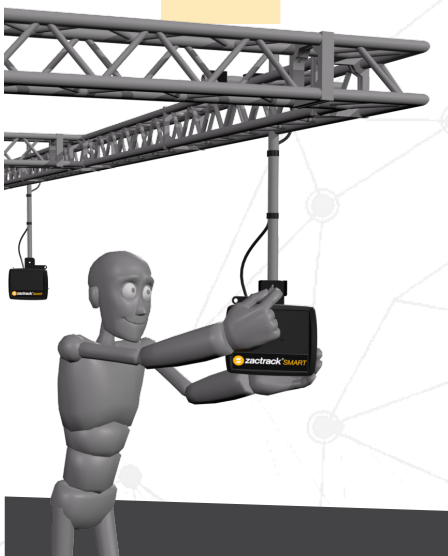
zactrack *SMART* comes with 8 Anchors which are mounted around the playing area

Plug and Play —

3 Easy Setup Steps. Operable in less than 15 minutes.

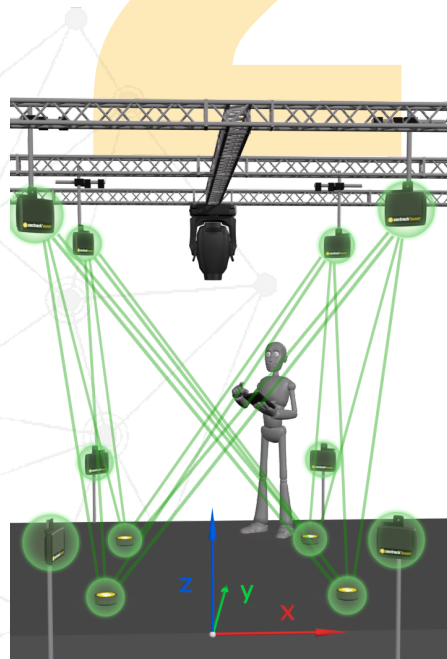
Step one: **MOUNT**

Mount the 8 anchors randomly but equally distributed around your playing area. Use multiple height levels for 3D tracking results. Cable the anchors with PoE network cables to the zactrack SMART server using a common PoE switch. Run the zactrack SMART tablet client and wait until every anchor has registered with the server automatically.



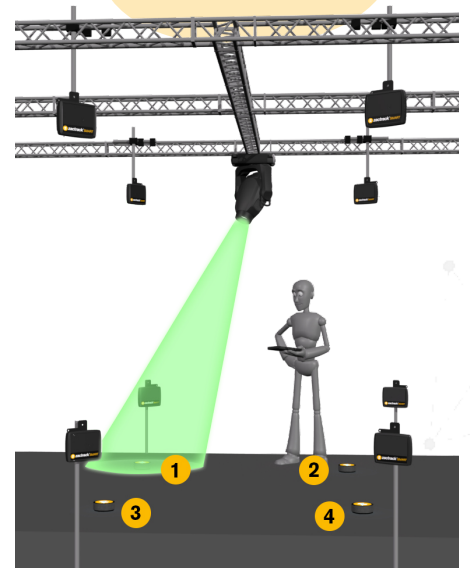
Step two: **MEASURE**

Place the 4 zactrack SMART Pucks in a rough rectangle minimum 3 meters apart on the stage floor. Turn them on and hit the “self-measure” button on the tablet app. Surprise! Half a minute later you will see a complete sketch of your stage geometry on your app.



Step three: **ALIGN**

Patch your moving light and point the beam roughly on each of the pucks by using the lighting desk or the tablet app. Hit the “auto-align” button on the tablet app and zactrack SMART will do an automated alignment sequence on each of the 4 pucks. A minute later zactrack SMART knows the exact position and orientation of your fixture in 3D space.



One zactrack SMART system can handle up to 10 trackers simultaneously on stage

zactrack® SMART System Components

■ 8 zactrack SMART Anchors

6.24 - 6.74 GHz UWB active radio antenna
190x200x42 mm, 500g, PoE, IP64
Rig mounting plate for clamp and safety line

■ 5 zactrack SMART Trackers

6.24 - 6.74 GHz UWB active radio emitter
35x60x10 mm, 26g, IP67
8h LiPo battery life
Charging Station USB-C

■ 4 zactrack SMART Pucks

6.24 - 6.74 GHz UWB active radio emitter
Lighting sensor
Ø 95mm x 59mm, 342g
96h LiPo battery life
Charging Station USB-C

■ zactrack SMART Server

9.5" (half size) rack mount server
225x220x43 mm, 1.3 kg
100-240VA ~0.6A, 50 - 60 Hz



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