StarTracker® PTZ

StarTracker add-on for Sony BRC-X1000 4K PTZ cameras delivering studio-wide camera tracking

‘Reveal the full 3D space of your virtual studio by adding 4 more axes of camera tracking’
Key Features

- **Positional camera tracking** – adds and merges XYZ positional tracking data to the 4K PTZ camera’s PTZ+focus tracking data, enabling full 3D 6-axes camera movement in a virtual studio.

- **Customized wrap-round StarTracker unit** – an aesthetically pleasing design that fits around the 4K PTZ camera unit, enabling the full range of camera movement and zoom control.

- **Direct attachment to jibs, dollies** – simple mounting to tripods, jibs, dollies, and rails, without a traditional camera head.

- **Manual movement/remote PTZ** – manually change static or dynamic (jib, dolly, rails) camera positions freely, whilst a second operator uses the remote PTZ controls.

- **Remote movement/remote PTZ** – mount the StarTracker PTZ and 4K PTZ camera on remote controlled jibs, dollies, or rails for single operator 6-axis remote control.

- **Remote Configuration** – use StarTracker Studio Manager to remotely set up and adjust multiple StarTrackers using a single interface.
Product Description

The Mo-Sys StarTracker PTZ is a StarTracker add-on for the new generation BRC-X1000 4K PTZ cameras, which come with integrated 2-axes of tracked camera movement (pan and tilt), plus zoom and focus data.

The new 4K PTZ camera/head combinations provide tracking on 2 axes of movement, enabling panning and tilting in a virtual studio, but from a fixed point only. Only when you move a camera linearly do you reveal the true 3D space of your virtual studio, through parallax and perspective changes. When viewers can see foreground objects move faster than background objects as a camera moves laterally, then they can sense the true 3D space of the virtual studio. This is what StarTracker PTZ provides.

The StarTracker PTZ operates by combining the 2 axes of tracked data from the PTZ camera, with the roll plus XYZ positional data it generates itself, and outputs the full 6 axes of movement data to the virtual studio software. As a result, the virtual set experience for the viewer becomes more compelling and immersive.

The combined StarTracker PTZ and 4K PTZ camera, can be moved manually or remotely using rails, jibs, or cranes. Because the tracking in StarTracker PTZ is absolute, the camera's position in the virtual set is always known, and it never requires ‘homing’ on power-up.
What’s in the box?

Package includes:

- Monitor
- Power Supply
- Keyboard with trackpad
- Monitor Power Cable
- HDMI Cable
- WiFi Dongle

Optional Extras

**Mo-Sys Jib Control Device**

In order to mount the StarTracker PTZ and 4K PTZ camera on a jib, and to operate the camera from the end of the jib, Mo-Sys have developed an interface box that allows full pan, tilt, zoom and focus control, using industry standard Jimmy jib input devices. This creates a highly cost-effective jib package with a remote head and 6 axes tracking for virtual studios and augmented reality.
# System Information

## StarTracker PTZ

<table>
<thead>
<tr>
<th>StarTracker PTZ Sensor</th>
<th>Infrared (850nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Input</strong></td>
<td>DC 12V 3A over 4-Pin XLR</td>
</tr>
<tr>
<td><strong>Data Output</strong></td>
<td>Mo-Sys F4 or D1 over IP</td>
</tr>
<tr>
<td><strong>Monitor</strong></td>
<td>135 x 90 x 15 mm</td>
</tr>
<tr>
<td><strong>Magic Arm</strong></td>
<td>100 x 50 x 50 mm</td>
</tr>
<tr>
<td><strong>Wireless keyboard/trackpad</strong></td>
<td>380 x 160 x 40 mm</td>
</tr>
<tr>
<td><strong>USB Wifi dongle</strong></td>
<td>100 x 20 x 20 mm</td>
</tr>
<tr>
<td><strong>Monitor power cable</strong></td>
<td>80 mm</td>
</tr>
<tr>
<td><strong>12V 3A power supply unit</strong></td>
<td>150 x 60 x 50 mm</td>
</tr>
</tbody>
</table>

## Mo-Sys jib Control

<table>
<thead>
<tr>
<th><strong>Power</strong></th>
<th>12V 0.5A over 4-pin XLR</th>
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</thead>
<tbody>
<tr>
<td><strong>Network</strong></td>
<td>Ethernet over RJ45 - used for PTZ head control over IP</td>
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<tr>
<td><strong>Dimensions (jib control box)</strong></td>
<td>67 x 147 x 235 mm</td>
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**For more information**

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www.mo-sys.com