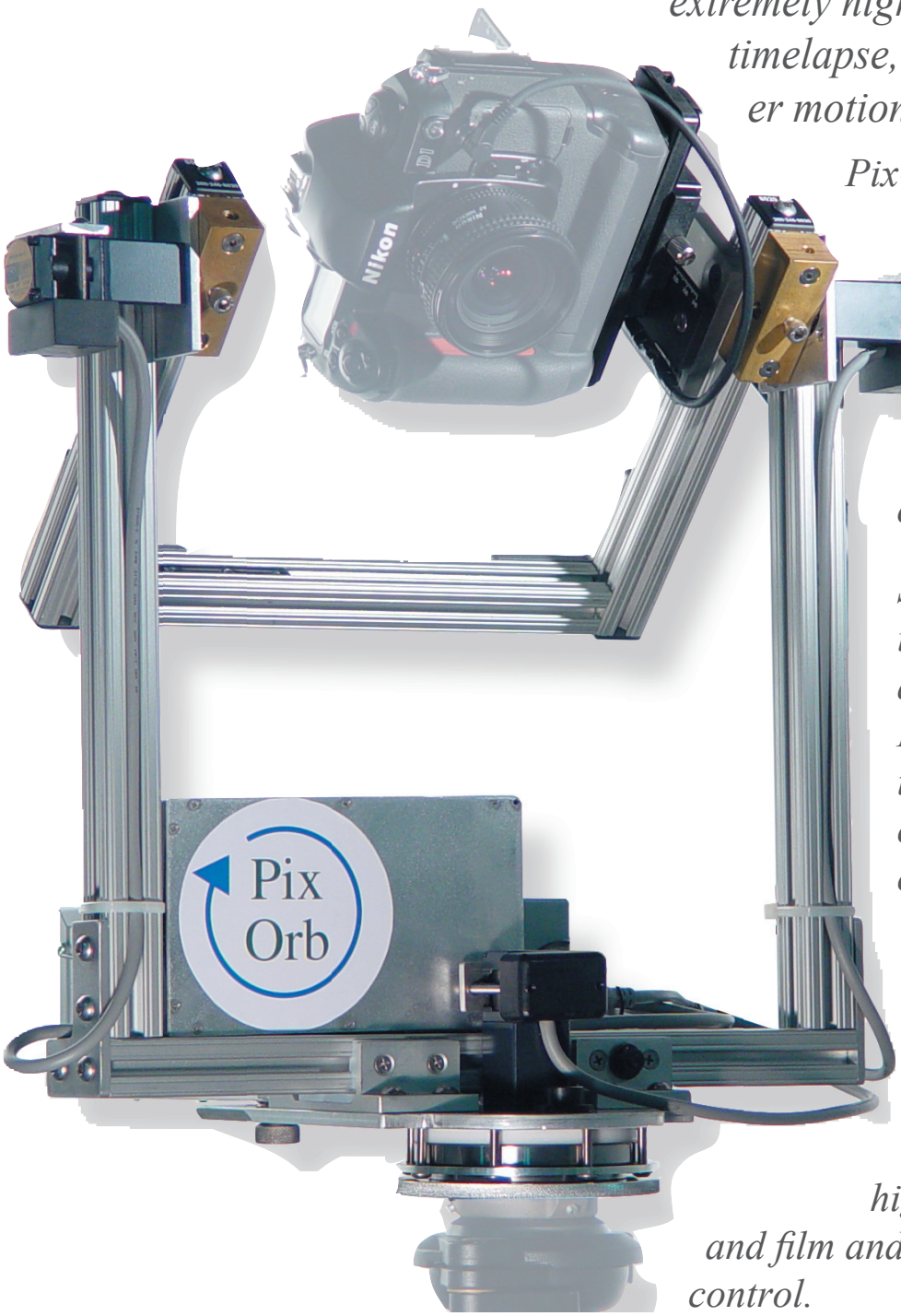
PEACE RIVER STUDIOS

Films and Beyond...

PixOrb-HD™

Precision Motion Control for Image Capture



PixOrb-HD is a motorized head for panoramic and spherical photography, extremely high resolution murals, motion timelapse, repeatable moves, and other motion control applications.

PixOrb's automated, battery-operated features enable efficient image capture in time sensitive shooting situations, remote locations, and tight quarters.

Smooth and quiet operation is suitable for natual settings and wildlife photography. PixOrb can be connected to a computer for unlimited customization of motion control routines.

PixOrb has additional applications in special effects photography such as high dynamic range imaging, time-lapse photography, high resolution backdrops, and film and video repeatable motion control.

Motion Timelapse

Coordinated Camera Moves

Large Photo Arrays

Spherical Photography

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By Professionals for Professionals

● Applications

- automatic two-axis motion control and image capture for creating spherical and cylindrical panoramas and two-axis time-lapse movies.
- programmable for any number and size of pan and tilt increments
- repeatable two-axis moves for creating full-motion film or video
- 3 operating modes: manual, automatic stand-alone, or automatic tethered to a computer
- can be mounted on our TrailRail™ linear dolly system for lightweight three-axis still and motion image capture.

● Built by Filmmakers & VR Photographers

We have been working with various virtual tour solutions since 1979. Working with MIT's Architecture Machine Group (predecessor to the MIT Media Lab) we invented unique equipment to photograph the 'Aspen Movie Map' project, the first virtual tour project designed for computer re-play.

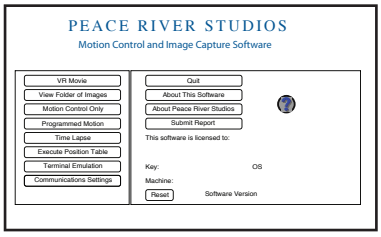
Our fully automated PixOrb-HD is a direct descendant of that and other significant research projects.

Fully Customizable

● Software

Our comprehensive Motion Control and Image Capture software will allow you to control PixOrb-HD in a variety of different ways – either tethered to a laptop or pre-programmed to operate in stand alone mode.

Many user settable parameters are available including start delay, delay after each move, as well as the time the contacts are to remain closed to allow for auto bracketing etc.



A utility in the software lets you easily transmit diagnostic information to us (via internet) should you need help troubleshooting.

● Compatibility

The cable release (included) allows you to fire Nikon, Canon, or other DSLR's via the PixOrb control box, manually or in a programmed routine.

The standard PixOrb will accomodate digital SLR's and prosumer camcorders. We can custom-build bigger PixOrb's to accommodate larger cameras like the Panasonic Varicam and 35 mm movie cameras – we've even mounted IMAX camera's on a custom PixOrb! *(See photos at www.peaceriverstudios.com)*

Included

The package includes comprehensive motion control software, two lithium-ion batteries with a one hour charger, an AC power adapter, and a lightweight wheeled carrying case.

See our website for image samples and more information.

Accessories

● Remote Control

The optional remote control box, which mirrors all onboard controls, has an extra feature: two additional knobs allow you to pan and tilt very slowly while shooting time-lapse. This allows the operator to track action without pre-programming the device.

In the slow mode user-selectable acceleration and deceleration 'ramps' provide smooth starts and stops during shooting. Your motion time lapse will look like it was shot with a fluid head!

● TrailRail™

PixOrb can be coupled with TrailRail to add a third (linear) axis to your motion control system. The PixOrb head can either run on top of the beam, or travel underneath for an unobstructed forward looking views. The lightweight TrailRail beam can span up to 60 feet supported only at the ends. The triangulated aluminum tube box-beam sections are one foot square by ten feet long, and yet weigh only twenty pounds each! Other types of track are available for dedicated studio installation, including curved sections.

● PixOrb-HD Specifications

Dimensions
Exterior dimensions 16" x 13" x 14" (at neutral position)
Cameras up to 7" x 11" will fit in the standard unit. Will accommodate nearly every DSLR and most video cameras in portrait and landscape mounts (custom sizing and configurations available)
Mounting
Circular 3.25" mounting base, three 3/8-16 screw mounts
Mounts on any tripod or leveling head
Camera bracket provides for easy front-to-back, side-to-side and up-down adjustments and allows precise positioning of the nodal point at the center of vertical and horizontal rotation to eliminate parallax discrepancies between adjacent images
Accommodates a wide range of small to medium-sized cameras and lenses in either the landscape or the portrait position. Camera plate uses standard 1/4-20 screw.
Motors
Three precision harmonic gear motors (2 tilt, 1 pan) provide smooth and accurate power. (100 to 1 gear reduction)
Control
Onboard controls allow the unit to operate independently (without a computer).
A joystick on the control box allows manual pan/tilt control.
Program start and stop buttons.
A switch selects between two pre-programmed sequences.
Additional I/O ports are provided for triggering a camera, communicating with an optional intervalometer, or connecting an optional remote control.
Can be connected to a Macintosh or Windows computer for customizing the pre-programmed moves or for computer-controlled operation (see Software)
Power
A single 28.8 volt Li-ion rechargeable battery pack powers the whole system
No cables interfere with any programmed moves
Two battery packs and a one hour 'Smart'AC charger are included to minimize down time
An AC power adaptor allows continuous operation while shooting long time-lapse shots etc.
Weight
The shipping weight for PixOrb (including the case and all components) is under 50 pounds (fly with it as regular baggage).