PTZ plus Camera motion Control

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VIEW IN BROWSER

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Summary

The Digital Bird PTZ plus WIFI Controller part of the Digital Bird 3D printable Camera Motion Control System

Gadgets > Photo & Video

Tags: wifi esp32 film thingiverse cameraslider pantilt cinematography ptz cameramotioncontrol pantilthead digitalbird ptzcontroler

Digital Bird PTZ plus wifi controller for filmmakers

All the features you will find on the compact controller with the addition of live joystick camera control for up to 4 live camera systems while at the same time controlling unlimited automated camera systems set up using the A-B function or six key sequencer.

A camera system can consist of any number of Digital Bird components, for example it may be a pan tilt head mounted on a slider or simply a camera mounted on a pan tilt head and a tripod.

Whatever the configuration, the PTZ plus control can control up to 4 live systems.

Up to 9 PTZ pre-set poses can be stored for each camera system and with version three of the Digital bird software installed all recorded keys and positions are stored even when the system is powered down allowing you to setup your system long before the event power it all down to save on batteries. Power it up again when required with all your setups ready to go.

The controller offers 5 input devices.

The Nextion touch display to control system setup and all the other functions

A three axis joystick which controls Pan, Tilt, Slid, and on/off function button

A second two axis joystick to control zoom/focus

An acceleration control knob which allows you to quickly adjust how smoothly your system performs its moves as it performs them.

An LED play button for more tactile control of recording.

The PTZ plus system uses the same NP style batteries used everywhere else on the system together with an external power jack for 7.5V supply.

WIFI range

In my admittedly not very scientific testing I would put the reliable unobstructed range of the system at between 50 and 100 Meters with no packet loss. In doors the system worked just fine between two rooms with a traditional plaster on brick wall between which is in keeping with the findings of others using the ESP_Now system without the use of external antennas. Note it is always wise to check how your equipment works at the filming location well before you find out there may be a problem. This is true for any WIFI dependent devices.

Note:

In order for the controller to work all parts of your system must be running the same version of the digital bird firmware downloadable free from GitHub.

The quickstart manual for the controller can be found in the GitHub repository.

System Links:

- **Component Kits**: https://digital-bird-motion-control.myshopify.com

- **Software**: https://github.com/digitalbird01/DigitalBird-Camera-Slider
- **Pan Tilt Head**: https://www.printables.com/model/326746-camera-pan-tilt-head-digital-bird
- **Duel action Camera Slider**: https://www.printables.com/model/326752-digital-bird-motorized-duel-action-camera-slider
- **Slider Vertical mounting base**: https://www.printables.com/model/326747-vertical-camera-slider-tripod-base
- **Focus/ Zoom motor**: https://www.printables.com/model/326749-focus-motor-digital-bird-motion-control
- **Digital Pan Head / Turntable:** https://www.printables.com/model/326745-digital-bird-video-turntable-pan-head
- **Compact WIFI controller:** https://www.printables.com/model/326750-digital-bird-wifi-remote
- **Digital Bird Mini Jib:**

Note there have been a number of changes to this model since the build video was made. A new video will be available shortly. The following improvements have been made.

- The baseplate know includes for a buck converter in order to drop the batteries 8v to 5v required for the new nextion discovery displays.
- The Display stand and top part are know printed as one piece
- The screen bezel is no longer glued on but simply slides in from the side
- There are now two M3 screws securing the battery bay to the upper cover
- The seat for the small joystick has been improved to allow for the dust ball at the base of the stick.

Print Settings

Rafts:

No

Supports:

Yes

Infill:

25- 100% depending part

Filament: Matt PLA

Notes:

I printed the base at 35% fill the screen bezel at 100% at the rest of the parts at 25% fill

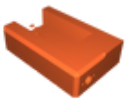
Category: Camera

This remix is based on

PTZ plus Camera motion Control

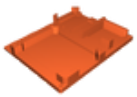
by colinh3D

Model files



001_30.stl

002_30.stl



003_30_orange.stl

004_30.stl

Some small updates to the holes for the small joystick and Record button

005_30.stl

This know slides in from the side and is not glued

Find source .stl files on Thingiverse.com

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