

PROFESSIONAL CAMERA MOTION SYSTEM

THE TAKE ONE TRIPOD

Mount your camera. Launch the app. Direct every shot remotely — panning, tilting, raising, and dollying — with a live camera feed on your Android device.

360° PAN

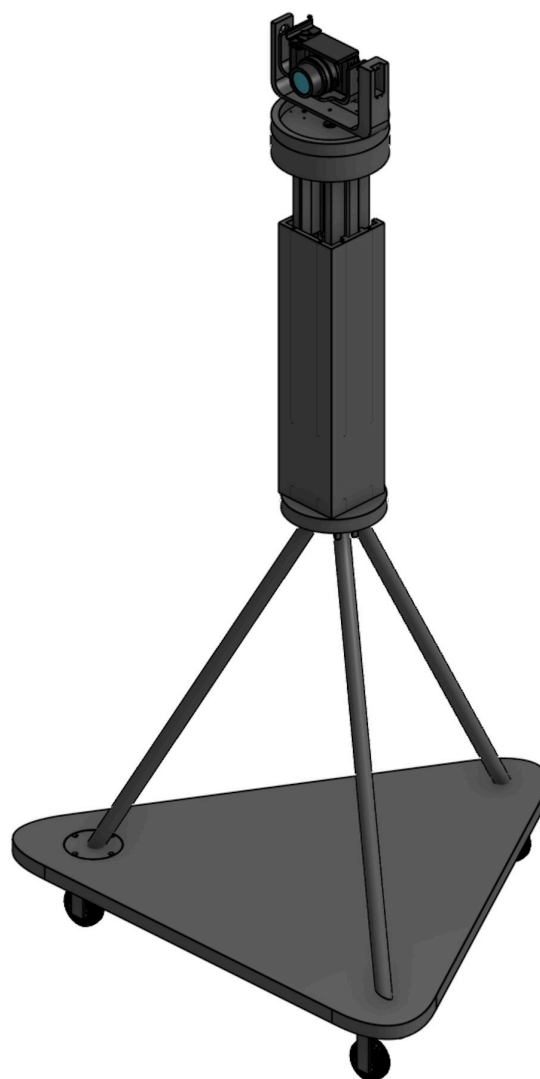
-30° TO +90° TILT

10" HEIGHT

MOTORIZED DOLLY

WIFI APP

LIVE FEED



FEATURES & BENEFITS

FULL CINEMATIC CONTROL. ZERO EXTRA CREW.



360° PANNING

Continuous full-circle pan at user-defined speed. Enables sweeping establishing shots, slow panoramic timelapses, and rotational takes — all from the app.



-30° TO +90° TILT

Full tilt range from ground-level worm's-eye to bird's-eye view. Cradle accepts any camera ≤ 1 kg and ≤ 140 mm wide with a standard 1/4-20 UNC mount.



10" HEIGHT ADJUSTMENT

Motorized ball-screw lifts the camera head up to 10 inches. Perform smooth pedestal shots and rise/fall reveals with automatic hard stop at limits.



MOTORIZED DOLLY

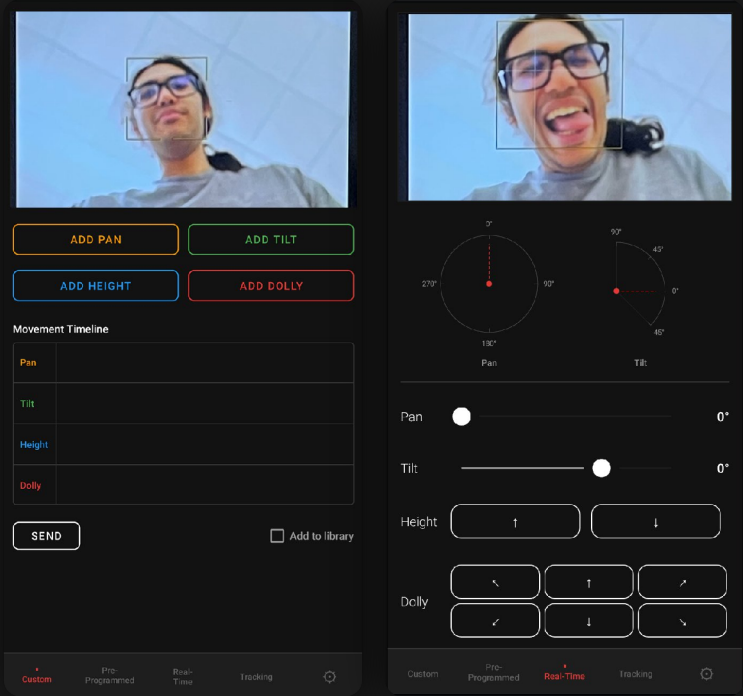
Three-wheel motorized base with $\pm 60^\circ$ front-wheel steering. Execute dolly shots, push-ins, pull-outs, and arcing moves around a subject.

ANDROID APPLICATION

EVERY SHOT AT
YOUR FINGERTIPS

The free TakeOne Android app connects over WiFi via TCP for reliable, low-latency control. Slide, tap, and program all four movement axes simultaneously – plus view a live HDMI feed from your camera.

- Real-time pan & tilt sliders with visual indicators
- Height up/down with automatic limit stops
- 6-direction dolly control pad
- Custom movement creation and timeline scheduler
- Live HDMI camera feed in-app
- Pre-programmed shot sequences



■ IN THE BOX

- TakeOne Tripod (fully assembled)
- 12 V DC battery charger
- HDMI cable for live camera feed

■ APP REQUIREMENTS

Platform	Android (any modern device)
Connection	Same WiFi network as Raspberry Pi
Live Feed	Camera must have HDMI output
Control Modes	Real-time, Pre-programmed

■ ENG. STANDARDS

Mechanical	1/4-20 UNC; ISO M4-M5
Electrical	12 V DC; fuse protected
Embedded	RPi GPIO; PWM control
Networking	TCP protocol
Software	Android framework

■ CAMERA COMPATIBILITY

Weight: ≤ 1 kg
Width: ≤ 140 mm
Mount: 1/4-20 UNC

Mount camera so center of mass rests above panning mechanism.
Longer lenses may reduce effective tilt coverage.

■ TECHNICAL SPECIFICATIONS

SYSTEM	
Total Weight	~26 lb (11.8 kg)
Construction	Aluminum rods, 3D-printed polymer, metal gear axles, wooden base, lazy Susan bearing
Power Supply	12 V DC battery, 12V→5V step-down converter
Controller	Raspberry Pi (TCP)
Communication	TCP protocol
CAMERA HEAD – PAN & TILT	
Pan Range	0° – 360° (continuous)
Tilt Range	–30° to +90° from horizontal
Pan Motor	1.9 Nm stepper motor
Tilt Motor	20 kg-cm servo motor
Max Camera Load	≈ 1 kg
Max Camera Width	140 mm
Mount Standard	1/4-20 UNC (universal)
HEIGHT ADJUSTMENT	
Vertical Travel	~10 inches (254 mm)
Mechanism	400 mm SFU1606 ball screw
Drive Motor	DC motor + driver
Subsystem Weight	~6 lb
DOLLY BASE	
Wheel Config	3-wheel (2 DC motor drive, 1 steering)
Drive Motion	Forward and backward via DC motors
Steering Range	±60° from forward trajectory
Steering Servo	20 kg-cm servo motor
Subsystem Weight	~12 lb

■ SAFETY NOTES

Use on flat surfaces only. Test the remote control system without a camera first to get familiar with the controls before mounting equipment. An electrical fuse protects against overload. Do not exceed 1 kg camera load. If the height mechanism makes abnormal sounds, power off immediately and contact support.

■ TEAM & CONTACT

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