

# STEADICAM<sup>®</sup>

## PHANTOM



THE NEW  
STEADICAM<sup>®</sup>  
PHANTOM

MAXIMUM CAPABILITY

MINIMAL INVESTMENT

HANDLES THE  
LARGEST CAMERAS  
AND ACCESSORIES

G SERIES G-70  
ISO-ELASTIC<sup>™</sup>  
STABILIZER ARM

ULTRA<sup>2</sup> VEST

NO COMPROMISE

MAXIMUM VALUE

# THE NEW PHANTOM



# THE NEW Phantom Includes:

- Camera Mounting Chassis (Sled)
- New Two-post Sled Design
- G-70 Stabilizer Arm
- 12-70 lb. (5-32kg) Capacity Dual Iso-Elastic™ Arm
- Ultra<sup>2</sup> Vest
- Standard 7" SD LCD -700 NITS Color Monitor
- Newly Engineered Low-friction Gimbal with "Blue Whale" Tool
- No-tools Tilt Head
- Dual Monitor Mounts
- Built-in Frameline
- On-screen Artificial Horizon
- NEW Steadicam PowerCube™ Battery System (Optional)
- Dual Battery Mounts
- Docking and Balancing Bracket
- Add-on Weights
- Hard Sled Case with Wheels
- Owner's Manual
- And Much More...



# Steadicam Phantom Professional Features

Tiffen takes great pride in introducing the Steadicam® Phantom, a low cost big rig that performs like the Ultra<sup>2</sup>. The base system starts with a 29 to 49 inch (74-125cm) telescoping carbon fiber post coupled to the Ultra<sup>2</sup> stage – with our patented  $\pm 20^\circ$  tilt head – and terminating in a new solid base. Outfitted with the Ultra<sup>2</sup> Gimbal, SD LCD Color 700 nit monitor, dual monitor mounts, frameline generator, on-screen artificial horizon, and a dual battery mount -12 and 24 volts (either V-Lock or Anton Bauer), the Phantom fills the need for a heavy duty, high performance, and low-cost rig. Also included is the G-70 Iso-Elastic™ Stabilizer Arm, Ultra<sup>2</sup> Vest, Docking and Balancing bracket, add-on weights, and the Steadicam® logo hard sled case with wheels.

Options include the patented “go-to” Motorized Stage (plug and play) and a variety of monitors, including the 8.4”, 1400 nit HD UltraBrite2, PowerCube™ system, plus batteries, chargers, cases, cables, vehicle mounts, and other professional accessories.

Like all our Steadicams, the Phantom is designed to be user-friendly, field-serviceable, tool-free, straightforward, and versatile so the operator can quickly and easily configure the rig to the best advantage for each shot. Change the sled length, balance, inertia, and go to low mode in a heartbeat, all without tools, extra parts, or fuss and bother. Solid, versatile, fast, with the Phantom it all happens like magic on the set.



Optional Gimbal with Remote Control.

On the stage, the **Wide Dovetail Lock** has a broader, more positive grip on the dovetail plate, and the handle has a safety stop to prevent accidental release.



The **Integral Tilt Head** preserves dynamic balance with the lens angled  $\pm 20^\circ$  – perfect for long mode or whip pans. The tilt head also maintains high or low lens heights, and helps with clearance, reach, or viewing problems.

The two section, carbon fiber **Telescoping Post** extends the sled from 29 to 49 inches (74-125cm) – or anywhere in between – for short to long mode shooting. Inside the post is Phantom's patented curly-cable™ system – with discrete, 12 and 24 volt lines for sustained high-amp capacity (14 gauge wires!), plus separate, dedicated and un-interrupted HDSDI and HD component coax cables, plus composite video in and out.

The Phantom uses the Ultra<sup>2</sup> **Gimbal** – the smoothest, most precise gimbal ever made, with heavy duty, high precision



bearings and an ergonomic yoke. It's easy to take apart for cleaning and it comes with its own tool – “The Blue Whale” – which operators can use to precisely center the gimbal in the field, even after years of hard knocks.

The **post, monitor and gimbal's Low-Profile Clamps** are either open and free, or positively locked, with a snap-over-centers clamping action. The clamp lever is ergonomically recessed into the clamp bodies, so nothing sticks out to catch on a cable.



The **Swept-Back Monitor Mount** is designed for maximum stiffness, inertial control, and viewing options. It now offers a wider range of positions, both vertically and horizontally, and the flip-to-low-mode dovetail mount is both quick and positive.

The Phantom's **Modular Electronics** provides a “backplane” system that replaces the traditional wiring harness and supports user-replaceable circuit boards. Microprocessors are software upgradeable. The new, smaller electronics box continues our exclusive narrow



sled design, a one button artificial horizon, and electronic frame line generator.

The **Structural Dovetail Base** solidly mounts gyros, Antlers™, or other accessories. There are two positive clamps for the battery rods and a pull out mounting plate for accessories.

The **Monitor** and the **Battery Pack** are adjustable in, out, and vertically over a wide range, giving the operators great choices for viewing, balance, and inertial control.



The **Tilting Battery Mount** can be angled over 180 degrees and creates additional options. Pan inertia can be adjusted from a super-whippy 130 pound inch<sup>2</sup> (0.9Mpa) to an amazingly stiff 1,434 pound inch<sup>2</sup> (9.9Mpa) – or even more if weights are added to the monitor or battery rods.

The exclusive new **Steadicam® Power-Cube™** is the most advanced battery pack available. Delivering 14.4 volts and 6150mAh each, a pair provides 240 watts high amperage discharge – plenty of power for the sled and today's



power hungry 35mm and High Def video cameras. In the standard mode, the sled is

powered by two batteries in series to create 24 volts and 12 volts via a 100 watt down converter. Flip the on-off switch in the other direction to power everything on one battery for a lightweight 12 volt mode. A simple wire change inside the battery holder enables paralleling the two batteries for very high amp draw, 12 volt cameras like the Panavision® Genesis™.

The Phantom system uses the **Ultra<sup>2</sup> Vest** – the best fitting and strongest “front-mount” style vest on the market. It begins with a super-stiff adjustable spar, “Double Vee” shoulder clips, improved padding, and over-center ratcheting buckles. Lightweight, unobtrusive and superbly ergonomic, the vest works perfectly with the new generation of G-series arms. And the Ultra<sup>2</sup> Vest still has the world's best quick-release system for safety.

The tool-free, super smooth **G-70 Arm** lifts from 12 to 70 lbs. (5-32kg),



yet is light-weight. The G-70's “Ride” knob alters iso-elasticity, so for the first time, users can precisely set how the arm behaves, regardless of the weight carried. The unique “Geo” feature alters spring geometry as it booms up and down to make the G-70 the smoothest, most well-behaved arm ever, throughout its

astounding vertical range of 29 inches (74cm)! The new tool-free arm post holder is quick and positive, and its independent drag control delivers the precise rotation resistance desired – from completely free to totally locked, even when changing posts. At the other end of the arm, the new ‘kick-back’ link reduces “doorway” clearance and keeps the arm from banging against the operator on the run.

*All of the above features are integral to the Phantom design; ready to be used when needed. The Phantom continues the Ultra™ tradition – as the most versatile and user-friendly Steadicam® ever made. It lets one operate with minimum effort and maximum precision for every part of every shot. The sled is configured as desired: short, long, whippy or slow. Operators can trim on the fly for each part of the shot and return to nominal with the push of a button. The Phantom is a cost-effective, heavy-duty “big rig” – the key to high-performance Steadicam® operating.*

# THE NEW PHANTOM



## Inertial control redefined (Phantom, I battery)

In the maximum configuration, the monitor is extended 17 inches (42cm) and the single battery pack 16 inches (41cm), creating a total of about 1,434 pound inch<sup>2</sup> (9.9Mpa) in the pan axis. Superb for windy conditions, shooting

architecture, and precise lockoffs. More inertia is possible with accessory weights, UltraBrite2 monitor, and/or the dual battery option.

In the minimum configuration, the monitor and battery are both extended 5 inches (13cm),

creating only 130 pound inch<sup>2</sup> (0.9Mpa) – about 11 times less angular resistance in the pan axis. It's great for action scenes, fights, and chases.

## Specifications:

### PHANTOM

Length	29 to 49 inches (74-125cm)
Monitor extension	5 to 17 inches (13-43cm)
Battery extension	5.5 to 16 inches (14-41cm) (2 battery mode)
Max pan inertia	2,564 pound inch <sup>2</sup> (17.7Mpa)
Min pan inertia (24 volts)	259 pound inch <sup>2</sup> (1.8Mpa)
Min pan inertia (12 volts)	139 pound inch <sup>2</sup> (1Mpa)
Sled with monitor (no batteries)	12 lbs (5.4kg)
Weight with 1 battery:	1.59 lbs (722g) (PowerCube)
Weight with 2 batteries:	3.18 lbs (1.4kg) (PowerCube)

### SLED WEIGHT

+ Battery weights PowerCube Example

### BATTERIES OPTIONAL (See PowerCube or Anton Bauer specs below.)

The Phantom can use either V-LOK or Anton Bauer battery mounts. The following specification example is with PowerCube batteries. Other batteries may produce similar results.

Battery power	Switchable, 24 or 12 volts
2x PowerCube (24 volts - optional)	240 Watt hours @ 28.8V nominal 14.4 volts (up to 100 watts) via downconverter
1x PowerCube (12 volts)	120 Watt hours @ 14.4V nominal
2x PowerCube, (parallel 12 volt mode)	240 Watt hours @ 14.4V nominal

### ULTRA<sup>2</sup> VEST

Operator height (compact vest also available)	65 to 80 inches (152-203cm)
Vest weight	9.5 pounds (4.3kg)

### G-70 ARM

Boom range	29 inches (74cm)
Lift capacity	2 to 70 lbs (5-32kg)
Iso-elastic™ range	Effortless to very centered
Weight with steel arm interconnect	11 lbs (5kg)



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