

STEADICAM®

PHANTOM-V™

THE NEW STEADICAM® PHANTOM-V™
CAMERA STABILIZING SYSTEM

SPECIALLY DESIGNED TO MEET THE
SPECIFIC AND DEMANDING NEEDS OF THE
PROFESSIONAL BROADCASTING INDUSTRY.



THE NEW STEADICAM® PHANTOM•V™ SYSTEM



- Compact post design and shortened battery rods help make the rig more maneuverable in tight places.
- Standard BNC connectors on all video related connection points including 3x dedicated video cable runs from the stage to the sled base allowing for HD video return feeds and video transmitter or recorder connection.
- Low profile nose box to help with lens clearance and 3D applications
- Integrated Tally IN/OUT connector in the nose box for remote mounting of the Tally LED on lens hoods or prompter for cueing talent. Additionally there is a HD BNC video input connector and auxiliary 3-pin LEMO® power connector to power prompters or other accessories
- Low 10 1/2 lb (4.8kg) sled weight (without batteries or monitor) allows for additional operator comfort
- Standard 800-7520 return monitor mount bracket and included 4.3", 16:9 SD LCD monitor is fully adjustable and able to mount on either the battery or monitor rods. An essential accessory for Live TV or multi-camera TV world

Phantom™ and Phantom-V™ Comparison Chart

Item	Phantom™	Phantom-V™
Post Extension	29-49" (74-125cm)	25-38" (64-97cm)
Dedicated Stage to Base BNC, HD video lines	1	3
Dedicated Stage to Base Composite video lines	3	1
Sled Base Video In/Out connector	RCA	BNC
Low Profile Stage Nosebox	n/a	Yes
Shortened Battery Rods	n/a	Yes
Motorizable Stage	Option	n/a
Return Monitor Mount with 4.3" 16:9 SD LCD Monitor	Option	Standard
Tally IN/OUT cable	n/a	Standard

THE NEW Steadicam® Phantom•V™ Includes:

- Camera Mounting Chassis (Sled)
- New Two-post Sled Design
- G-70 Stabilizer Arm
- 12-70 lb. (5-32kg) Capacity Dual Iso-Elastic™ Arm
- Ultra²® 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® or Anton Bauer® Battery Systems (optional)
- Dual Battery Mounts
- Docking and Balancing Bracket
- Add-on Weights (optional)
- Hard Sled Case with Wheels
- Owner's Manual
- And Much More...



Note - some items shown on this system may be option or must be obtained from another manufacturer.

Steadicam® Phantom-V™ Professional Features

Tiffen takes great pride in introducing the Steadicam® Phantom-V™ camera stabilizing system, a low cost big rig that performs like the Ultra²®. The base system starts with a 25 to 38 inch (64-97cm) telescoping carbon fiber post coupled to the Ultra²® stage – with our patented $\pm 20^\circ$ tilt head – and terminating in a new solid base. Outfitted with the Ultra²® 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-V™ fills the need for a heavy duty, high performance, and low-cost rig. Also included is the G-70 Iso-Elastic™ Stabilizer Arm, Ultra²® Vest, Docking and Balancing bracket, add-on weights, and the Steadicam® logo hard sled case with wheels.

Options include a variety of monitors, including the 8", 1000 nit Steadicam CineMonitor HD by TransVideo, PowerCube® batteries, chargers, cases, cables, vehicle mounts, and other professional accessories.

Like all our Steadicam® stabilizers the Phantom-V™ 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-V™ it all happens like magic on the set.



Nose Box Stage Connectors

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 25 to 38 inches (64-97cm) – or anywhere in between – for short to long mode shooting. Inside the post is a patented curly-cable system – with discrete, 12 and 24 volt lines for sustained high-amp capacity (14 gauge wires!), plus 3 separate, dedicated and uninterrupted HDSDI coax cables, plus composite video in and out.

The Phantom-V™ uses the Ultra²® **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.



Precision Gimbal Assembly with No-Tools Low Profile Clamp

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.

Phantom-V™ **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.



Sled Base Connectors



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.

The exclusive new **Steadicam® PowerCube®** 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 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 change enables paralleling the two batteries for very high amp draw, 12 volt cameras like the Panavision® Genesis®.

The Phantom system uses the **Ultra²® 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 Ultra²® 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-V™ design; ready to be used when needed. The Phantom-V™ continues the Ultra® tradition – as the most versatile and user-friendly Steadicam® stabilizing system 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. The Phantom-V™ is a cost-effective, heavy-duty “big rig” – the key to high-performance Steadicam® stabilizer operating.

THE NEW STEADICAM® PHANTOM-V™ SYSTEM

Specifications:

PHANTOM-V™

Length	25 to 38 inches (64-97cm)
Monitor extension	5 to 17 inches (13-43cm)
Battery extension	5.5 to 16 inches (14-41cm) (2 battery mode)
Sled with standard monitor (no batteries)	13 lbs (5.9kg)
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

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
1x PowerCube® (12 volts)	14.4 volts (up to 100 watts) via downconverter
2x PowerCube®, (parallel 12 volt mode)	120 Watt hours @ 14.4V nominal
	240 Watt hours @ 14.4V nominal

ULTRA2® 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	12 to 70 lbs (5-32kg)
Iso-elastic™ range	Effortless to very centered
Weight with steel arm interconnect	11 lbs (5kg)

Accessories:

StediPROMPT™

The StediPrompt™ Prompters have been specially designed for the Steadicam® Ultra2®, Phantom™, Phantom-V™ and Clipper™ rigs through the combined efforts of Listec™ innovation and Steadicam® engineering.

In the past Steadicam® operators had to adapt studio or portable prompters to their rigs. This was not always the best solution as some of these displays could be heavy or hard to handle. If the operator was renting the equipment there was no guarantee he would get the same unit each time.

The prompter is ideal for news programs, talk shows, sporting events, commercials and any other production where talent is on the move.

StediPROMPT™ features:

- Specially designed for the Steadicam® Ultra2®, Phantom™, Phantom-V™ and Clipper™ series
- Available in 8" and 10" LCD displays;
8"- SP-2008 • 10"- SP-2010

- Lightweight Prompter weighs only 6.5 lbs. (2.9 kg)
- Mounts with Camcorders, DSLR cameras, Broadcast and Digital Cinema Cameras
- Easy new rod mount assembly with folding hood and 65/35 coated mirror



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