

Specifications:

SHADOW™ & SHADOW™ 50

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)
Sled with standard monitor (no batteries)	13 lbs (5.9kg)

SHADOW™ V & SHADOW™ 50V

Length	25 to 38 inches (64-97cm)
Monitor extension	5 to 17 inches (13-43cm)
Battery extension	3.5 to 14 inches (9-36cm) (2 battery mode)
Sled with standard monitor (no batteries)	12 lbs (5.4kg)

SHADOW™ SERIES share the following specifications:

1 battery weight:	1.59 lbs (722g) (PowerCube®)
2 batteries weight:	3.18 lbs (1.4kg) (PowerCube®)

BATTERIES OPTIONAL

The Shadow™ series can use either V-LOCK 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

SHADOW™ & SHADOW™ V - ULTRA²® VEST

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

SHADOW™ & SHADOW™ V - G-70X ARM

Boom range	29 inches (74cm)
Lift capacity	12 to 70 lbs (5-32kg)
Iso-Elastic™ range	Effortless to center
Weight with steel arm interconnect	11 lbs (5kg)

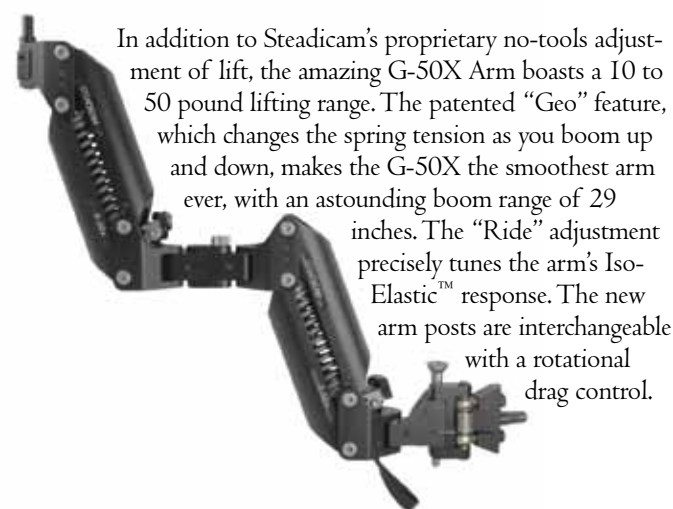
SHADOW™ 50 & SHADOW™ 50V - LX VEST

Operator height (compact vest also available)	65 to 80 inches (152-203cm)
Vest weight	8 pounds (3.6kg)

SHADOW™ 50 & SHADOW™ 50V - G-50X ARM

Boom range	29 inches (74cm)
Lift capacity	10 to 50 lbs (4.5-22.7kg)
Iso-Elastic™ range	Effortless to center
Weight with steel arm interconnect	8.6 lbs (3.9kg)

Lightweight, ergonomic and designed for increased operator control and comfort. Constructed of "dynamite" weather resistant black nylon. Features include an integrated lower back support pad for increased comfort, improved front waist support for a "flex-free" vest-to-arm interface, buckle indexing mechanism for quick, positive latching or unlatching, vertically adjustable wide stance chest plate, a stiffer central spar and two-position chest buckles to fit varying body sizes. Other critical features include a "sound stage-friendly" anti-squeak buckle design with new, "no-pinch" chest strap grips – all features working together to complement the capabilities of the G-50X arm.



STEADICAM® SHADOW™ SERIES



THE NEW STEADICAM® SHADOW™ SERIES CAMERA STABILIZING SYSTEM

MAXIMUM CAPABILITY

MINIMAL INVESTMENT

HANDLES THE
LARGEST CAMERAS
AND ACCESSORIES

G SERIES ISO-ELASTIC™
STABILIZER ARMS
G-70X/G-50X

ULTRA²® VEST

LX VEST

NO COMPROMISE

MAXIMUM VALUE



Shadow™ V/Shadow™ 50V Features

- 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 prompts for cueing talent. Additionally there is a HD BNC video input connector and auxiliary 3-pin LEMO® power connector to power prompts 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

Shadow™ Series Comparison Chart

Item	Shadow™ Shadow™ 50	Shadow™ V Shadow™ 50V
Post Extension	29-49" (74-125cm)	25-38" (64-97cm)
Sled with Standard Monitor	13 lbs. (5.9kg)	12 lbs. (5.4kg)
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
Motorized Stage	Option	n/a
Return Monitor Mount with 4.3" 16:9 SD LCD Monitor	Option	Standard
Tally IN/OUT cable	n/a	Standard

Shadow™ Series Arm and Vest Comparison

G-70X Arm/ Ultra ² ® Vest	Shadow™	Shadow™ V
G-50X Arm/LX Vest	Shadow™ 50	Shadow™ 50V

- Camera Mounting Chassis (Sled)
- New Two-post Sled Design
- G-70X/G-50X Stabilizer Arm
 - Dual Iso-Elastic™ Arm
- Ultra²® Vest/LX Vest
- 800 NIT HD/SDI/SD monitor
- Newly Engineered Low-friction Gimbal with “Blue Whale” Tool
- Docking and Balancing Bracket
- Add-on Weights
- Hard Sled Case with Wheels
- Vest Hard Case (optional)
- Owner’s Manual
- And Much More...



Shadow™ V shown (Actual Customer's Sled)

- No-tools Tilt Head
- Dual Monitor Mounts (“V”)
- Built-in Frameline
- On-screen Artificial Horizon
- NEW Steadicam PowerCube® Battery System (Optional)
- Dual Battery Mounts

Tiffen takes great pride in introducing the Steadicam® Shadow™ Series camera stabilizing system, a low cost big rig that performs like the Ultra². The base system starts with a 29 to 49 inch (74-125cm) (V-models 25-38 inch-64-97cm) telescoping carbon fiber post coupled to the Ultra² stage – with our patented ± 20° tilt head – and terminating in a new solid base. Outfitted with the Ultra² Gimbal, 800 NIT HD/SDI/SD 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 Shadow™ fills the need for a heavy duty, high performance, and low-cost rig. The Shadow™ and Shadow™ V include the G-70X Iso-Elastic™ Stabilizer Arm, Ultra² Vest (refer to charts for Series details), Docking and Balancing bracket, add-on weights, and the Steadicam® logo hard sled case with wheels.

Options for the Shadow™ include the patented “go-to” Motorized Stage (plug and play) and a variety of monitors, including the TransVIDEO 8” Monitor, PowerCube® system, batteries, chargers, cases, cables, vehicle mounts, and other professional accessories.

Like all our Steadicam stabilizers, the Shadow™ series 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 Shadow™ series it all happens like magic on the set.



Optional Gimbal with Remote Control. (Shadow™/Shadow™ 50)

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.



Shown Shadow™ /Shadow™ 50

The **Integral Tilt Head** preserves dynamic balance with the lens angled ± 20° – 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 Shadow™ series two section, carbon fiber **Telescoping Post** extends the sled from 29 to 49 inches (64-125cm) for the Shadow™, Shadow™ 50 and 25-38 inches (64-97cm) for the Shadow™ V, Shadow™ 50V – or anywhere in between – for short to long mode shooting. Inside the post is Shadow’s patented curly-cable system – with discrete, 12 and 24 volt lines for sustained high-amp capacity (14 gauge wires!), plus separate, dedicated and uninterrupted HDSDI and HD component coax cables, plus composite video in and out.

The Shadow™ system uses the Ultra² **Gimbal** - the smoothest, most precise gimbal ever made, with heavy duty, high precision bearings and an ergo-



nomie 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 Shadow’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.

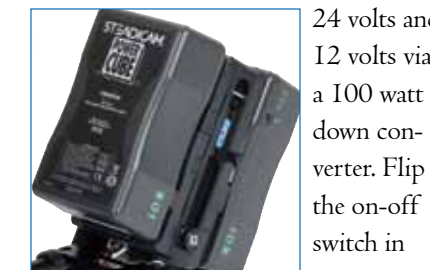
The **Structural Dovetail Base** solidly mounts gyros, Antlers™, or other accessories. There are two positive clamps for the battery rods and a pull out mounting plate for accessories.

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 I30 pound inch² (0.9Mpa) to an amazingly stiff I,434 pound inch² (9.9Mpa) – or even more if weights are added to the monitor or battery rods.

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 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 I2 volt mode. A simple change enables paralleling the two batteries for very high amp draw, I2 volt cameras like the Panavision® Genesis®.

The Shadow™ and Shadow™ V system use the **Ultra² Vest** (refer to charts for Series details) – 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-70X Arm** (refer to charts for Series details) lifts from I2 to 70 lbs. (5-32kg), yet is lightweight. The G-70X’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-70X 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 Shadow™ series design; ready to be used when needed. The Shadow™ continues the Ultra™ tradition – as the most versatile and user-friendly Steadicam® stabilizer 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 normal with the push of a button. The Shadow™ is a cost-effective, heavy-duty “big rig” – the key to high-performance Steadicam® camera stabilizer operating.