

STEADICAM®

Ultra²

THE NEW
STEADICAM
ULTRA²

THE LIGHTEST,
TOUGHEST,
STRONGEST
MOST ADVANCED
“BIG RIG” ON
EARTH WITH
28 REVOLUTIONARY
NEW FEATURES.
THE ULTRA² IS
USER-FRIENDLY,
TOOL-FREE,
MODULAR,
STRAIGHT FORWARD,
VERSATILE AND
FIELD SERVICEABLE:

THERE'S NOTHING
ELSE LIKE IT!

THE NEW ULTRA²

In its time, the Steadicam[®] Ultra was the most innovative rig anywhere. Its patented 4-part post, tilt-head, motorized stage, inertial control and tool-free operation were unprecedented.

“The new Steadicam Ultra² is flat-out amazing. . .”

– Larry McConkey

The Steadicam[®] Ultra²... Camera Stabilization Re-Defined

Speed:

Instant no-tools adjustment: 4-post extensions, preset trim marks, monitor angle and lo-mode flip, G-70 lift, ride and height, pan and tilt inertia, arm-post size and drag; plus tandem battery change; quick-access electronic menus, one touch level adjustment. Pre-wired, built in tally lights on the monitor and a plug-in sensor for the stage.

Precision:

Go-to motorized stage; inertial augmentation; tilt-head whip-pan dynamics; total rigidity; perfect gimbal centering; large, hi-res color UltraBRITE^{2™} image; framing and level control; advanced electronic artificial horizon.

Endurance:

Light, rigid arm, vest and sled; superb ergonomics; effortless lift; extreme hi-amp PowerCube[™] batteries.

Flexibility:

Diverse payloads, arm performance; sled configurations; inertial variations; voltage supplies; vest sizes; lens heights (floor-to-ceiling) and all film/video monitor formats including HDSDI and HD component.

Range:

Extreme post extension, arm lift, boom height; tilt-head angle; 10:1 inertial adjustment; operator sizes and shapes and exclusive high-draw PowerCube[™] batteries

Confidence:

Remote two-axis stage trim; soft arm stops and predictable hi/lo performance; positive over-centers clamps, accurate fit and finish, repeatable framing control.

Reliability:

Rugged, simple, modular construction; user disassembly; field replacement of components, hardware, wiring harness and backplane circuit boards.

Safety:

Vest quick-release; accident-proof post clamps, stage lock, dovetail plate, monitor brackets, accessory adaptors, vest plate and battery mount.

Value:

Cost-effective; brand recognition and worldwide resale

THE NEW ULTRA²

- New G-70 'Geo' Arm with Adjustable Lift & Ride
- New Lightweight Ultra² Support Vest with Steel Socket Block
- HDSDI UltraBRITE²™ Color HD Monitor
- New Open Ultra-Rigid Stage
- Programmable "Go-To" Trim Motors
- Auto-Centering Stage Trim
- Ultra High-Precision Gimbal
- Positive Locking New Low-Profile Post Clamps
- Ultra-Rigid Swept Back Monitor Bracket
- 10:1 Inertial Adjustment Range
- New Steadicam PowerCube™ Battery System
- All New Electronics with Backplane and Removeable Circuit Boards
- Software Upgradeable
- Field Serviceable
- And Much More...



THE NEW ULTRA²

The Tiffen Company takes great pride in introducing the world's most advanced Steadicam[®], the Ultra².

We are committed to excellence, innovation and service, and the Ultra² is a system that will evolve with you. User-friendly, field-serviceable, tool-free, straightforward and versatile, the Ultra² empowers your operating skills as never before. Each component is designed so the operator can quickly and easily configure the Ultra² to the best advantage for each shot.

Steadicam ULTRA² Features:

Tool-Free our guarantee that all the Ultra²'s advanced features can be used under real-world, fast-paced conditions without fumbling for tools.

Modular Design we designed the Ultra² to be easily modified, upgraded, maintained, and serviced.

The **G-70 Arm** is simply amazing. Lightweight – 11 lbs – and hand-adjustable, it lifts from 12 to 70 pounds. The new '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 you boom up and down to make the G-70 the smoothest, most well-behaved arm ever, throughout its astounding vertical range of 32 inches! The new tool-free arm post holder is quick and positive, and its independent drag control delivers the precise rotation resistance you want – from completely free to totally locked, even when you change posts. At the other end of the arm, the new 'kick-back' link reduces your "doorway" clearance and keeps the arm from banging against you on the run.

The **Position Sensing, Ultra Rigid, Motorized Stage** increases the precision

and repeatability of every shot. Stage positioning is smooth and effortless, with a greater fore and aft and



side to side range than ever; and operators can trim the sled's balance on the fly. "Go-to" buttons on the gimbal remote rebalance the sled to pre-determined positions and return "home" with just one touch. Electronics are on cards, with no wiring harnesses, easy upgrades – plug and play.

The new, **Wide Dovetail Lock** has a

broader, more positive grip on the dovetail plate. The handle has a safety stop to prevent accidental release.



The **Integral Tilt Head** tilts +/- 20° to



preserve dynamic balance, to maintain high or low lens height, to help with clearance, reach, or viewing problems, or to execute precise whip pans with the lens angled up or down.

The **Ultra² Gimbal** is the smoothest, most precise gimbal ever made, with heavy duty,



high precision bearings and an ergonomic yoke, and it's easy to take apart for cleaning. 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 new, positive, low-profile clamp blends into the handle for a better operating grip.

Four Section, Carbon Fiber Telescoping Post extends the sled from 26 to 72 inches

– or anywhere in between – for short to long mode shooting, floor to ceiling! Inside the four posts, the Ultra²'s patented curly-cable system comes standard with discrete, 14 and 28 volt lines with sustained high-amp capacity (14 gauge wires!), plus separate dedicated un-interrupted HDSI and HD component coaxes, composite video in/out, and communications lines.



Detail of Kick-Back Link



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



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

The **Modular Electronics** with “back-plane” system replaces the traditional wiring harness with user-replaceable circuit boards. Microprocessors are software upgradeable. The new, smaller electronics box continues our exclusive narrow sled design and adds a sloped front connector panel, a one button artificial horizon, multi-select volt/amp display, and electronic frame line generator.

Structural Dovetail Base solidly mount gyros, antlers, and other accessories. Includes positive latches for the battery rods and a pull out mounting plate for accessories.

UltraBRITE²™ monitor 8.4 inch, 1400 nits bright, advanced AR coating, and HDSDI, HD component, and analog composite direct inputs, with quick access to the most commonly used functions – framelines, level, brightness, and contrast. On the front is an LED artificial horizon display in all modes, and two built-in, pre-wired tally lights.

The exclusive, new **Steadicam PowerCube™** is the most advanced battery pack available. Delivering 14.8 volts and 6.0Ah each, a pair provides 220 watt hours with 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 downconverter. 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 new **Tilting Battery Mount** can be angled over 180 degrees, creating additional options for balancing and inertial control. Rotate up for most work, down for very heavy cameras, or out for maximum inertia.

The **Ultra² Vest** is simply the best fitting and strongest “front-mount” style vest ever. It begins with a super-stiff adjustable spar, “Double Vee” shoulder clips, improved padding and new over-center ratcheting buckles. Lightweight, unobtrusive and superbly ergonomic,



the vest works perfectly with your body and with the new generation of G-series arms. And we did not compromise your safety. The Ultra² Vest still has the world’s best quick-release system.



All of the above features are integral to the Ultra² design; ready to be used when you need them. The Ultra² continues the Ultra™ tradition – it’s the most versatile and user-friendly Steadicam® ever made. It lets you operate with minimum effort and maximum precision for every part of every shot. You configure the sled the way you want: short, long, whippy or slow. You can maintain dynamic balance, trim on the fly for each part of the shot and return to nominal with the push of a button. The Ultra² is the lightest, toughest, most precise heavy-duty “big rig” ever made, and it’s your key to high-performance Steadicam operating.

We, the undersigned Inventors, Designers, Operators and Representatives are pleased to offer you our dream machine—now a reality—for Steadicam Operators and their clients, worldwide.

Garrett Brown, Robert Orf, Jerry Holway, Frank Rush, Robin Thwaites, Peter Abraham and the proud Tiffen/Steadicam Team

THE NEW ULTRA²



Inertial control redefined

In the maximum configuration, the monitor is extended 17 inches and the battery pack 16 inches, creating a total of about 2,564 pound inch² in the pan axis. That's about twice as much

pan inertia as the maximum on the original Ultra – superb for windy conditions, shooting architecture, and precise lockoffs.



In the minimum configuration, the monitor is extended only 5 inches and battery 5.5 inches, creating 259 pound inch² – about 10 times less angular resistance in the pan axis. It's great for action scenes, fights, and chases.

Specifications:

ULTRA² SLED

Length	28 to 72 inches
Monitor extension	5 to 17 inches
Battery extension	5.5 to 16 inches (2 battery mode)

Max pan inertia	2,564 pound inch ²
Min pan inertia (24 volts)	259 pound inch ²
Min pan inertia (12 volts)	139 pound inch ²

Sled with monitor (no batteries)	17 lbs 13 oz
Weight with 1 battery:	+ 1.65 lbs
Weight with 2 batteries:	+ 3.3 lbs

BATTERY

Battery power	Switchable, 24 or 12 volts
2x PowerCube (24 volts)	220 Watt hours @ 29.6V nominal 14.4 volts (up to 100 watts) via downconverter

1x PowerCube (12 volts)	110 Watt hours @ 14.8V nominal
2x PowerCube, (parallel 12 volt mode)	220 Watt hours @ 14.8V nominal

ULTRA² VEST

Operator height (compact vest also available)	65 to 80 inches
Vest weight	8 pounds

G-70 ARM

Boom range	32 inches
Lift capacity	13 to 70 pounds
Iso-elastic range	Effortless to very centered
Weight with steel socket block	11 lbs