

STEADICAM[®]

CLIPPER 312 & 324

THE NEW
STEADICAM
CLIPPER 312 & 324
CAMERA STABILIZING
SYSTEMS

CREATED FOR TODAY'S
HIGH-END VIDEO AND
FILM PRODUCTION



THE NEW Steadicam Clipper 312 & 324



(TOP) Tool-free "Ride" and weight-balance control with exclusive lightweight honeycomb arm construction and titanium spring.

(ABOVE) Optional motorized stage and remote control.

(BELOW LEFT) Side-mounting drop-in professional tilt stage with micro-precision drive for precise fore-aft and side-to-side balancing. New integral tilt-head pivots the camera without having to tilt the post.

(BELOW, RIGHT) Dual batteries in normal "up" position.

The Tiffen Company takes great pride in producing the Steadicam Clipper 312 and Clipper 324.

The new Steadicam Clipper series offers a host of innovative features that have been carefully designed so the operator can easily configure their Steadicam to the best possible advantage for each shot.

Sled:

The super strong camera mounting stage increases the precision and repeatability of every shot. Stage positioning is smooth and effortless, and with the optional, position-sensing motors, operators can trim the sled's balance while shooting. "Go-to" buttons on the remote rebalance the sled to pre-determined positions - and return "home" - with just one touch.

The integral tilt head tilts +/- 15° 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 new Wide Dovetail Lock has a broader, more positive grip on the dovetail plate. The handle has a safety stop to prevent accidental release.

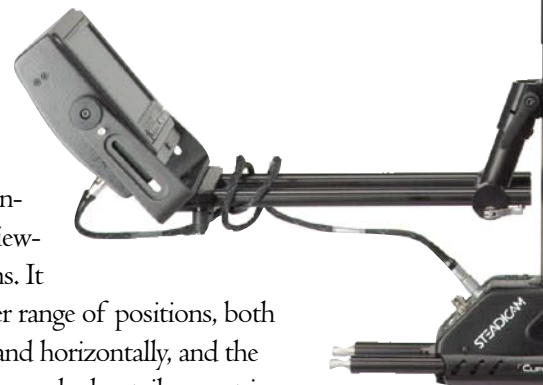
The Clipper's gimbal is the smoothest, most precise gimbal ever made,

with heavy duty, high precision bearings and an ergonomic yoke, and it's easy to take apart for cleaning. The Blue Whale is an optional tool that operators can use to precisely center the gimbal in the field, even after years of hard knocks.

The three-section, carbon fiber telescoping post extends the sled from 26 to 49 inches – or anywhere in between – for short to long mode shooting. The post, monitor, and gimbal clamps are either open and free, or positively locked with the clamp levers ergonomically recessed into the clamp bodies.

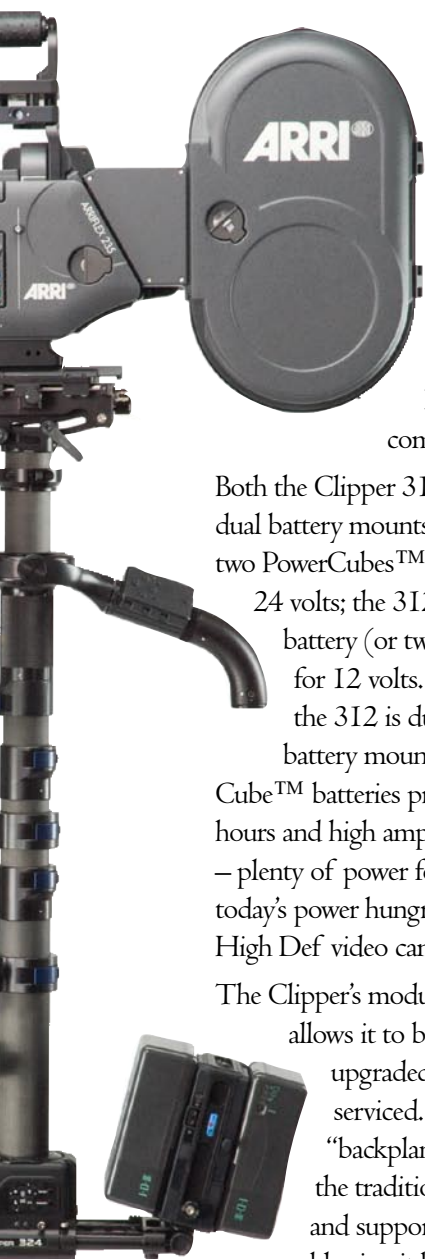
The swept-back monitor mount is designed for maximum stiffness, inertial control and viewing options. It has a wider range of positions, both vertically and horizontally, and the flip-to-low mode dovetail mount is both quick and positive.

The Clipper's standard 7", 16:9 monitor is bright enough to be seen in full daylight (700 nits). Also available are the optional 8.4" HD Ultrabrite²™



*The Steadicam
Clipper for composite,
high-definition,
and film production.*





monitor (1400 nits, HDSDI, HD composite) and a 7" 16:9 HDSDI and composite monitor.

Both the Clipper 312 and 324 have dual battery mounts. The 324 uses two PowerCubes™ in series for

24 volts; the 312 uses one battery (or two in parallel) for 12 volts. An option for the 312 is dual Anton Bauer battery mounts. Two PowerCube™ batteries provide 220 watt hours and high amperage discharge – plenty of power for the sled and today's power hungry 35mm and High Def video cameras.

The Clipper's modular design allows it to be easily modified, upgraded, maintained and serviced. In addition, a "backplane" system replaces the traditional wiring harness and supports user-replaceable circuit boards. Microprocessors are software upgradable. Quick access to the most commonly used functions – framelines, level, brightness, and contrast.

The structural dovetail base solidly



mounts gyros, Antlers™, and other accessories. It includes positive latches for the battery rods and a pullout mounting plate for accessories.

Arm:

In addition to Steadicam's proprietary no-tools adjustment of lift, the amazing G-50 Arm boasts a 12 to 50 pound lifting range. The patented "Geo" feature, which changes the spring tension as you boom up and down, makes the G-50 the smoothest arm ever, with an astounding boom range of 32 inches. The "Ride" adjustment precisely tunes the arm's Iso-Elastic response. The new arm posts are interchangeable with a rotational drag control.

Vest:

The LX Vest is lightweight and ergonomic and has been designed for increased operator control and comfort. It is 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-50 arm.



(TOP) New LX Vest with greater operator comfort and control.

(ABOVE) G-50 dual-articulated Iso-Elastic™ Arm with "Geo" and new "Ride" control.

(LEFT) Battery in "down" position for higher lens heights or shorter post.

THE NEW Steadicam Clipper 312 & 324

Clipper 312 & 324:

- Camera mounting chassis (sled)
- Low friction gimbal
- Carbon fiber 3-section post
- Owner's manual
- Battery mounts available:
 - Dual IDX V-mount (324 and 312)
 - Dual Anton Bauer (312 only)
- 35 lb net camera capacity
- Long dovetail plate
- No-tools arm post clamp
- Color LCD monitor, 700 nits - 16:9
- Dynamic spin and docking bracket
- Wheeled sled hard case
- Soft case for the arm and vest
- Lightweight LX vest
- T-handle Allen wrench
- Mounting screws 1/4-20 and 3/8-16

Stage with Tilt Head:

- Heavy-duty, wide-set bearings for vibration-free shooting
- Side-mounting drop-in professional tilt stage
- Micro-precision drive for precise fore-aft and side-to-side balancing
- Professional connectors:
 - BNC for HD/SDI
 - BNC for composite video
 - 3-pin LEMO for camera power
 - Tally light connector
 - 3-pin LEMO for focus motor systems
 - HRS power and video out for transmitters
- Extended dovetail plate
- Lever type dovetail clamp
- Nose box for professional accessory mounting (focus motor amps, etc.)

LX Vest:

- New rugged design using key components from our top-of-the-line series to produce a durable, comfortable, and superbly functional vest.
- Incorporates a wide stance chest plate with quick release shoulder buckle mechanism.
 - Buckles can be independently locked
 - Unique buckle indexing mechanism allows you to easily locate, latch, or unlatch the over shoulder buckles
 - Fully vertically adjustable chest plate with two-position chest buckles to help fit various body sizes
 - All vest fabric made from durable high-quality "dynamite" weather-resistant black nylon
 - Integrated positional lower back pad for added comfort
 - Upgraded and improved front waist support band for a "flex free" vest-to-arm interface
 - New "sound stage friendly" anti-squeak chest and waist buckle design
 - New "no pinch" chest strap grips designed for added comfort

G-50 Arm:

- "Geo"—revolutionary design extends Iso-Elastic™ response curve
- "Ride"—knob adjustable control of Iso-Elastic™ response
- 32" boom range
- Super smooth response throughout entire weight range
- 10–50 lb capacity

Options:

- HD UltraBrite monitor
- HD/SDI Brite monitor

Clipper 312 & 324 equipped with optional HD monitor:

- 8.4" color LCD
- 1400 nits
- HDSDI
- HD Component
- Composite NTSC/PAL/SECAM
- VGA/SVGA and SVHS

Clipper 312 & 324 equipped with optional HD/SDI monitor:

- HD/SDI color 7" monitor
- Framepoints
- NTSC/PAL composite
- Tally indicator

Options:

- Battery packages—charger and batteries
- Steadicam PowerCube™ Battery System
- Tool kit in case with Steadicam logo
- Steadicam sand bags
- Cable kits
- Low mode kit
- Matching arm/vest hard case
- Heavy duty docking and balance stand
- Go-to motorized stage (one or two motors)
- Artificial horizon

Unique features:

- High-definition capable
- Virtually no-tools operation
- High-definition video capable
- Affordable cost
- G-50 dual 32" boom articulating Iso-Elastic™ Arm
- Modular construction
- Slim 3.38" sled width
- New design LX Vest
- Universal monitor mounting bracket
- "Ride" and "Geo"
- Frameline generator (standard)

Clipper 312 and Clipper 324 are trademarks of The Tiffen Company. Covered by U. S. patents 5,435,515 and 5,360,196 and pending foreign patents. Additional patents pending. Steadicam reserves the right to change specifications without prior notice.



(TOP) Optional 7" HDSDI and composite monitor.

(ABOVE) Clipper 324 extended mode



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