



# User Manual

**Operational Instructions & Specifications** 

User Manual Operational Instructions & Specifications

Edition 2



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#### Hybrid IV User Manual

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The Operator should be qualified to operate equipment as expressed in this manual.

For assistance please call our 24-hour Customer Service.

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# Contents

Specifications	10
Line Drawings & Dimensions	12
Geometry Lever	14
Shifting Modes	16
Steering Modes	18
Tracking Bar & Bracket	19
Feathering Levers	20
Arm Markers	22
Fast Mode	23
Detent Bypass	24
Float Mode	25
Charging the Dolly	26
Control Valve & Gauge	28
Hybrid Brakes	29
Leveling Head Choices	30
Indexed GQ Leveling Head with Cam	32
Attaching Boards in Lower Walk Around Mode	33
Attaching the Side Boards	34
Attaching the Adjustable Front Board	35
Upper & Lower Board Setup Modes	36
Side Board Configurations	37
Accessories	40

Storing the Accessories	42
Quick Release Wheel Locks	43
Chapman Quick Jack	44
Maintenance	46
Optional Accessories	47
Packing the Dolly	48
Technical Help	50
Shipping & Rental Return	51

### Hybrid IV Specifications

The Hybrid is capable of three different steering modes. In **Conventional Mode**, the rear wheels pivot as the operator makes a tracking turn. In **Crab Mode**, all wheels turn in unison enabling the dolly to be moved in any direction while maintaining the orientation of the camera plane. In **Round Mode**, the dolly can turn while remaining in the same spot.

**Steering Modes** can be selected by twisting the steering handles. Control Pins can be set to limit which modes can be selected during critical moments, ensuring the operator can make transitions with confidence.

The Universal Stop Valve controls arm movement **with smooth feathered stops.** Adjustments to the Universal Stop Valve can be made without tools or the need to remove any covers or access plates. Feathering Levers are located below the Steering Controls, within the operator's reach for ease of use.

The arm is a new design with greater **rigidity**, **smoothness**, **speed and quietness** of operation. **Six full strokes** of the arm is possible with a single charge. A new **tire design** has dramatically reduced friction for smoother rolling shots. Tires can be matched to various track configurations.

The Side Board System provides complete **walk-around-capability** on the Dolly in both high and low level setups.

The Hybrid III has a built-in heat control system in the hydraulic system to maintain a minimum hydraulic oil temperature of 70°F. This maintains optimum performance in even the coldest environment.



The Hybrid IV in Low Profile Mode with attachments removed for shipping or storage. With the deck controls removed there is no interference for 360° pan shots.

Minimum Camera Mount Height	19 in.	48.3 cm
Maximum Camera Mount Height	62 in.	1.57 m
Vertical Boom	43 in.	1.09 m
Minimum Camera Mount Height (Low Plate Setup)	4 in.	10.2 cm
Maximum Camera Mount Height (Low Plate Setup)	64 in.	1.63 m
Maximum Load Capacity with Accumulator Charge @ 3100psi	700 lb	317.5 kg
Maximum Capacity of GQ Head with Strut Attached to Head	350 lb 700 lb	158.8 kg 317.5 kg
Maximum Number of Lifts on a Single Charge		6 Lifts
Carrying Weight (without Wheels, Head and Steering Column)	395 lb	179 kg

### Line Drawings & Dimensions Diagram

Stripped Down Carrying Weight	395 lb	180 kg
Maximum Payload with Strut Attached	700 lb	317.5 kg

880mm Track Configuration Legs are set at 80 degrees Standard Track Configuration Legs are set at 12 degrees Compact & Narrow Track Configuration Legs are set at 0 degrees



Top View of Leg Configurations

90° Low Profile Extension







#### **Geometry Lever**

Configuration

A sticker is mounted near the Geomerty Lever as a reminder.



#### **Geometry Lever**

The Geometry Lever changes the angles of wheel orientations to each other when special configurations are chosen. This allows positive tracking of the wheels in all situations.

The lever has two positions. Before the Geometry Lever is moved, the transmission must first be shifted into the Crab Mode. When the front wheels are in the  $0^{\circ}$  or  $10^{\circ}$  positions, the Geometry Lever must be moved to the left toward the center line of the Dolly (Inboard). When the front wheels are at any other positions, the Geometry Lever must be moved to the right (Outboard).



# Wall Hugger Configuration

The Asymmetrical profile of the Wall Hugger Configuration allows camera placement close to a wall or structure while maintaining a more stable platform for the Operator.



Steering must be in Crab Mode to change between setups.

Set legs to desired configuration.

Shift the Geometry Lever to match the leg configuration.

Tip: Use the QuickJack to help make quick leg changes.

Setup	Leg Positions	Geometry Lever	Comments
Standard EURO Track	80° All Legs	Lever All Other	880mm Track-Dolly Sideways
Standard Track	12.9° All Legs	Lever 12°	24 1/2" Track
Narrow Profile	0° All Legs	Lever 0°	Through Doorways
Compact Profiles	180° Front Legs (Standard Tires) 168° Front Legs (Pneumatic Tires) 0° Rear Legs (Standard Tires) 12° Rear Legs (Pneumatic Tires)	Lever All Other	Smallest Footprint
Wall Hugger	90° Right Legs (Away from Wall) 0° or 180° Left Legs (Next to Wall)	Lever All Other	Asymmetrical Crab & Round Mode Only (Leg Orientations can be reversed)

# Shifting Modes

Hybrid IV



#### Shifting Modes

The Hybrid IV is capable of three different steering modes. In **Conventional Mode**, the rear wheels pivot as the operator makes a tracking turn. In **Crab Mode**, all wheels turn in unison enabling the Dolly to be moved in any direction while maintaining the orientation of the camera plane. In **Round Mode**, the Dolly can turn while remaining in the same spot. The operator can select any mode by twisting the Steering Handles. Control Pins can be set to limit which modes can be selected during critical moments, ensuring the operator can make transitions with confidence.

- 1. Shift fully to clear the steering lock position. (Halfway between Crab/Conventional or Crab/Round
- 2. Twist the Handle gently to shift into Round, Crab or Conventional Modes.

If the transmission still won't shift, repeat step 1.

When attaching the Steering Column to the Dolly, the Lockdown Collar should be tightened by hand only. Never use pliers or channel locks on any part of the Dolly. Note: Steering Column MUST be in Locked Position



## **Steering Modes**



#### **Conventional Steering Mode**

The Conventional Steering Mode is rear controlled steering. The Hybrid IV can be shifted smoothly into either Round or Crab Steering Modes during the course of a shot, even while moving. Steering Control Pins (see page xx) aid the Grip in making the desired transitions with confidence.

#### **Round Steering Mode**

The Round Steering Mode is a new feature of the Hybrid IV. The Dolly can now be turned completely within its own space, making it an ideal choice for tight locations.



#### **Crab Steering Mode**

The Crab Steering Mode is the selection used most often by experienced Grips. It gives them more control moving the Dolly instantly in any direction. The camera lens maintains its orientation to the picture plane, ensuring a steady shot without unwanted panning.

# Tracking Bar & Bracket

#### To Remove Tracking Bar & Steering Column together:

- 1. Loosen the knob at the top of the shifting rod
- 2. Loosen the collar at the bottom of the shifting rod
- 3. Simply lift out, and place aside

This is useful when shooting 360° scenes and for transportation purposes

#### To Remove Tracking Bar ONLY

- 1. Loosen Scews A & B
- 2. Loosen Screw C
- 3. Separate the two parts and lift tracking bar out of position



#### **Feathering Levers**

Configuration

#### Warning!

There are stops on both sides you don't want to keep ratcheting once you reach the stop. Failing to do so will result in a oil leak.

The **Universal Stop Valve** regulates the speed and smoothness of the arm deceleration to a selected stop. The Feathering Levers are located to either side of the Steering Handle. They are used for fine tuning the operation of the Universal Stop Valve. The arm will move to the upper and lower Stops that the operator has designated, instead of the factory settings. This also ensures that the arm does not "Bottom-Out" when lowered to the Chassis.

The **UP Feathering Lever** is located to the right (standing at the rear of the Dolly). Pushing the Lever in to engage, then moving the Lever **Back** (ratcheting) allows the arm to travel further up (Maximum Arm Height). Moving the Lever **Forward** (ratcheting) limits the arm travel height.

The **DOWN Feathering Lever** is located to the left. Pushing the Lever in to engage, then moving the Lever **Back** (ratcheting) limits the arm movements lowest position. Moving the Lever **Forward** (ratcheting) allows the arm to travel to a lower position (Minimum Camera Height). DOWN







#### When making Stop Adjustments:

- 1. Be certain the arm is well beyond the desired stop point. Then turn the Lever in beyond the desired stop point.
- 2. Open the Main Control Valve to approach the desired stop.
- 3. Open Lever to achieve movement until the desired stop point is reached.
- 4. Close the Main Control Valve.

For rapid deceleration beyond the normal for this system, the Dolly Grip can use the Stop Valve to initiate the stop then finalize the stop with the Main Control Valve.

#### Arm Markers

Colored Velcro Markers attach to the Arm (Upper and Lower). They can be repositioned to different locations on the Arm as a visual aid in repeating an Arm movement.

The Arm travels on a vertical line, eliminating focus problems on extreme close ups. Precise, repetitive Stops are possible at all speeds. An improved Stop Valve System allows even faster, smoother stops.

A variety of options are available to the Grip when using the Control Valve. A Single or Double Detent can be set on the Hybrid IV. This is usually set at the Chapman facility. However, it is a simple adjustment that can be performed in the field by a qualified technician.





#### Fast Mode

#### Warning!

Before activating the Fast Mode feature, place the Control Valve in Neutral position. Failure to place the Control Valve in the Neutral position may cause the arm to drop unexpectedly into the chassis.

A new feature of the Hybrid IV enables lowering the hydraulic arm when there is a small payload, or no payload to push the arm down when the control value is opened. The Fast Mode Value is located on the rear left side of the Hybrid IV. It is a by-pass of the Universal Stop Valve. During normal operation, the Fast Mode Valve is not used. The dial should be placed on the Normal Mode setting.

After the Fast Mode is activated, the Control Valve may again be used to raise and lower the arm quickly.



Note: When on Fast Mode, feathered stops of the Universal Stop Valve are deactivated. Therefore, if a situation calls for moving past a feathered stop, close the Control Valve (neutral position) and activate the Fast Mode Valve. The arm may then move past the upper & lower feathered stops without having to readjust their positions.

# **Detent Bypass**



New to the Hybrid IV dolly is the ability to eliminate the detent feature of the Control Valve Handle. Pulling out the knob turns off the detent feature. There are only two options; fully engaged or fully disengaged.

The Detent Bypass is **ON** when the button is pushed **IN**. It is **OFF** when the button is pulled out.

#### Float Mode

#### Warning!

Before activating the Float Mode feature, place the Control Valve in the Neutral position. Failure to place the Control Valve in neutral position may cause the arm to drop unexpectedly into the chassis.

A new feature of the Hybrid IV dolly is the ability to fine tune how the arm reacts to the Control Valve Handle. The default setting is for a detent zone of 5/16 inch in either direction. This zone can now be adjusted down to zero.

Located just below the Detent Bypass knob, the Float feature causes the arm to react instantly to a change iin direction in moving up or down.



Note: When activating the Float Mode, the normal Detent or Dead Zone of the valve is eliminated. The motion of the Arm is now reverse direction without hesitation. Therefore, the Float position is achieved. Additionally, the Grip can select their own detent as preferred for a smoother transition from an upward or downward direction. Charging the Dolly Electronics

For Optimal Safety: Only use a three (3) prong plugged extension cord to maintain an effective electrical ground.



A Female Plug can be inserted into the AC Receptacle (110v or 220v) located at the rear of the Dolly. Push the start button to begin automatic charging. The unit will stop charging when the Dolly Hydraulic System is fully charged.

- 1 Start Button
- 2 Plug Receptacle

Do not attempt maintenance of the Dolly when it is plugged into an electrical outlet.

Charging the Dolly Manual

Do not attempt maintenance of the Dolly when it is plugged into an electrical outlet.



Insert the Valve Control Handle into the Hand Pump Receptacle. Approximately 60 full strokes are needed to fully charge the Dolly system to 3100 psi. This pressurizes the nitrogen in the accumulators, which in turn moves the oil through the Hydraulic System. The Valve Control Handle doubles as a charging handle when it is inserted into the Foot Pump.

#### Control Valve & Gauge Configuration

The Control Valve regulates the movement of the arm. A fully charged system will read 3100 psi on the Pressure Gauge. This is enough pressure to enable 5 to 7 full strokes/lifts of the payload (camera). Total Payload = 700 lbs. @ 3100 psi.

The Control Valve Handle has an adjustable detent system. Nothing happens in the Detent Zone. This clearance of 5/16 inch can be adjusted down to zero. In the Adjustable Detent Control System this can be felt as the handle is rotated and gives the Grip more control over the arm as it transitions between up and down movements. The **off** position is between the detents.

A special Single or Triple Detent Control System is available, but must be installed at the Chapman facility or by a qualified technician.

As a safety feature, the Relief Valve will open automatically at 3500 psi.

![](_page_27_Figure_6.jpeg)

Hybrid Brakes

Brakes on each of the rear wheels hold the Dolly stationary between planned moves. The Wheel Locks are not intended for stopping the Dolly while in motion.

The Hybrid IV should always be held in place with blocks or wheel chocks when on any kind of incline.

# Leveling Head Choices

Assembly

![](_page_29_Picture_3.jpeg)

Hi/Lo 90 Degree Plate Under Slung with Leveling Head Flipped.

Remove Quick Release Pin.

Hi/Lo 90 Degree Plate Over Slung.

Replace Quick Release Pin and Tighten Nut.

### **Other Leveling Head Options**

![](_page_30_Picture_2.jpeg)

The same set up as shown above, but with the Leveling Head in the normal up position.

![](_page_30_Picture_4.jpeg)

Hi/Lo 90 Degree Plate Under Slung with 7 in. extension, seat and foot rest.

![](_page_30_Picture_6.jpeg)

The default position for the Cam Indexed GQ Head.

![](_page_30_Picture_8.jpeg)

The payload on the GQ Head can be increased to 700 lb if the Support Strut is in place.

#### Indexed GQ Head with Cam Configuration

![](_page_31_Picture_2.jpeg)

The Indexed GQ Leveling Head with Cam on the Hybrid IV is designed to minimize backlash and provide a rigid offset camera mount.

Push down on the lever to disengage the locking pin. Hold the lever down and turn the leveling Head to any of the 20 positions (every 18 degrees). Release the Lever and the spring loaded pin locks the head into place.

![](_page_31_Picture_5.jpeg)

The Leveling Head can be made to freely rotate by depressing and holding the Lever, and then pushing the Cam Lever Button on the side. The Head will now rotate without locking into position.

![](_page_31_Picture_7.jpeg)

Leveling bubbles on either side of the leveling head enable precise leveling of the camera/payload.

Now the leveling knobs can be adjusted to keep the leveling head level.

![](_page_31_Picture_10.jpeg)

The Leveling Head is ready for operation when all four leveling knobs are in contact with the Mitchell Mount above. They should all be equally tightened by hand.

# Attaching Boards in Lower Walk Around Mode

![](_page_32_Picture_2.jpeg)

![](_page_32_Picture_3.jpeg)

The Narrow Side Boards attach to either side of the Hybrid IV. They slide into place and are secured to the chassis with two thumb screws. As shown in this picture.

The Narrow Side Boards are right and left specific. They are not interchangeable from one side to the other. The procedure for setting up the Standard Side Boards is the same. They are shown here being attached in the Low Mode Setup. The Standard Side Boards attach to either side of the Hybrid IV onto the Narrow Side Boards and they are interchangeable. They slide into place and are secured to the chassis with two thumb screws. The Wide Corner Board slides onto the Front Standing Board with fixed rods. It is supported by a Tab that connects to the Standard Side Board.

# Attaching the Side Boards Setup

![](_page_33_Picture_2.jpeg)

The Standard Side Boards are designed to be interchangeable. There is no left or right version.

The Standard Side Boards are also adjustable for and aft on the Hybrid IV chassis. A large knob secures the board to the desired location.

![](_page_33_Picture_5.jpeg)

The Side Boards may be moved to the rear of the Dolly for easy access to the front thumb screw. Then move the board forward to access the rear thumb screw.

#### Attaching the Adjustable Front Board Setup

![](_page_34_Picture_2.jpeg)

![](_page_34_Picture_3.jpeg)

The Adjustable Front Board attaches with latches to the grooved pins.

![](_page_34_Picture_5.jpeg)

the Lift Pins in place.

![](_page_34_Picture_6.jpeg)

The Adjustable Front Board can be easily configured from high to low without removing the board.

T

A Quick Release Pin secures the Adjustable Front Board in either the upper or lower position.

![](_page_34_Picture_10.jpeg)

#### Upper and Lower Board Setup Modes Setup

![](_page_35_Picture_2.jpeg)

With the Full Upper Side Board Set Up securely attached to the Hybrid IV, a stable platform allows the Grip to move the Dolly with a Camera Operator on board. Full Lower Side Board Setup with Boards extended forward.

### Side Boards Configurations

![](_page_36_Picture_2.jpeg)

Narrow Side Board Set Up

![](_page_36_Figure_4.jpeg)

These Hinge Corner Boards are only used in the Upper Position.

![](_page_37_Picture_1.jpeg)

![](_page_38_Figure_1.jpeg)

![](_page_39_Picture_0.jpeg)

Quantity		Location	Number
1	Narrow Side Board (Left)	MR	1L
1	Narrow Side Board (Right)	MR	1R
2	Side Board (Interchangeable)	U L&R	2
1	Front Board (Adjustable)	U	3
1	Standing Board	U	4
1	Narrow Corner Board (Left)	ΜF	5L
1	Narrow Corner Board (Right)	MF	5R
2	Hinged Corner Board (Interchangeable)	ΜF	6
1	Wide Corner Board (Left)	ΜF	
1	Wide Corner Board (Right)	MF	
1	GQ Leveling Head Strut	ΜA	
1	Dolly Seat w/Collar	UΑ	
1	Swivel Seat w/Locking Pin	UF	
1	90° Hi/Lo Plate w/Leveling Head	ΜA	
1	90° Hi/Lo 7" Extension	ML	
1	90° Plate Hi/Lo Foot Rest	ML	
2	Front Lift/Push Bars	В	
2	Rear Lift/Push Bars	В	
1	12" Dolly Seat Riser	В	
1	12" Camera Riser	MR	
1	6" Camera Riser	MR	
1	3" Camera Riser	MR	
1	Castle Ring Wrench	В	
1	Seat Offset	В	
1	Dolly Nose Seat	ΜA	
1	16" Camera Extension	ML	
1	24" Camera Extension	ML	
1	Standard Hybrid 4-Way Level Head w/Nose Plate	ΜA	
1	Standard 90° Low Camera Plate	ΜA	
1	Close End Wrench, Hybrid	В	
1	12" Tracking Bar Extensions	В	
1	Chapman Quick Jack	В	
1	Accessory Cart Cover	В	
1	Hybrid IV User Guide	в	

# Storing the Accessories

Left Side

**Right Side** 

![](_page_41_Picture_5.jpeg)

# Legend

- U Upper
- M Middle
- B Bottom Carriage
- L Left Side
- R Right Side
- F Front
- A Aft (Rear)

#### **Quick Release Wheel Locks**

![](_page_42_Picture_2.jpeg)

Changing a wheel is a fast and easy procedure. Each wheel is held in place with a Quick Release Wheel Lock. Spray the tires with Zep Par NC Silicone Spray (Key Words on Label "Mold Release Agent") This will improve performance on floors, hardwood, track and even on concrete. That's because friction is the culprit behind tire squeaks and the tendency of tires to stick to track or polished floors. Treated tires begin rolling and run through turns with only moderate force.

Use the same spray to clean the tires.

Slide the Quick Release Wheel Lock into place on the axel. The spring will snap into place.

The Wheel is now secure.

# Chapman Quick Jack

Item #55170

For use with all Chapman dollies

![](_page_43_Figure_4.jpeg)

The Quick Jack in stowed position.

Extended with Peg detached.

Peg attached to Lower Hole.

The Quick Jack can be used on any Chapman dolly by attaching to a different side board hole.

![](_page_44_Picture_2.jpeg)

The Hybrid Quick Jack inserted into the lower center Side Board Hole.

![](_page_44_Picture_4.jpeg)

Easily lifts the Hybrid IV dolly for a tire change.

#### Maintenance

Always begin cleaning the Dolly with a vacuum cleaner. Never use an air hose because dirt and metal shavings will find their way into joints and bearings. This can seriously shorten the life of the Dolly.

Never directly spray the Dolly with water. Use soap and water appllied to a cloth or paper towel, or preferably a brush to wipe down the rubber and metal parts of the Dolly.

Wax the exterior of the Dolly using **Megular's Mirror Glaze Cleaner Wax.** This keeps the Dolly cleaner during regular use and preserved the finish. A clean Dolly will ensure optimum performance with smooth and quiet movements while enhanching its aesthetics.

Spray the tires with **Zep Par NC Silicone Spray** (Key Words on Label are "Mold Release Agent"). This dramatically improves tire performance on tile floors, hardwood, track and even on concrete. Use the same spray to clean the tires.

![](_page_45_Picture_6.jpeg)

For Metal

![](_page_45_Picture_8.jpeg)

Always read Warning Labels.

# **Optional Accessories**

![](_page_46_Picture_2.jpeg)

![](_page_46_Figure_3.jpeg)

The Extended Tracking Bar allows the grip to move the dolly without touching the steering handle.

The optional Rainhouse protects the camera and operator from the elements. It is also available in an opaque sunshade version.

Packing the Dolly

Transportation

# The stripped down weight of the Hybrid IV is 395 lb

You can use the Lifting Bars from the Accessory Cart to remove the Dolly from the packing crate. Be sure the Lifting Bars are fully seated and the Retaining Pins are projecting below the dolly.

Use all four Carrying Bars when carrying the dolly. Attempting to make a move with only one Carrying Bar per end or per side may cause injury.

![](_page_47_Picture_6.jpeg)

![](_page_48_Picture_1.jpeg)

![](_page_48_Picture_2.jpeg)

![](_page_48_Picture_3.jpeg)

Two notches in the crate engage the dolly at these points.

The dolly is cradled and no additional bolts or straps are needed.

![](_page_48_Picture_6.jpeg)

Remove the Lifting Bars from the dolly and place them in the crate.

![](_page_48_Picture_8.jpeg)

There is enough room for all the accessories that come off the Hybrid IV to be placed in or on the Accessory Cart.

![](_page_48_Picture_10.jpeg)

One side of the Accessory Cart Crate can be lowered to form a ramp. The Accessory Cart can then be wheeled into its own crate for shipping.

# Technical Help

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 (818) 764-2728

# Orlando

(888) 337-8243 (407) 851-3456

#### Shipping & Rental Return

The customer should be sure that the equipment is properly crated for shipment. Get a signed receipt from the shipping company that will be transporting the equipment. Keep the receipt from the transport company indicating that the equipment has been shipped to Chapman/ Leonard Studio Equipment, Inc.

When picking up or returning rental gear to Chapman/Leonard Studio Equipment, Inc., please remember that rentals are due back by 10 a.m. at our North Hollywood facility.

The rental bays are located on your left, immediately after entering the facility from Raymer Street. Trucks should be backed up to the bays for easier loading. If no bays are available, you can temporarily park on Raymer Street and advise the Rental Office of your arrival. A Customer Service Agent will advise you when a spot opens at the bay.

All drivers should first report to the Rental Staff for paperwork. Unloading will not begin until the paperwork has been picked up and stamped. Our Rental Staff is well trained to process equipment and documents quickly and courteously. It is our intent to get you back on the road in a timely manner.

#### Address

Chapman/Leonard Studio Equipment. Inc. 12950 Ravmer Street North Hollywood, CA 91605

#### **Rental Office Hours**

Monday - Friday	7am - 6pm
Saturdays	8am - 12 pr

![](_page_50_Figure_10.jpeg)

pm

![](_page_52_Picture_0.jpeg)