

CARTONIE

PROFESSIONAL CAMERA SUPPORTS

*Seven decades
of manufacturing
state-of-the-art
professional camera
support systems*

MADE IN ITALY

FIVE YEAR WARRANTY

HIGH TECH ALLOYS AND COMPOSITES

ONGOING RESEARCH AND DEVELOPMENT

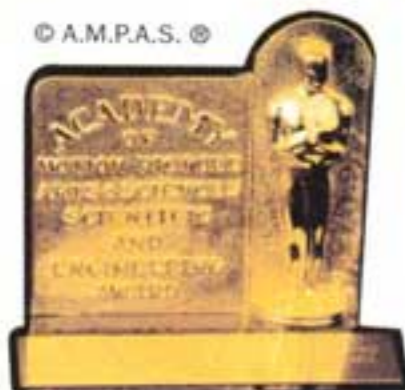
WORLD-WIDE DISTRIBUTION AND SERVICE

INDUSTRY LEADER IN CUSTOMER SUPPORT

PATENTED HERMETICALLY-SEALED FLUID MODULES

PATENTED MOVING "LABYRINTH AND PLANETARY" FLUID SYSTEMS

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"The work of Dr. Cartoni set the standard for one of the most popular methods of achieving selectable and repeatable viscous drag used in the industry"

Academy of Motion Picture Arts & Sciences
Scientific and Engineering Award
Presented March 7th, 1992

"To Guido Cartoni, for the invention and introduction in 1972 of the first frictionless Fluid Modular Camera Control Head System with interlocking plates and three steps of drags which has significantly contributed to the Art and Craft of the Camera Operator"

The Society of Operating Cameramen
Technical Achievement Award
Presented April 25th, 1999



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Action Pro

Load capacity (at 150mm c/g):	5 Kg (11 lb)
Head weight:	1.2 Kg (2.6 lb)
Pan range:	36°
Tilt range:	- 85°/+90°
Bowl base diameter:	75mm
Temperature range:	- 30°/+ 60°C (-22°/+158°F)
Fluid drag:	labyrinth module
Counterbalance:	1 setting + 0

The **CARTONI Action Pro** is a lightweight and cost-effective pan-and-tilt system offering true fluid drag and professional features for sophisticated digital cameras weighing up to 5 Kg (11 lb).

The **Cartoni** Patented fluid drag modules are employed for both pan and tilt modes.

Counterbalance is provided by a double-spring group which can be easily disengaged with cameras weighing less than 2 Kg (4.5 lb).

Featuring positive pan-and-tilt locks, spirit level and adjustable pan bar, the **Action Pro** head is supported on a sturdy aluminum 75mm bowl base tripod with off-ground spreader, flat-pivoting rubber feet and shoulder strap.

The following accessories are available as options: second pan bar, padded carrying bag and lightweight dolly.

Add a third axis to the **Action Pro** fluid head and create fantastic **Dutch** angles.

The **CARTONI DigiDutch** interfaces with **Action Pro** camera plate or any other plate featuring 3/8" screw attachment.



Alfa

Load capacity (at 150 mm c/g):	8 Kg (17 lb)
Head weight:	2 Kg (4.4 lb)
Pan range:	360°
Tilt range:	-/+60°(90° at "0" counterb.)
Ball base diameter:	100 mm
Temperature range:	- 30°/+ 60°C (-22°/+158°F)
Fluid drags:	continuously adjustable
Counterbalance:	1 setting + 0

This is the **CARTONI** for the new generation of **DV** and light-weight **ENG Professional Video Cameras**.

The **ALFA** provides for fast dynamic counterbalance of cameras loads up to 8 Kg (17 lb). For heavier cameras weighing up to 10 Kg (22 lb) an upgraded version, **ALFA II**, is also available.

On both versions, **ALFA** and **ALFA II**, the camera weight is counterbalanced by a double-spring group which can be disengaged by simply flipping a lever when shooting with ultra-light equipment.

The quick release sliding plate allows the camera to be perfectly balanced and easily mounted.

The **ALFA "Dual Drag"** system combines the patented **CARTONI "labyrinth"** module with an advanced lubricated friction drag mechanism to provide the widest range of infinitely-variable precise settings.

In the pan mode the on/off selector allows the fluid system and the lubricated friction to be activated separately or simultaneously; while on the tilt mode the fluid module and lubricated friction operate at the same time ensuring different drag levels to be achieved by simply turning the appropriate knob.

The **ALFA** series comes equipped with a 100mm ball base, telescopic handle and spirit level.

A three tube flip-clamping aluminum or carbon fiber single-stage tripod with off-ground spreader and flat-pivoting rubber feet provides for outstanding lightness and stability allowing the system to be easily carried and rapidly deployed into action.



Beta

Load capacity (at 150 mm c./g):	10 Kg (22 lb)
Head weight:	2.6 Kg (5.7 lb)
Pan range:	360°
Tilt range:	- 50° / +60°
Ball base diameter:	100 mm
Temperature range:	- 30°/+ 60°C (-22°/+158°F)
Fluid drag:	3 tilt + 3 pan
Counterbalance:	3 settings + 0

The **CARTONI BETA** Fluid Head is the ideal mate for today's on-the-move compact **ENG** camcorders.

The camera weight is counterbalanced by two groups of springs operated by two easy-action levers allowing three stepped-balance weights plus "free" position.

Cameras weighing 5 Kg (11 lb) are easily counterbalanced with the first spring module. The second module allows support of an 8 Kg (18 lb) camera.

With both spring modules engaged at the same time, the system can counterbalance a 10 Kg (22 lb) camcorder.

The **BETA** fluid damping system is activated vertically and horizontally by two patented **CARTONI** labyrinth modules providing three levels of progressive intensity, as well as "0" for freewheeling and whip pans.

The **CARTONI BETA** is equipped with a 100mm ball base, telescopic pan bar and quick-release camera plate. A second pan bar is available as an option.

The standard flip clamping aluminum or ultra-light carbon fiber tripod, available in both single or two stage versions, makes the system light enough to "pick up and go" wherever you shoot.





Gamma

Load capacity (at 150 mm c/g):	13 kg (29 lb)
Head weight (w/sliding platform):	3.3 kg (7.2 lb)
Head weight (w/sliding base plate):	3 Kg (6.5 lb)
Pan range:	360°
Tilt range (with sliding platform):	+/- 90°
Tilt range (with sliding base plate):	+70°/-90°
Temperature range:	-30°/+60°C (-22°/+158°F)
Ball base diameter:	100mm
Fluid drag:	continuously adjustable
Counterbalance:	continuously adjustable

CARTONI has employed the latest in design technology and state-of-the-art materials in its **CARTONI GAMMA** Fluid Head, an extremely rugged, lightweight and cost-effective head specifically designed for **ENG** digital camcorders weighing 5-13 Kg (11-29 lb).

The **GAMMA** offers a host of advanced features including infinitely adjustable tension settings, camera quick-release system and illuminated spirit level.

The award winning, patented fluid damping system ensures consistent drag levels and smooth camera movements throughout the range and allows perfect reproduction of 10 basic tension settings continuously adjustable in both pan and tilt modes.

Featuring an infinitely variable counterbalance with easily readable numeric reference, the **GAMMA** provides excellent performances at any tilt angle from -70 to +90 degrees.

The **GAMMA** comes equipped with a standard 100 mm sliding platform with quick-release system, or with an ultra-light integrated sliding camera plate with safety lock for additional tilt performances at +/-90 degrees.

A wide range of 100mm bowl **ENG** tripods with flip-clamping systems are available in both aluminum and carbon fiber versions either in single or two stage extension. Flat pivoting rubber feet make the tripod suitable for a variety of surface conditions.



Delta

Load capacity (at 150 mm c/g):	17 Kg (37 lb)
Head weight (w/sliding platform):	3.5 Kg (7.7 lb)
Head weight (w/sliding base plate):	3.2 Kg (7 lb)
Pan range:	360°
Tilt range (with sliding platform):	-60°/+70°
Tilt range (with sliding base plate):	+/- 90°
Ball base diameter:	100 mm
Temperature range:	-30°/+60°C (-22°/+158°F)
Fluid drag:	continuously adjustable
Counterbalance:	continuously adjustable

Ideal for supporting **ENG** dockable camcorders equipped with large battery packs, the **DELTA** can also be successfully employed with cameras using **EF** accessories.

Manufactured with an extensive use of ultra-light magnesium alloy, this Fluid Head combines excellent reliability with unbeatable cost efficiency and flexibility.

The **CARTONI DELTA** features an innovative fluid damping system which represents a further sophistication of the award winning **CARTONI** "labyrinth" system, incorporating a large size single-action module which assures consistent drag levels combined with extremely smooth and precise camera movements both horizontally and vertically.

The fully variable counterbalance system is designed to accommodate offset payloads such as long lenses, small prompters and top-mounted viewfinders, while a frictionless fluid drag mechanism allows perfect reproduction of 10 basic tension settings for both pan and tilt functions.

Cameras weighing 8-17 Kg (18-37 lb) are perfectly balanced by a patented counterbalance system which assures optimum performance at any tilt position. Tilt angle can be increased up to +/-90 degrees by using the lightweight sliding base plate.

Two **digital displays** powered by a standard 9V battery, show the counterbalance and tilt drag values, while an illuminated spirit level allows easy set-up even in low light conditions.

A wide range of 100mm bowl tripods are available in both aluminum and carbon fiber versions, in either single or two stage extensions, featuring standard or extra light tubes.



C20S

Load capacity (at 150 mm c/g):	25 Kg (55 lb)
Head weight:	6.2 Kg (14 lb)
Pan range:	360°
Tilt range:	+/- 65°
Ball base diameter:	100 mm or 150 mm
Temperature range:	-30°/+60°C (-22°/+158°F)
Fluid drag:	7 tilt + 7 pan
Counterbalance:	7 settings + 0

The **CARTONI C20S** Fluid Head is designed to provide an extremely stable support system for both standard **EF** camcorder configurations and **Super-16mm film** cameras.

By simply presetting the differential spring reactive elements, the **C20's** unique counterbalance system is ready to support a wide range of cameras weighing 5-25 Kg. (11-55 lb).

A 55mm sliding base combined with a quick-release plate allows the camera operator to fine tune the balancing of any camera-and-lens combination, while an 8-position, easy-grip selector provides for perfect dynamic compensation.

With the counterbalance selector ring set to "0", additional tilt angle can be also achieved by turning the tilt knob to the OFF position.

The **C20S** features three **CARTONI** award-winning and patented fluid damping modules which assure outstanding drag levels and extraordinary smoothness in both pan and tilt functions. Pan and tilt movements can be dampened with 7 precisely repeatable steps of drag, while freewheeling is obtained by simply setting the relevant selector ring to position "0".

The **CARTONI C20S** features a 100mm ball base, an illuminated spirit level and two telescopic control handles. A 150mm ball base is also available as an option. The fluid-action head works with standard aluminum or ultra-light carbon fiber tripods, available both in single or two stage extension.





C40S

Load capacity (150 mm c/g) :	45 Kg (100 lb)
Head weight :	10 Kg (22 lb)
Pan range:	360°
Tilt range:	+/- 65°
Ball base diameter:	150 mm and flat
Temperature range:	- 30°/+ 60°C (-22°/+158° F)
Fluid drag:	7 tilt + 7 pan
Counterbalance:	7 settings + 0

Hand-crafted from the latest hi-tech metal alloys, **C40S** is a heavy duty Fluid Action Head specifically designed to support **Studio** configurations or **35mm film** cameras.

The **C40S** employs the patented **CARTONI** fluid drag control system for both pan and tilt functions, allowing the damping levels to range from "0" for freewheeling to "7" for maximum drag.

The counterbalance system, activated by an 8-position easy-grip selector, works with three reinforced groups of high section springs.

This mechanism combined with a 60mm sliding base plate, allows the camera operator to fine tune an extremely wide range of cameras weighing from 10 to 45 Kg (22 lb to 100 lb) throughout a tilt range of +/- 65 degrees.

The ability to select any combinations of fluid drag and dynamic counterbalance allows quick response to any situation and repeat the same setting again and again.

Standard equipment includes quick release camera plate with safety lock, two adjustable telescopic handles and illuminated spirit level.

The head comes equipped with a standard flat **Mitchell** base. Options include a 150mm ball base and a eyepiece extension holder.

The **CARTONI C40S** interfaces directly with the **Studio** heavy-duty tripods available in either single or two stage extension or, for extra ruggedness, with the **Maxi** tripod.



Sigma

Load Capacity (at 200 mm c/g):	40 Kg (88 lb)
Head weight:	11 Kg (24 lb)
Pan range:	360°
Tilt range:	-/+90°
Ball base diameter:	150 mm / Mitchell
Temperature range:	- 30°/+60°C (-22°/+158° F)
Fluid drag:	continuously adjustable
Counterbalance:	continuously adjustable

Designed to support **35mm film** cameras as well as **video** configurations weighing from 25 kg (55 lb) to 40kg (88 lb) the **CARTONI SIGMA** combines a new patented counterbalance system with an advanced fluid damping module for both pan and tilt functions.

The counterbalance operating knob is conveniently located on the side of the fluid head and is calibrated with a variable adjustment connected to a **digital display**.

The frictionless damping module also features a new patented "planetary" design which provides for extraordinary performance with smooth and precise movements combined with a linear response in any critical environment.

The continuously variable fluid control knobs located on the rear panel are easy to reach and have an **easy-to-read digital display** which allows for a quick set-up — even in low-light conditions — by the camera operator.

The **SIGMA** interfaces directly with any **Mitchell** or 150mm bowl base and can be easily mounted on top of all existing pedestals featuring the 4-hole bores.

The fluid head weighs 11kg (24 lb) and comes provided with two telescopic pan bars and illuminated spirit level.

Option includes the eyepiece extension holder.



Omega

Load Capacity (at 200 mm c/g):	70 Kg (154 lb)
Head weight:	13.5 Kg (30 lb)
Pan range:	360°
Tilt range:	-/+65°
Ball base diameter:	Mitchell
Temperature range:	- 30°/+60°C (-22°/+158° F)
Fluid drag:	continuously adjustable
Counterbalance:	continuously adjustable

Designed to support the latest **STUDIO** and **OB** cameras equipped with long lenses, 7 inch viewfinder or large 15 inch teleprompter, the **CARTONI OMEGA** is an extremely compact fluid head that features an entirely new patented counterbalance system as well as an advanced fluid damping module.

The **OMEGA** counterbalance system is ideally suited to operate with cameras with a high center of gravity that weigh 35-70 Kg (77-154 lb).

Calibrated with a variable adjustment connected to a **digital readout display**, the counterbalance operating knob is conveniently located on the side of the head.

The frictionless damping modules also feature a patented "planetary" design that provides extraordinary performance - smooth and precise movements together with a linear response in any critical environment.

The continuously-variable fluid control knobs, located on the rear panel, are easy to reach and have the benefit of the **digital readout** which facilitates a quick set-up even in low light conditions.

The effective rear-control brakes on both pan and tilt mode are integrated with a side knob allowing the head to be fully locked in a horizontal position insuring a fast and secure camera mounting.

The **CARTONI OMEGA** interfaces directly with any **Mitchell** base and can be easily mounted on top of all existing pedestals featuring the 4-hole bores.

The fluid head weighs only 13.5 Kg (30 lb), the lightest in its class, and features an integral carrying handle, two telescopic pan bars and illuminated spirit level.





Lambda

Load Capacity:	30 Kg (66 lb)
Head weight:	(21 Kg / 46 lb)
Pan range:	360°
Tilt range:	360°
Horizontal platform extension:	390mm
Vertical platform extension:	630mm
Fluid drags:	7 tilt + 7 pan
Temperature range:	- 30°/+60°C (-22°/+158°F)

The **CARTONI LAMBDA** is a **Nodal Swing Head** ideally suited to fully-equipped **35mm film** cameras with long lenses, matte box and extra-large magazines.

Unlike other traditional fluid heads, the **LAMBDA** mounting can be inverted for low-line lens positioning, allowing the camera to be moved all the way to the ground to provide accurate images.

With the **LAMBDA**, there is no need to change or disassemble additional platforms or risers to accommodate the optical center of the camera. Simply adjust the center of gravity by turning the two easy-to-reach and smooth-to-operate independent wheels; the vertical sliding platform will immediately lift or lower with a precise positive movement and considerable time saving.

The balance system is designed so the camera swings on its own center of gravity and **rotates 360°** on its vertical axis.

The **LAMBDA** employs the patented **CARTONI** fluid drag control system for both pan and tilt modes that allows the damping levels to range from "0" for freewheeling to "7" for maximum drag.

The head comes equipped with a standard **Mitchell** flat base. Options include a 150mm ball base, two balancing counterweights and a third axis to roll the camera 360° sideways.



Dutch Head

C20S Dutch	
Load capacity (at 150mm c/g):	25 Kg (55 lb)
Head weight:	5 Kg (11 lb)
Tilt range:	+ / - 65°
Ball base diameter:	120x80x7 mm plate three 3/8" taped holes
Temperature range:	30°/+ 60°C (-22°/+158°F)
Fluid drag:	7 settings + 0
Counterbalance:	7 settings + 0

C40S Dutch	
Load capacity (at 150mm c/g):	45 Kg (100 lb)
Head weight :	8 Kg (17 lb)
Tilt range:	+/- 65°
Ball base diameter:	120x80x7 mm plate three 3/8" taped holes
Temperature range:	- 30°/+ 60°C (-22°/+158° F)
Fluid drag:	7 settings + 0
Counterbalance:	7 settings + 0

The **C20S Dutch Head** was designed to make exceptionally smooth side-tilt effects simple and straightforward to execute.

The award-winning **CARTONI** Fluid Module System is integral to the

C20S Dutch and insures that drag can be adjusted to suit any operator preferences.

Supporting cameras up to 25 Kg (55 lb) the system also features a frictionless side-to-side sliding base, locking quick-release plate and telescopic handle.

Ideal for cameras weighing up to 45 Kg (100 lb), the **C40S Dutch Head** features the 7-step spring system which provides perfect dial-in counterbalance.

Like the standard **C40S**, the **Dutch** also employs the patented **CARTONI** Fluid Drag Control System.

Intensity levels range from "0" for freewheeling to "7" for maximum drag.



P50 Pedestal

Maximun pressure:	13.0 atm (187 psi)
Maximun capacity:	55Kg (121lb)
Standard pressure:	10.0 atm (144 psi)
Standard capacity:	45Kg (100 lb)
Dolly weight:	14 Kg (31 lb)
"On-shot" stroke:	50cm (19.7")
Column weight:	14 Kg (31 lb)
Dolly leg radius:	50cm (19.7")
Total weight:	28 Kg (61 lb)
Steering ring diameter:	45cm (17.7")
Minimum height:	75cm (30")
Wheel diameter:	12.5cm (4.9")
Maximun height:	140cm (55.1")
Doorway tracking width:	100cm (39.4")
Wheels:	3 x 2 coupled

The **CARTONI P50 Pedestal** is a portable and compact system for both **STUDIO** and **OB** applications consisting of a single pneumatic elevation column and a foldable dolly.

The **P50's** central column features an innovative design providing outstanding stability and jerk-free control with exceptional smoothness and precise movements.

The central unit has a built-in damping regulator, an air pressure gauge, locking brake and a safety air-pressure valve.

The air pressure can be set manually or by an air compressor through the intake valve.

Precise camera balance is achieved at full extension by simply activating the bleed valve, releasing excess air pressure.

The column, supports a maximum payload of 55 Kg (121 lb) at 180 psi and the safety valve, which prevents overfilling, is adjusted at maximum 215 psi.

A six position track lock, foot operated brake on each of the 125 mm twin wheels and cable guards, provide smooth movements in any desired direction.

The column is firmly secured to the dolly by a double clamp, easily engaged by two ergonomic, locking levers. A set of 200 mm pneumatic tires with wheel brakes are available for **OB** use.

CARTONI *Tripods*

Available in both single or two stage extension, handcrafted in sturdy lightweight aluminum or ultra-light carbon fiber.

ENG	# T 621	# T 627	# T 622	# T 622-2	# T 622-B	# T 622-C	# T 622-2C
Series	ENG - Prosumer	ENG	ENG	ENG	ENG	ENG	ENG
Type	1 stage	3 tube	1 stage	2 stage	baby	1 stage	2 stage
Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Carbon fiber	Carbon fiber
Weight	1.9 Kg/4.2 lbs	2.8 Kg/6.2 lbs	2.6 Kg/5.7 lbs	3.1 Kg/6.8 lbs	1.8 Kg/4.2 lbs	2.5 Kg/5.5 lbs	2.9 Kg/6.4 lbs
Bowl diameter	75 mm	100 mm	100 mm	100 mm	100 mm	100 mm	100 mm
Max height	134 cm/53 in.	137 cm/54 in.	138 cm/54 in.	163 cm/64 in.	44 cm/17 in.	138 cm/54 in.	163 cm/64 in.
Min height	76 cm/30 in.	67 cm/26 in.	74 cm/29 in.	52 cm/20 in.	30 cm/12 in.	74 cm/29 in.	52 cm/20 in.
Folded height	83 cm/33 in.	84 cm/33 in.	84 cm/33 in.	73 cm/29 in.	34 cm/13 in.	84 cm/33 in.	73 cm/29 in.
EFP	# T 623	# T 623-2	# 623-B	# T 623-C	# T 623-2C		
Series	EFP	EFP	EFP	EFP	EFP		
Type	1 stage	2 stage	baby	1 stage	2 stage		
Material	Aluminum	Aluminum	Aluminum	Carbon fiber	Carbon fiber		
Weight	4.0 Kg/8.8 lbs	4.5 Kg/9.9 lbs	2.5 Kg/5.5 lbs	3.3 Kg/7.3 lbs	4.0 Kg/8.8 lbs		
Bowl diameter	100 mm	100 mm	100 mm	100 mm	100 mm		
Max height	146 cm/57 in.	165 cm/65 in.	44 cm/17 in.	146 cm/57 in.	165 cm/65 in.		
Min height	68 cm/27 in.	54 cm/21 in.	30 cm/12 in.	68 cm/27 in.	54 cm/21 in.		
Folded height	85 cm/33 in.	74 cm/29 in.	34 cm/13 in.	85 cm/33 in.	74 cm/29 in.		
STUDIO & MAXI	# T 624	# T 624-2	# T 624-B	# T 625-T 625-M	# T 624-2C		
Series	STUDIO	STUDIO	STUDIO	MAXI	STUDIO		
Type	1 stage	2 stage	baby	1 stage	2 stage		
Material	Aluminum	Aluminum	Aluminum	Aluminum	Carbon fiber		
Weight	7.3 Kg/16.1 lbs	7.0 Kg/15.4 lbs	5.7 Kg/12.5 lbs	10.0 Kg/22.0 lbs	6.0 Kg/13.2 lbs		
Bowl diameter	Flat/150 mm	Flat/150 mm	Flat/150 mm	Flat/150 mm	Flat/150 mm		
Max height	154 cm/61 in.	164 cm/65 in.	45 cm/18 in.	138 cm/54 in.	164 cm/65 in.		
Min height	80 cm/31 in.	58 cm/23 in.	32 cm/13 in.	77 cm/30 in.	58 cm/23 in.		
Folded height	93 cm/37 in.	75 cm/29 in.	35 cm/14 in.	89 cm/35 in.	75 cm/29 in.		

CARTONI

**FLUID HEADS • NODAL SWING HEADS • DUTCH HEADS • PEDESTALS
TRIPODS • DOLLIES • CASES • SPREADERS • ACCESSORIES**

BUILT by PROS for PROS

WARRANTY

CARTONI S.P.A. stands behind each product with 1 year warranty and with an unprecedented 5 year warranty for each professional Fluid Head against defects in materials and workmanship. Specifications and prices are subject to change without notice.

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