

NEWTON HEAD



The NEWTON is a versatile, light weight, gyro-stabilized, remote camera head made for professional broadcasters, cinema production companies and rental houses to stabilize cameras and perform steady shots while in motion on a variety of devices.

The NEWTON's powerful gyro-stabilization, tool and device free handling, robust, dust and water protected design, offers an efficient and reliable broadcast and cinema solution for use on 1D/2D/3D wire-cam systems, cranes, jib arms, dollies and shock absorber equipped vehicles.

The multi-function GCU controller provides the precision and control of the remote stabilized head, camera and lens via dual frequency wireless communication enabling the GCU and NEWTON to perform well together in congested wireless environments along with an optional control over fibre interface. The GCU's communication protocols allows for third party integration and can be easily equipped with ancillary devices including wheel systems or ethernet remote coms.

The NEWTON permits quick setup times with an integrated camera quick release system, automated calibration and hot swapping of batteries

MAIN FEATURES

- » **Rugged**, water and dust protected design
 - » **Dual reliable** long-range data-links or control over fibre.
 - » **Compatible** with a wide range of cameras and lens control systems.
 - » **Short setup time** with quick release systems and hot battery swapping.
 - » **Mountable** over-slung and underslug-slung or cantilevered.
 - » **Auto-Horizon** and back-pan compensation
 - » **Power out** for external monitors and receivers.
 - » **Integratable with** 3rd party broadcast and cinema equipment.
 - » **Upgradable firmware.**
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PHYSICAL SPECIFICATIONS	Dimensions	Weight 6,8kg / 15lbs	Material Aluminum
	Mounting Mitchell mount or cheeseplate mounted over-slung, under-slung or cantilevered.	Max rotation speed 180deg/sec	Rotation Specification Pan rotation: unlimited Tilt: +45/-135 degrees Roll: -45/+45 degrees
ENVIRONMENTAL	Protection Dust and water protected (IP54)	Temperature Range -20°C to +45°C (-4°F to 113°F)	
POWER	Input supply 14-30V DC	Power Consumption Standby: 0.1A Average: 1,5A Max: 10A	Power Output External supply voltage (14-30V) or;
	Battery 2x Sony BP-U90 (14,4V, 7800mAh) batteries or;		Battery Voltage (14.4V nom), Max 10A
DATA-LINK	Frequency 2.4000 - 2.4835 GHz 422Mhz (optional) or; 920Mhz (optional)	Modulation Frequency Hopping Spread Spectrum	Fibre control Ethernet IA-CAN protocol
		Wireless Range < 1000m	
INTEGRATION	Cameras RED EPIC X / Dragon CANON C300 / C500* SONY FS700 / F5 / F55* PHANTOM FLEX4K ARRI ALEXA Mini (start/stop)	Lens Control FUJINON digital-drive CANON HJ14ex4.3 and similar RED W.M.D RTMOTION MK3.1	System Interface Ethernet CAN Bus (IA-CAN) RS232/422
	Operator controller tally SONY HDC-P1 GRASS-VALLEY LDX C80	Mounting point connectors 2x SDI out 1x Power out 1x Power in 1x Ethernet Control 1x Ethernet Camera Pass-Through	Camera Connectors 2x SDI in 1x Ethernet Pass-Through 1x Power out (camera) (Max 8A)
CONTROLLER	Dimensions 355 x 190 x 121 mm	Weight 2.2kg / 4.8 Lbs	Material Aluminum
	Mounting 3x 100mm NATO accessory rail 1x 50mm NATO accessory rail Tripod mount Neck strap and harness attachment rail	Display 5" TFT-LCD Color (800x480)	Connectors 2x IA-CAN connectors 1x Power out 1x Power in 1x SD-card 1x USB 1x Ethernet