NEWTON

PLUG IN. RELAX.
BROADCAST.

NEWTON S2 is a compact gyro-stabilized remote-controlled camera head which enables creative placement and dynamic movement of TV cameras in live broadcast. With reliable performance, full 4K broadcast compatibility and unlimited pan, NEWTON S2 is the preferred remote camera system on 1D/2D/3D cable cams, tower cams, rail systems, telescopic cranes, jib arms and vehicles.

MAIN FEATURES

- 3-axis stabilization in all angles, with reliable auto-horizon and low gyro-drift
- Supports unlimited pan in 4K or 1080p broadcast with genlock and remote camera control.
- Designed for clean, compact and discreet camera installations.
- Integrates with cameras and lens control systems from all major broadcast equipment manufacturers.
- Supports multi-frequency long-range wireless data links or control over cable.
- Fast setup with travel-friendly cases and batteries.
- Optional camera cage with counterweights, for storing of a balanced camera & lens and quick re-mounting onto the head.
- Proven on various applications, for several years, at the world's most prestigious broadcast events.
- Priced to enable outstanding production value.

WE ARE NEWTON NORDIC FROM SWEDEN. With proprietary technology we strive to be the best provider of moving camera systems for the TV broadcasters around the world. See more at **www.newtonnordic.com**

NEWTON

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THE NEWTON SYSTEM IS MADE FOR LIVE BROADCAST where reliable and constant high performance is key. To ensure that every production is successful, NEWTON is sold with training and our dedicated support. With robust and weather protected design, tool and device free handling, ease of transportation and intuitive control, NEWTON has grown popular among TV broadcasters and service companies around the world. The NEWTON system has since its introduction in early 2016, been used extensively in top tier live broadcast events such as Eurovision Song Contest, Champions League and the Oscars.

THE NEWTON S2 STABILIZED HEAD features a clean passthrough for standardized communication and broadcast signals, made to instantly integrate into broadcast infrastructure and fiber networks. Its ultra-compact design enables installations of remote special cameras in front or overhead of audience, without obstructing the view of spectators nor other cameras.

THE NEWTON C2 CONTROLLER offers high-precision control of the NEWTON heads as well as Fujinon, Canon and Teradek RT lens motors. It is made for long broadcast sessions and has become highly appreciated by operators for its ergonomics, customizability and intuitive control feel. The large display supplies real-time gimbal, camera and lens data and lets the operator define the input functions of all buttons and knobs.

THE PROPRIETARY STABILIZATION AND CONTROL technology of NEWTON generates high data accuracy with low drift, making NEWTON future proof for the growing demand for augmented reality and motion control applications in live broadcast. NEWTON's firmware is under constant development and new features are released regularly. Together with a passthrough supporting fiber-optic communication, NEWTON S2 will match the latest broadcast demands for years to come.

NEWTON S2 STABILIZED HEAD

INTEGRATION

BROADCAST CAMERAS
Box style such as:
SONY HDC-P1, P43, P50
Grass Valley LDX C86 Compact

CINEMA CAMERA RUN/STOP
RED Epic/Dragon/Weapon.
ARRI Alexa Mini.
Others via Teradek RT MK3.1.

LENS CONTROL
Canon Broadcast lenses.
Canon Cine-Servo.
Fujinon Broadcast lenses.
Teradek RT MK3.1.

MOUNT CONNECTORS
1x 3G-SDI or ST-UPC single mode fiber passthrough.
1x HD-SDI passthrough.
1x Ethernet control.
1x Ethernet camera passthrough.
1x Power in.
1x Power out.
1x RS232.
1x CAN bus (IA-CAN).

CAMERA CONNECTORS
1x 3G-SDI or ST-UPC single mode fiber passthrough.
1x HD-SDI passthrough.
1x Ethernet camera passthrough.
1x Power out.
1x CAN bus (IA-CAN).

PHYSICAL

DIMENSIONS
Mounted size (approx):
410 x 285 x 380 mm (HxWxD).
Packing size:
390 x 170 x 350 mm (HxWxD).

MATERIAL
Machined aluminum.

WEIGHT
6.7 kg empty.
7.2 kg with camera mount and dove tail.

ROTATION
Pan: unlimited.
Tilt: +45/-135 degrees.
Roll: +/-45 degrees.

MAX ROTATION SPEED
360 deg/sec.

MOUNTING
Mitchell mount or cheeseplate.
Mounted over-slung & under-slung.

DISPLAY
2.4" TFT-LCD Color (320 x 240).

ENVIRONMENTAL

PROTECTION
Dust and water protected.

TEMPERATURE RANGE
-20 °C to +45 °C (-4 °F to 113 °F).

CONTROL DATA LINK

INTERNAL WIRELESS
2.4000-2.4835 GHz frequency hopping spread spectrum.
Range up to 1000 m.

EXTERNAL WIRELESS
Supports various multi-frequency broadcast grade links.

WIRED
Ethernet UDP.

POWER

POWER SUPPLY
24–36 V DC.
12-24 V with reduced power.

BATTERY
2 x battery (14.4 V Li-ion).

POWER CONSUMPTION
Standby: approx. 15 W.
Average: approx. 35 W.

POWER OUTPUT
Mounting point:
15 V regulated 30 W.
Camera:
15 V regulated, up to 150 W.

NEWTON C2 CONTROLLER

DIMENSIONS
209 x 396 x 115 mm (HxWxD).

MOUNTING
100 mm NATO accessory rail.
Tripod mount.
Neck strap and harness attachment rail.

WEIGHT WITH BATTERY
3.3 kg / 7.3 Lbs.

MATERIAL
Machined aluminum.

CONNECTORS
1x RS232.
1x IA-CAN.
2x Power out.
1x Power in.
1x SD-card.
1x USB.
1x Ethernet control.

LEFT PANEL OPTION
Joystick or wheel/rocker

DISPLAY
5" TFT-LCD Color (800 x 480).

POWER INPUT SUPPLY
12-24 V DC.

POWER CONSUMPTION
5 W.

POWER OUTPUT
External supply voltage (12-24 V) or;
battery voltage (14.4 V nom), Max 2.5 A.

BATTERY
Integrated 14.4 V Li-ion.

ANTENNAS
Detachable.