



# NEWTON S2 STABILIZED HEAD

**NEWTON S2 BY INTUITIVE AERIAL** is a versatile, lightweight, gyro-stabilized, remote controlled camera head, enabling professional TV broadcasters and cinema production companies to capture steady shots from a variety of moving devices.

**THE RELIABLE GYRO-STABILIZATION**, discreet design and full 4K broadcast compatibility make NEWTON S2 the preferred remote head on 1D/2D/3D cable camera systems, towers, rails, cranes, jib arms, remote dollies and vehicles. Combined with robust and weather protected design, tool and device free handling, ease of transportation and intuitive control, NEWTON has grown popular among service and rental companies around the world. NEWTON S has since its introduction in late 2015, been used extensively in live broadcast, for example at Eurovision Song Contest, with 300 million viewers. In 2018, the successor NEWTON S2 was launched and includes upgrades such as stronger motors, higher power and a more sophisticated slip ring.

**THE DOMINION REMOTE CONTROLLER**, used for NEWTON, is highly appreciated by operators for its customizability and intuitive control feel. Both products are proprietary to Intuitive Aerial and developed by our engineers in Linköping, Sweden.

## **NEWTON S2 IS MADE FOR LIVE BROADCAST**

where reliable and constant high performance is key. In case of emergency, our support is dedicated to make every production a success.

**NEWTON'S FIRMWARE** is under constant improvement and the connectors on our products allows for standard communication and broadcast signals. This ensures future-proof compatibility and integration in the film and broadcast industry.

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### **MAIN FEATURES**

- ▶ Slip ring with fiber or 3G-SDI, supporting genlock and remote camera control.
- ▶ Discreet and slim.
- ▶ Rugged, water protected design.
- ▶ Reliable long-range data-links or control over cable.
- ▶ Compatible with a wide range of cameras and lens control systems.
- ▶ Mountable over-slung and under-slung.
- ▶ Short setup time with quick release systems and battery hot-swapping.
- ▶ Auto-horizon and backpan compensation.
- ▶ Up to 150 W power out for camera & accessories.
- ▶ Integratable with third party broadcast and cinema equipment.
- ▶ Upgradable firmware.
- ▶ Ambitious support for reliable live broadcast.

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### **CONTACT**

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# NEWTON S2 STABILIZED HEAD

## PHYSICAL SPECIFICATIONS

### DIMENSIONS

Packing size:  
390 x 170 x 350 mm (HxWxD).  
Max camera size:  
210 x 260 x 210 mm (HxWxD).

### MOUNTING

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

### WEIGHT

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

### MAX ROTATION SPEED

360 deg/sec.

### DISPLAY

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

### MATERIAL

Machined aluminum.

### ROTATION SPECIFICATION

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

## ENVIRONMENTAL

### PROTECTION

Dust and water protected.

### TEMPERATURE RANGE

-20 °C to +45 °C (-4 °F to 113 °F).

## POWER

### INPUT SUPPLY

24-36 V DC.  
12-24 V with reduced power.

### BATTERY

2 x battery (14.4 V).

### 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.

## DATA-LINK

### FREQUENCY

2.4000-2.4835 GHz frequency  
hopping spread spectrum.  
Secondary frequency option  
available.

### RANGE

Up to 1000 m.

### WIRED CONTROL

**INTERFACE**  
Ethernet UDP.

## INTEGRATION

### CAMERA RUN/STOP

RED Epic/Dragon/Weaon.  
ARRI Alexa Mini.  
Others via RTMotion Lens control.

### LENS CONTROL

Canon Broadcast lenses (HJ14ex4.3  
and similar).  
Canon Cine-Servo.  
Fujinon Broadcast lenses.  
RTMotion mk3.

### MOUNTING POINT

#### CONNECTORS

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

#### SYSTEM INTERFACE

Ethernet.  
CAN bus (IA-CAN).

### CAMERA CONNECTORS

1x 3G-SDI or ST-UPC single mode  
fiber near pan motor.  
1x HD-SDI passthrough.  
1x Ethernet passthrough.  
1x Power out.  
1x CAN bus (IA-CAN).

### SOFTWARE UPGRADE

Via CAN bus (IA-CAN).  
(Mac OS X, Windows)

## DOMINION CONTROLLER

### DIMENSIONS

396 x 209 x 115 mm.

### MOUNTING

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

### WEIGHT WITH BATTERY

3.3 kg / 7.3 Lbs.

### DISPLAY

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

### MATERIAL

Machined Aluminum.

### CONNECTORS

2x IA-CAN connectors.  
2x Power out.  
1x Power in.  
1x SD-card.  
1x USB.  
1x Ethernet.

## NEWTON S2 DIMENSIONS

