AFC ROBOTIC HEAD

MARK ROBERTS MOTION CONTROL

AFC-100S

KEY FEATURES

- Light weight
- Slipring for unlimited pan rotation
- High level accuracy
- Lens control capability
- Camera agnostic

MARK ROBERTS MOTION CONTROL
TELEPHONE: **+44 (0)1342 838000** EMAIL: **info@mrmoco.com**
www.mrmoco.com **www.mrmoco.com/afc**

A Nikon Company

MARK ROBERTS MOTION CONTROL

TECHNICAL INFORMATION

Weight	6.1kg
Camera payload	14kg
Connections on slipring	▸ 24Vdc, 3G HD SDI, RJ45 Gigabit Ethernet (1000 BASE-T) (IEEE 802.3ab), tri-level sync connection
Connections on AFC 100	▸ 2X 12Vdc output for accessories ▸ Lens motor Lemo connections for Zoom, Focus and Iris ▸ RJ45 Gigabit Ethernet (1000 BASE-T) (IEEE 802.3ab) ▸ 3G HD SDI Max output 1080p 50/60 FPS (AFC 100 S) ▸ 12Vdc output on 4 pin XLR ▸ 24 VDC input (AFC 100) ▸ Tri-level sync connection (AFC 100 S) ▸ Stepper axis for roll ring (AFC 100 S) ▸ Serial lens connection (10 pin hirose) ▸ Serial port service connection (10 pin hirose) ▸ 4 pin Lemo trigger (stills camera)
Power requirements	100 – 240 VAC 16A
Temperature range	0 – 45 Degrees Celcius
Humidity tolerance	0% to 85% relative humidity, non-condensing
Axes speed	▸ Pan: 0.001° – 100° per second ▸ Tilt: 0.001° – 100° per second ▸ Zoom: 0.001° – 60° per second ▸ Focus: 0.001° – 60° per second ▸ Iris: 0.001° – 60° per second
Accuracy of playback (angular resolution)	0.5 arc-min
Multi Head Controller software MHC	Available as a 32 bit or 64 bit installer and will need a licence key to activate
Computer requirements	Minimum requirements: ▸ Windows 10 ▸ Intel i3 CPU (Intel i5 recommended) ▸ 4GB of RAM (8GB recommended) ▸ Ethernet adapter ▸ A graphics card with support for OpenGL v4.3 or greater
What's in the box	▸ AFC 100 (S) ▸ 24V XLR PSU 120W ▸ UK 5 amp 2m power cable (IEC) ▸ European 2m power cable (IEC) ▸ USA 2m power cable (IEC) ▸ Cable AFC (10w Hirose m) to Fujinon Lens (20w Hirose m) RS232 80cm ▸ Cable AFC (10w Hirose m) to Canon Lens (20w Hirose m) RS422 80cm ▸ USB Stick with AFC Documents ▸ HD thin cable with 3G HD-SDI - BNC connectors 0.6M ▸ 12V 4W XLR PLG to XLR 4W SKT POWER CABLE (0.6m)

MARK ROBERTS MOTION CONTROL
TELEPHONE: **+44 (0)1342 838000** EMAIL: **info@mrmoco.com**
www.mrmoco.com **www.mrmoco.com/afc**

A Nikon Company

MARK ROBERTS MOTION CONTROL

TECHNICAL INFORMATION

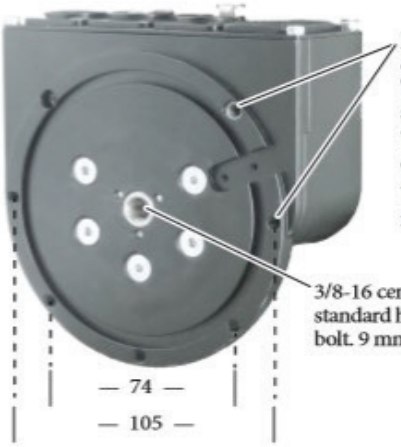
Standard and Additional accessories for AFC

- Mini Maxon Motor LCM & arm 32DP & clamp
- Mini Maxon Motor LCM, 75mm arm & clamp, 32DP
- AFC Stepper roll system
- AFC Standard Platform Set (German G/B)
- Offset mounting plate: allows longer and heavier cameras/lenses to be seated on the head
- Scaffolding head mounting assembly
- 110mm RISER for AFC 100S
- Matt bars for mounting of LCM lens motors
- Mini Teensy USB Joystick
- Focus and zoom rings for Nikon lenses: 16-35mm, 24-70mm, 24-120mm, 80-400mm, 200-500mm
- Fujinon lens cable 20-pin to 10-pin and DC Jack power
- Cable AFC (10w Hirose m) to Canon Lens (20w Hirose m) RS422 80cm
- Cable AFC (10w Hirose m) to Canon Lens (20w Hirose m) RS422 100cm

SIZE

- Total height – underslung – 350mm (324mm without sliprings)
- Total height – overslung – 262mm (236mm withoutsliprings)
- Total width – 310mm
- Operational space ~ 600mm3

AFC mounting holes



M5 threaded holes, 6 mm deep and evenly spaced. The AFC with slip rings has seven of these. The AFC without slip rings has eight.

These can be attached to a Vinten, Bowl, or Mitchell mount by MRMC.

3/8-16 centre hole threaded for a standard heavy-duty tripod mounting bolt. 9 mm deep.

Overslung:

Underslung:

AFC with balanced offset platform for front-heavy video camera with a long lens. This is an optional/additional mount by MRMC.

MARK ROBERTS MOTION CONTROL
TELEPHONE: **+44 (0)1342 838000** EMAIL: **info@mrmoco.com**
www.mrmoco.com **www.mrmoco.com/afc**

A Nikon Company

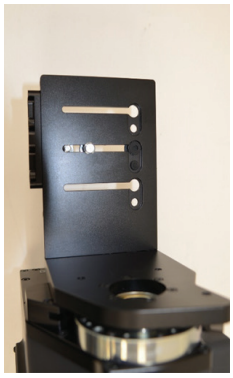
MARK ROBERTS MOTION CONTROL

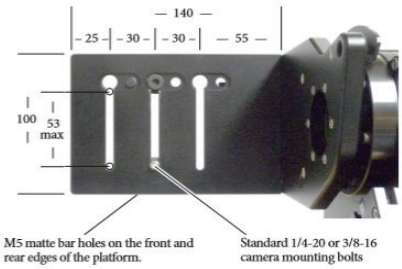
ACCESSORIES

AFC STEPPER ROLL SYSTEM

MINI MAXON MOTOR LCM & ARM 32DP & CLAMP

MOUNTIN PLATE





OFFSET MOUNTING PLATE

110MM RISER FOR AFC 100S

SCAFFOLDING HEAD MOUNTING ASSEMBLY

MARK ROBERTS MOTION CONTROL
TELEPHONE: **+44 (0)1342 838000** EMAIL: **info@mrmoco.com**
www.mrmoco.com **www.mrmoco.com/afc**

A Nikon Company