MagNum Application Examples

...for optical excellence
MagNum in the field
Single focus motor - low cost

MN-101

MN-100T

MN-101R

Record start/stop cable *
Power cable / combined power & record start/stop cable *

Wireless communication in GHz Range (Channel 5 ..F)

Heden M21 / 26 VE; Betz BTM-7 or compatible

* Refer to list of cables at the end of this document
**Single motor – advanced features**

**MN-200**

Wireless communication in MHz Range (Channel 0..4)
Wireless communication in GHz Range (Channel 5 ..F)

- Cine Tape Measure will be displayed on MagNum hand unit
- Record start/stop cable *
- Power cable / combined power & record start/stop cable *
- Heden M21/26 VE; Betz BTM-7 or compatible

* Refer to list of cables at the end of this document
Two motors – Focus & (wireless or local) Zoom

MN-200

MN-200T

Wireless communication in MHz Range (Channel 0..4)
Wireless communication in GHz Range (Channel 5 ..F)

Fujinon compatible Zoom demand, otherwise adaptor cable is needed **

Record start/stop cable *
Power cable / combined power & record start/stop cable *

Heden M21/26 VE; Betz BTM-7 or compatible

* Refer to list of cables at the end of this document
** Wireless Zoom function via keypad on hand unit
Two motors – Focus & Iris (or wireless Zoom)

MN-200

Wireless communication in MHz Range (Channel 0..4)
Wireless communication in GHz Range (Channel 5..F)

MN-200T

MN-200R

Cine Tape Measure will be displayed on MagNum hand unit

Record start/stop cable *
Power cable / combined power & record start/stop cable *

Heden M21 / 26 VE; Betz BTM-7 or compatible

* Refer to list of cables at the end of this document
**Two motors – Focus & local Zoom**

**MN-200**

Wireless communication in MHz Range (Channel 0..4)
Wireless communication in GHz Range (Channel 5 ..F)

Fujinon compatible Zoom demand, otherwise adaptor cable is needed **

Record start/stop cable *
Combined power & Cine Tape cable *

Cine Tape Measure will be displayed on MagNum hand unit

Focus Zoom
Heden M21 / 26 VE; Betz BTM-7 or compatible

* Refer to list of cables at the end of this document
** Wireless Zoom function via keypad on hand unit
Two motors with two hand units – Focus & Iris

MN-200 + MN200T

MN-200T (controls Motor 1 (F); ID set to 1)

MN-200T (controls Motor 2 (I); ID set to 2)

Wireless communication in MHz Range (Channel 0..4)
Wireless communication in GHz Range (Channel 5 ..F)

Cine Tape Measure will be displayed on both MagNum hand units

Record start/stop cable *
Power cable / combined power & record start/stop cable *

Heden M21/26 VE; Betz BTM-7 or compatible

* Refer to list of cables at the end of this document
Two motors with two hand units (Focus & Iris) - low cost

MN-200R + 2x MN-100T

MN-100T (controls Motor 1 (F); ID set to 1)

MN-100T (controls Motor 2 (I); ID set to 2)

Cine Tape Measure will be displayed on both MagNum hand units

Record start/stop cable *
Power cable / combined power & record start/stop cable *

Heden M21/26 VE; Betz BTM-7 or compatible

Wireless communication in GHz Range (Channel 5 ..F)

* Refer to list of cables at the end of this document
Three motors with local zoom demand – Focus, Iris & Zoom

MN-300

Fujinon compatible Zoom demand, otherwise adaptor cable is needed **

Record start/stop cable *
Power cable / combined power & record start/stop cable *

Iris  Focus  Zoom
Heden M21/26 VE; Betz BTM-7 or compatible

Wireless communication in MHz Range (Channel 0..4)
Wireless communication in GHz Range (Channel 5..F)

* Refer to list of cables at the end of this document
** Wireless Zoom function via keypad on hand unit
Three motors with two hand units – Focus, Iris & Zoom

MN-300 + MN200T

MN-200T (controls Motor 1 (F) and Motor 2 (Zoom via Keypad); ID set to 1

MN-200T (controls Motor 2 (I); ID set to 2

Fujinon compatible Zoom demand, otherwise adaptor cable is needed **

Record start/stop cable *

Combined power & Cine Tape cable *

Cine Tape Measure will be displayed on both MagNum hand units

Wireless communication in MHz Range (Channel 0..4)

Wireless communication in GHz Range (Channel 5 ..F)
**Single motor + wireless head light control via DMX**

**MN-200 + MN200T**

- **MN-200T** (controls Motor 1 (F); ID set to 1)
- **DMX- Signal from lighting console**
- **MN-200T** (controls Channel 2 (I); ID set to 2)
- **Power cable**
- **Control of Litepanels Mini LED light or Chrosziels bulb light dimmer box AL-LS (motor channel 2 is in “Dimmer mode”)**
- **Heden M21/26 VE; Betz BTM-7 or compatible**

*Refer to list of cables at the end of this document*
Direct control of a servo lens unit (ENG lens)

MN-200 + Fujinon servo lens (Cabrio)

Reduce cost, weight and complexity

MN-200T
Activate desired control functions
(F/I/Z) in “Motor Setup” menu

MN-200R

MagNum lens servo connection cable *

Power cable *

Fujinon Servo Lens with 10 or 20 pin Hirose control socket, if 20 pin socket, lens is powered through the MagNum connection cable as well

Wireless communication in MHz Range (Channel 0.. 4)
Wireless communication in GHz Range (Channel 5 ..F)

* Refer to list of cables at the end of this document
Direct control of a servo lens unit (ENG lens)

MN-200 + Canon servo lens

Reduce cost, weight and complexity

MN-200T
Activate desired control functions (F/i/Z) in “Motor Setup” menu

Wireless communication in MHz Range (Channel 0.. 4)
Wireless communication in GHz Range (Channel 5 ..F)

MN-200R

MagNum lens servo connection cable *

Canon servo lens with 20 pin Hirose control socket, if existing use “Remote 3” socket, Magnum controller is powered through the MagNum connection cable, no separate power cable is needed

* Refer to list of cables at the end of this document
**Direct control of a servo lens unit (ENG lens)**

**MN-200 + Angénieux Servo Unit (ASU)**

Reduce cost, weight and complexity

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MN-200T
Activate desired control functions (F/I/Z) in “Motor Setup” menu

Wireless communication in MHz Range (Channel 0.. 4)
Wireless communication in GHz Range (Channel 5 ..F)

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MN-200R
MagNum lens servo connection cable *

Power cable *

Angénieux servo lens with 20 pin Hirose control socket

* Refer to list of cables at the end of this document
Full Broadcast (4k) workflow with cine style zoom lenses

MN-300KIT-BC

Videocam with Cine lens and standard 12 pin Hirose lens port connector

12 pin Hirose Lens port connection cable (Iris control, VTR, RET, F-I-Z-follows) *

Y-Adaptor cable for Zoom & Focus Demands *

Power cable*

Optional MN-100T/MN-200T for set up reasons and additional remote control

MN-EXT-MOT-LP

* Refer to list of cables at the end of this document

Chrosziel GmbH | Klausnerring 6 | 85551 Kirchheim b. München | Germany
Full Broadcast (4k) workflow Canon C-500

MN-300KIT-BC

Y-Adaptor cable 2.5mm jack /12 pin Hirose lens port in (FIZ control from remote panel) *

Optional MN-100T/ MN-200T for set up reasons and additional remote control

Y-Adaptor cable for Zoom & Focus Demands in parallel*

Power cable*

Canon C500 remote panel RC-V100

* Refer to list of cables at the end of this document

MN-200R

MN-EXT-MOT-IP

Iris Focus Zoom

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**Wired operation via serial connection cable**

**MN-200/300**

Serial connection cable (7pin/9pin Lemo)

MN-200T, activate serial mode in configuration menu for hand unit

MN-200R

Power cable*

* Refer to list of cables at the end of this document
Two axis s3D Rig control

MN-200

Serial connection cable (7pin/9pin Lemo) or wireless connection

MN-200T, activate serial mode in configuration menu for hand unit

MN-200R

Power cable*

Motor cables to 3D rig: IA & Convergence control with internal or external motors.
Switch motor channels to "Rig" mode for enabling best adoption to 3D rig special long moving distances

* Refer to list of cables at the end of this document
Controller box mounting

MN-RMB1 + MN-RMB2

Universal 15/19mm lens support with additional mounting shoe for MN-RMB1

MN-RMB1 slides directly into the hot shoe of the camera
### Power cables

<table>
<thead>
<tr>
<th>Connection Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anton-Bauer D-Tap</td>
<td>MN-AB</td>
</tr>
<tr>
<td>XLR 4-Pin</td>
<td>MN-XLR4</td>
</tr>
<tr>
<td>Hirose 4-Pin (Low Power, Reduce Motor Performance)</td>
<td>MN-H4</td>
</tr>
<tr>
<td>ARRI Cameras 12V Fischer 11-Pin</td>
<td>MN-ARRI12</td>
</tr>
<tr>
<td>MK-V Lemo 3-Pin</td>
<td>MN-MKV</td>
</tr>
<tr>
<td>Pro / Artemis Lemo 4-Pin</td>
<td>MN-PRO</td>
</tr>
<tr>
<td>RED AUX Lemo 0B 4-Pin</td>
<td>MN-REDAUX</td>
</tr>
<tr>
<td>Betz RIG Lemo 3-Pin</td>
<td>MN-RIG</td>
</tr>
<tr>
<td>SteadiCam Master Lemo 12V Lemo 2-Pin</td>
<td>MN-STM</td>
</tr>
<tr>
<td>SteadiCam Ultra / Archer / Clipper 12V Lemo 3-Pin</td>
<td>MN-STU12</td>
</tr>
<tr>
<td>SteadiCam Ultra 24V Lemo 3-Pin</td>
<td>MN-STU24</td>
</tr>
<tr>
<td>Open End</td>
<td>MN-POW-O</td>
</tr>
</tbody>
</table>
## Camera Run (Record Start/Stop) cables

<table>
<thead>
<tr>
<th>Camera Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aaton Cameras Lemo 2-Pin</td>
<td>MN-COFAA2</td>
</tr>
<tr>
<td>Aaton Cameras Lemo 6-Pin</td>
<td>MN-COFAA6</td>
</tr>
<tr>
<td>Arri Cameras Fischer 11-Pin</td>
<td>MN-COFA</td>
</tr>
<tr>
<td>Arri Alexa / MovieCam / Sony / Pro35 Adapter / SI-2K Fischer RS 3-Pin</td>
<td>MN-COFA-M</td>
</tr>
<tr>
<td>Canon EOS xD Remote Connector 3-Pin</td>
<td>MN-COFEOS</td>
</tr>
<tr>
<td>LANC™ 2,5mm Jack</td>
<td>MN-COFL</td>
</tr>
<tr>
<td>Moviecam Compact Fischer 2-Pin</td>
<td>MN-COFMOV</td>
</tr>
<tr>
<td>Panavision Cameras Lemo 10-Pin</td>
<td>MN-COFPAN</td>
</tr>
<tr>
<td>RED EPIC / Scarlett Lemo 00B 4-Pin at Sync Socket</td>
<td>MN-COFEOOB</td>
</tr>
<tr>
<td>RED EPIC / Scarlett BNC for 3x Splitcable</td>
<td>MN-COFEBNC</td>
</tr>
<tr>
<td>RED One Lemo 0B 4-Pin at top AUX-Out Socket in Default-Configuration</td>
<td>MN-COFRF1</td>
</tr>
<tr>
<td>Sony F5 / F55 Hirose 4-Pin</td>
<td>MN-COF55</td>
</tr>
<tr>
<td>Video Camera (for Film Style or Prime Lenses) Hirose 12-Pin</td>
<td>MN-COFV-V</td>
</tr>
<tr>
<td>Fujinon Video Lens 12-Pin</td>
<td>MN-COFVF</td>
</tr>
<tr>
<td>Canon Video Lens 8-Pin</td>
<td>MN-COFVC</td>
</tr>
</tbody>
</table>
## Combined Power with Camera Record Start/Stop cables

<table>
<thead>
<tr>
<th>Camera Model</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aaton Cameras Lemo 6-Pin</td>
<td>AA-A2-P-CAM</td>
</tr>
<tr>
<td>ARRI Alexa / Moviecam SL / Sony 24V Fischer RS 3-Pin</td>
<td>RS-A2-P/CAM</td>
</tr>
<tr>
<td>ARRI Cameras 12 Volt 11-Pin Fischer</td>
<td>ARRI-A2-P/CAM</td>
</tr>
<tr>
<td>Panavision / Millenium 24V Lemo 10-Pin</td>
<td>PAN-A2-P/CAM</td>
</tr>
<tr>
<td>Sony F5 / F55 12V Hirose 4-Pin (Low Power, Reduce Motor Performance)</td>
<td>F55-A2-P/CAM</td>
</tr>
</tbody>
</table>
### Motor cables

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>60cm Standard cable</td>
<td>MOTD60</td>
</tr>
<tr>
<td>100cm Standard cable</td>
<td>MOTD100</td>
</tr>
<tr>
<td>60cm ARRI CLM4</td>
<td>MOTD-CLM4</td>
</tr>
<tr>
<td>Fujinon Digital Drive Hirose 20-Pin</td>
<td>MN-FJNHR20</td>
</tr>
<tr>
<td>Fujinon older Lenses Hirose 10-Pin</td>
<td>MN-FJN</td>
</tr>
<tr>
<td>Canon Hirose 20-Pin</td>
<td>MN-PMCD</td>
</tr>
<tr>
<td>Angenieux Digital Drive Hirose 20-Pin</td>
<td>MN-ANG</td>
</tr>
</tbody>
</table>
### Special cables

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adaptor for simultaneous operation of a Fujinon Focus and Zoom Demand</td>
<td>MN-FZ-FA</td>
</tr>
<tr>
<td>(12pin Hirose Plug to 2x 12pin Hirose socket)</td>
<td></td>
</tr>
<tr>
<td>Adaptor for simultaneous operation of a Canon Focus and Zoom Demand</td>
<td>MN-FZ-CA</td>
</tr>
<tr>
<td>(with analogue output signal (20pin Hirose Plug to 2x 20pin Hirose socket))</td>
<td></td>
</tr>
<tr>
<td>CineTape input cable (on 12 Hirose socket)</td>
<td>MN-CTHR12</td>
</tr>
<tr>
<td>Combined CineTape input and power in (on 5 pin Lemo socket)</td>
<td>MN-CT</td>
</tr>
<tr>
<td>Control Cable for LitePanel LED lights</td>
<td>AL-LP</td>
</tr>
<tr>
<td>DMX input cable with 5 pin male XLR plug</td>
<td>MN-DMX</td>
</tr>
<tr>
<td>Direct serial connection from one hand unit to motor control box</td>
<td>MN-SER-TX</td>
</tr>
<tr>
<td>Connection of the lens port socket of the module MN-EXT-MOT-LP (Hirose</td>
<td>AL2-INTF-LP</td>
</tr>
<tr>
<td>12pin) to a Camera Lens Port (Hirose 12pin) for Iris control and RET/VTR</td>
<td></td>
</tr>
<tr>
<td>feedback</td>
<td></td>
</tr>
<tr>
<td>Further cables on request ...</td>
<td></td>
</tr>
</tbody>
</table>