FloatCam
MotionControl
INSTRUCTION MANUAL

FloatCam

FLOATCAM MOTION CONTROL
for DollyCrane / DC Slider
ver. MC-003 RF (wireless + cable)

Package Includes:
- Stepper Motor
- Microprocessor Remote Controller
- Motor to Microprocessor Remote Controller Connection Cable
- Power Suplly 12V / 1.5-2A
- Motor Mounting Hardware Set (Plate + set screws)

Optional Accessories:
Camera Control Cable for DSLR's (will control Shutter and Exposure)

- CANON C6 - EOS 30/33/50/300/300D (Digital Rebel)/350 D (XT)/
  400 D (Xti)/ 450 D (XSi)/1000D (XS)/500D (T1i)/550D (T2i)/60D
- CANON C8 - EOS 10D/20D/30D/40D/50D/5D/7D/1D/1Ds MarkI-IV
- NIKON N8 - N90s/F5/F6/F100/F90X/D1/D1H/D1X/D2/D3/D4/
  D2Hs/D2X/D2Xs/D200/D300/D700/D800
- NIKON N10 - D90/D3100/D5000/D7000

Motion Control Functions:
Manual Movement, Programmed Movement, Save and Repeat Movement,
Time Lapse, Time Lapse after Shots, Stop Motion, Stop Motion Distance

The Motion Control System comes with factory presets to control camera movement. These presets can be easily changed as needed. Motion control allows manual movement and programmed movement. Every movement, manual or programmed may be recorded and stored for later use. There are nine persistent banks and one volatile bank available. Each movement can be repeated up to 999 times and extended up to 99 times. When using Canon and Nikon DSLR's, it is possible to control the shutter speed and exposure from the remote controller with the use of an accessory camera control cord. Have fun and enjoy your Motion Control System.

DO NOT USE OR INSTALL THE MOTION CONTROL SYSTEM
WITHOUT PROPERLY COUNTERBALANCING THE DOLLYCRANE / DC SLIDER!

PLEASE REVIEW AND COMPLETE THE COUNTERBALANCE
STEPS IN THE DOLLYCRANE / DC SLIDER MANUAL BEFORE USING THE MOTION
CONTROL SYSTEM! FAILURE TO PROPERLY COUNTERBALANCE
THE SYSTEM MAY CAUSE THE SYSTEM TO MALFUNCTION
AND/OR MAY PERMANENTLY DAMAGE THE SYSTEM. IMPROPER
COUNTERBALANCE MAY ALSO LEAD TO SHAKING OF THE RAIL,
LOUD NOISE AND SYSTEM ERRORS.

Lemo and power cables are not covered under warranty

The Controller

1. Socket (Lemo 4 Pin) for cable
to connect the stepper motor to
the remote controller (for cable mode)
2. Antenna
3. Right direction button
4. Left direction button
5. LCD display
6. Menu Button and
 ON-OFF Power Button
 (press 5 sec. to OFF)
7. Control buttons
8. Ramping knob
9. Speed range knob
10. Speed Knob
11. Charging socket / Power 12V 1.5 A
 (positive pin inside)

Important:
- Pressing buttons 3 & 4 simultaneously will reset
the Remote Control.

The Motor

12. Socket (Lemo 4 Pin) for cable
to connect the stepper motor to
the remote controller (cable mode)
13. Power 12V 1.5A
(positive pin inside)
14. Socket (mini Canon 3 pin)
for cable to control shutter and
exposure of DSLR camera.

The Battery

Remote Controller has built-in battery (4x 1.2V AAA battery).
Before first using Motion Control charge the battery using 12V Power Supply
for motor.
Important
In the case of discharged battery it is possible to work in cable mode.
Connect Lemo cable between remote controler and motor . Than power the
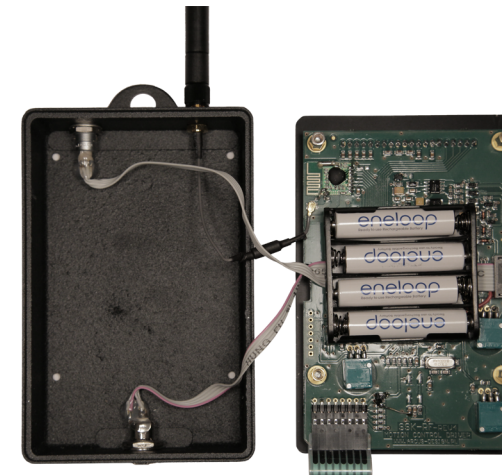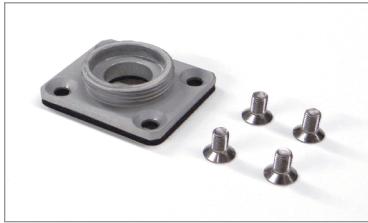motor using 12V power supply.

When the batteries become dead,
open the remote controller and
change the four 1.2V AAA batteries
with new ones.
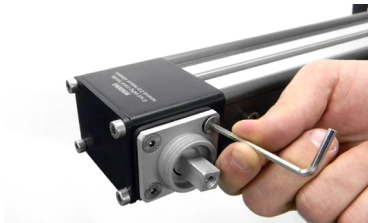Be sure to recycle the old batteries
properly.

Installation of the System and Setting Distance Limits 'Virtual Ends of the Rail'
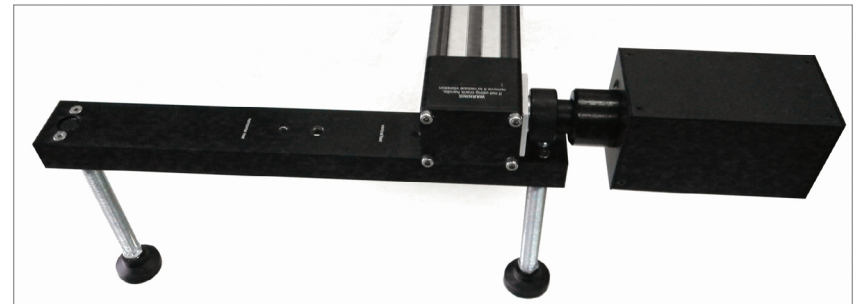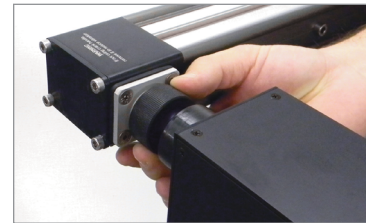

1. Install the motor mounting plate onto the slider with the 4 setscrews and allen wrench.


2. Mount the motor onto the plate using the rotating threaded ring.

2a. Makes sure to firmly secure the motor to the mounting plate.

2b. IMPORTANT: When using the system in vertical and angled positions place the end of the rail with connected motor to the top.

In low profile mode, you will have to use the motor side foot support off center as the motor prevents the use of the levelers. Use the 3/8" (larger thread) threaded hole on the foot titled 'vertical foot' to mount the foot off center on the slider. It is not neccessary for HD version.
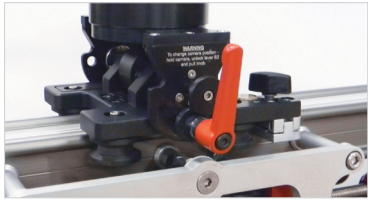
3. Move the camera carriage to the middle of the rail. This is very important as this will allow the system to determine its position on the rail once it is turned on.

CABLE MODE only

4. Use the cord provided to connect the remote controller to the motor. The ends of the cord have small red dots on the Lemo plugs that will line up with corresponding red dots on the motor and remote controller Lemo sockets.


5. Plug in the power cord to the motor and then the power source. The motor does not come with an on/off switch.

6. In cable mode is possible to use 2 m long Lemo Cable.
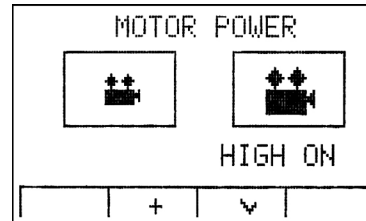On request, Lemo cables can be customized in lengths up to 500m long.
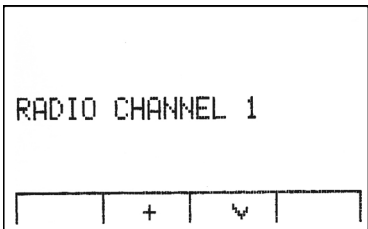
RADIO CHANNEL 1

WIRELESS MODE
To change Radio Channel (if neccessary) connect Lemo cable between motor and remote controller. After changing the chanel disconnect the cable.
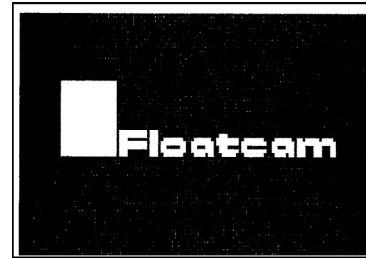
6. Start Window will appear.

MOTOR POWER

HIGH ON

7. Set motor power to low or to high. High mode is for heavy cameras.

MOTOR POWER

LOW ON

VER 3.0 3.0
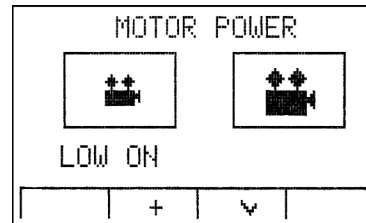
Serial number of the remote controler and the motor.

SET REFERENCE

-CARRIAGE-
MIDDLE OF THE RAIL
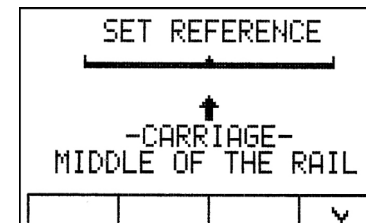
8. The 'SET REFERENCE' screen will then appear and accept it by hitting the blinking ˅ on the bottom right. This will notify the system that the camera carriage is in the middle of the rail and will allow the system to determine its position when in motion. The stepper motor may lose steps during movement if the brake is set

```
POSITION      000.0
SPEED         00.0cm/s
RAMPING       10
SPEED RANGE   20cm/s

   [              ]

 ▶□◀  │  SET  │  ●  │  ▶
```
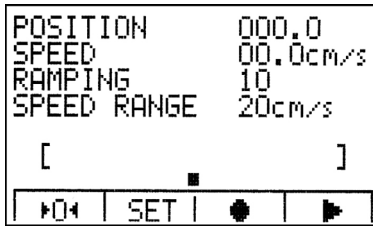
9. The system will then load to the main screen. This will take a few seconds. You can now use the dial knobs to make moves, adjust speed and ramping.

NOTE:

▶□◀ Press to move the camera carriage to the middle of the rail (0 position)

```
▶SPEED MODE       ↘◻↗
▶DISTANCE LIMIT
▶REPEAT MOVEMENT  001
▶EXTEND            01


 ↓  │  ∨  │     │
```

10. You may change Speed Mode in the SET menu. You have two options for Speed Mode.
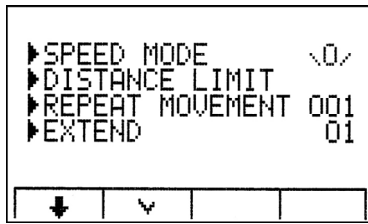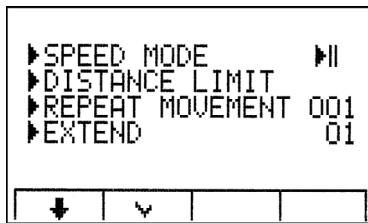
↘◻↗ Steering Mode

```
▶SPEED MODE       ▶‖
▶DISTANCE LIMIT
▶REPEAT MOVEMENT  001
▶EXTEND            01


 ↓  │  ∨  │     │
```

▶‖ Directional Selection Mode

↘◻↗ Steering Mode

Directional Selection Mode

▶‖ to the right

‖◀ to the left

11. The system comes with pre-set distance limits. To change or set the distance limits, please follow the steps following this section. Distance limits or 'virtual ends of the rail' prevent the camera platform from making contact with ends of the rail. Once you have set them, the remote controller will remember these settings for future use. You may reset or modify the distance limits at anytime.

```
    SET
```

Setting or Modifying the Distance Limit

```
▶SPEED MODE       ↘◻↗
▶DISTANCE LIMIT
▶REPEAT MOVEMENT  001
▶EXTEND            01
▶MOTOR POWER      HIGH

 ↓  │ [●] │  +  │
```
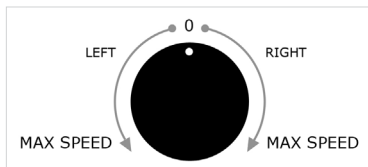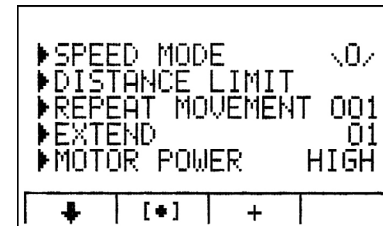
1. From the main screen, select the button on the bottom of the screen titled 'SET'. Set 'SPEED MODE' to ↘◻↗

2. Toggle down to the function titled 'DISTANCE LIMIT' by using the ↓ down arrow button until the right arrow ▶ on the 'distance limit' option is flashing. Select it by using ∨ button on the bottom of the screen.

3. Brake [●] lock or ulock the motor.

```
DISTANCE LIMIT
POSITION    075.0▸
 ▸ OFF
 ▸ LEFT  ◂001.0
 ▸ RIGHT   001.0▸

┌─────┬─────┬─────┬─────┐
│  ↓  │     │  +  │     │
└─────┴─────┴─────┴─────┘
```
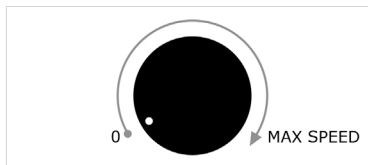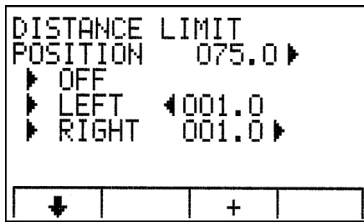
3. The 'DISTANCE LIMIT' screen will appear showing the current position of the camera platform on the rail, whether the distance limit is on or off, and where the current limits are set on both the right and the left.

4. The system gives the option of 'DISTANCE LIMIT' ON or OFF. By using the plus ✛ button on the bottom of the screen, you can toggle between on and off as desired. Keep it in the OFF position when setting the limits.

5. In the 'DISTANCE LIMIT' OFF position, use the large knob on the camera carriage to move the camera platform to the left or the right. You will see the position point change on the top of the screen as the camera carriage moves along the rail. It will also indicate whether the value is to the left or the right of the center of the rail with ◂ left or ▸ right symbols.

```
              ◂020.3

 ▸ OFF
 ▸ LEFT  ◂001.0
 ▸ RIGHT   075.0▸
              ▃▃▃▃▃

┌─────┬─────┬─────┬─────┐
│  ↓  │  ⌄  │     │     │
└─────┴─────┴─────┴─────┘
```
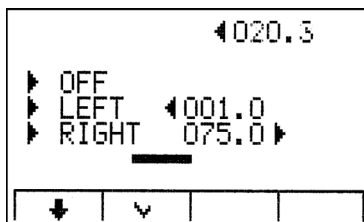
6. If you moved the camera carriage to 'X' point on the left, toggle down using the down ↓ arrow on the bottom of the screen until the 'LEFT' option is blinking and accept it with the ⌄ button on the bottom of the screen.

7. Repeat the last step but move the camera carriage to the opposite side and select the distance limit desired.

8. Set 'DISTANCE LIMIT' ON.
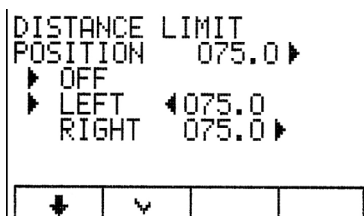
9. NOTE: Distance limits prevent the camera platform from making contact with the ends of the rail. Most users will prefer to have the distance limits as close to the end of the rail as possible, but it is your personal preference.

IMPORTANT: Carriage inertia will ocur 0.5-3 cm upon striking the ends of the rail.

```
DISTANCE LIMIT
POSITION    075.0▸
 ▸ OFF
 ▸ LEFT  ◂075.0
   RIGHT   075.0▸

┌─────┬─────┬─────┬─────┐
│  ↓  │  ⌄  │     │     │
└─────┴─────┴─────┴─────┘
```

Manual Movement, Record, Save and Repeated Movements

1. The remote controller comes with one large knob and two small knobs on the face of the system. They are labeled speed, speed range, and ramping.

2. The large speed knob controls the camera carriage speed and movement both to the left and to the right in mode ↘◻↗. Turning this knob to the left/right will cause the system to go left/right at the speed of X. X is determined by knob adjustment and speed range. In directional speed mode ▸‖ the large knob will control speed only. Direction of the camera carrage is changed by ▸‖ or ‖◂ button.

3. The speed range knob controls top speed. You have the option of setting this from 1 to 20cm a second. As you turn this knob, you should notice the speed range change on the screen.

NOTE: you may not adjust this while the system is in motion.

4. The ramping knob controls how fast/slow the system gets up to the top speed or how fast/slow the camera carriage comes to a stop. You have the option of adjusting this from 1-10 (0.5-2.5sec.).

NOTE: you may not adjust this while the system is in motion.

5. To record a move, use the system to move the platform to the desired start position. Make sure to set the speed range and ramping to your preference.

```
POSITION        075.0▸
SPEED           00.0cm/s
RAMPING         10
SPEED RANGE     20cm/s

 [        ▪         █

┌──────┬─────┬─────┬─────┐
│ ▸◻◂  │ SET │  ●  │  ▸  │
└──────┴─────┴─────┴─────┘
```

6. Select the record button on the bottom of the screen and make your move. Press the record button again when you are finished.

```
POSITION      075.0▶
SPEED         00.0cm/s
RAMPING       10
SPEED RANGE   20cm/s

  [                    ▌

│ ▶0◀ │ SET │  ●  │  ▶  │
```

```
▶ TIMELAPSE CONTINUOUS
▶ TIMELAPSE AFTER-SHOT
▶ STOP MOTION DISTANCE
▶ STOP MOTION SHOTS
  MEMORY

│  ▼  │  ∨  │     │     │
```

```
         MEMORY

▶ SAVE AS    9
▶ READ       4


│  ▼  │  ∨  │  +  │     │
```

```
POSITION      075.0▶
SPEED         00.0cm/s
RAMPING       10
SPEED RANGE   20cm/s

  [                    ▌

│ ▶0◀ │ SET │  ●  │  ▶  │
```
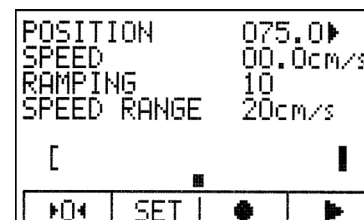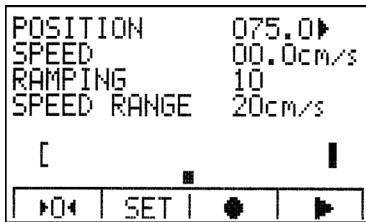
7. To play your shot, press play to the right of the record button. The camera carriage will then move to the starting position and stop. You must hit play once more to activate your recorded move. You may play your shot as many times as you need.
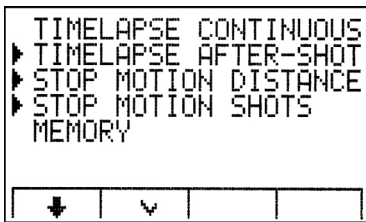
8. You may also save the shot by selecting the menu button on the top right of the remote controller and toggling down ▼ to the ▪ MEMORY function and selecting it with the ∨ button on the bottom.
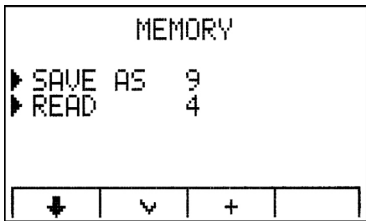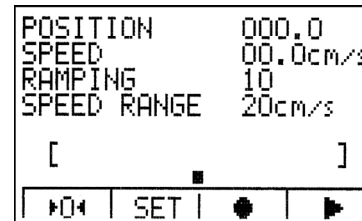
9. A new menu will appear show ing SAVE AS and READ. SAVE AS is where you save or re-write recorded moves and READ is where you select them to play. You have the option of saving up to nine different shots by using the ＋ button on the bottom of the screen to select 1-9. Once you have toggled ▼ to the # desired memory cell in which you would like to save your shot, select it by hitting the ∨ button on the bottom. If the shot has been saved properly, DONE will appear next to SAVE AS.

10. If you want to play or READ your saved shot(s), toggle ▼ to READ and use the ＋ button on the bottom to scroll through 1-9. Select your shot by using the ∨ button. DONE will appear next to READ and it will then take you to the main screen.
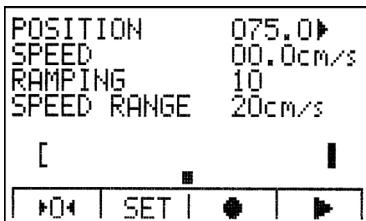
11. Once you are on the main screen, give it a few seconds to load and then you may press play on the bottom right. The camera carriage will then move to the starting position of the program. Press play once more to start the program.

```
POSITION      000.0
SPEED         00.0cm/s
RAMPING       10
SPEED RANGE   20cm/s

  [                    ]
              ▪
│ ▶0◀ │ SET │  ●  │  ▶  │
```

```
▶ SPEED MODE        \0/
▶ DISTANCE LIMIT
▶ REPEAT MOVEMENT 999
▶ EXTEND           01


│  ▼  │  -  │  +  │  ▶  │
```

```
POSITION      075.0▶
SPEED         00.0cm/s
RAMPING       10
SPEED RANGE   20cm/s

  [                    ▌

│ ▶0◀ │ SET │  ●  │ ▶▶  │
```

12. If you want stop the program while it is running, hit the 'MENU' button on the top right of the remote controller. You can now control the system manually or if you want to re-start the program, hit the play ▶ button again on the bottom right of the screen. The camera carriage will move to the start of the program. Hit play ▶ once more to start the program.

Repeat Movement
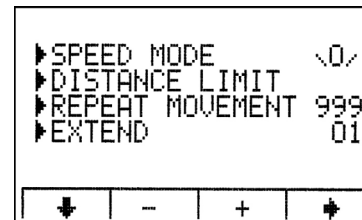
1. You may also set the system to repeat and loop saved and recorded moves from 001-999 times. To do this, select the SET function on the bottom of the screen and toggle down ▼ to REPEAT MOVEMENT. You may then toggle to the right ### number field and use the ━ ＋ keys on the menu to change to value desired. Select MENU to exit to the main screen.
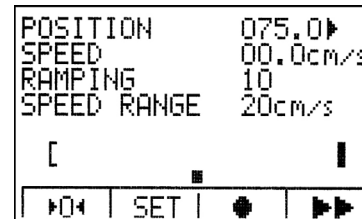
2. If you select the ▶ (play button) again or if you play a saved program, the program will repeat itself according to the ### what you set . Once you unplug the system, the repeat setting will go back to 0, but you will not lose your saved programs.

Time Extension
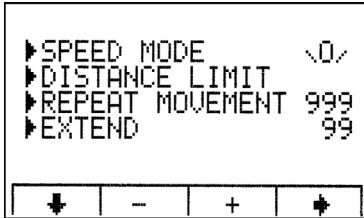
1. Time Extension or 'EXTEND' will allow the user to extend the time of a programmed or saved movement up to 99 times. Example: If your current movement is 10 seconds long, you may extend it to 20 seconds by changing the 'EXTEND' to 2. Or if you change it to 3, your movement will now take 30 seconds long. 4 will take 40 seconds and so on. This is an easy way to slow your movement down and increase the amount of time it takes to complete it.
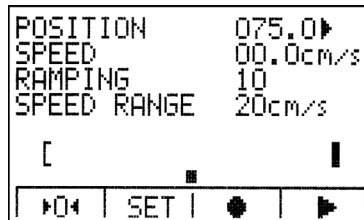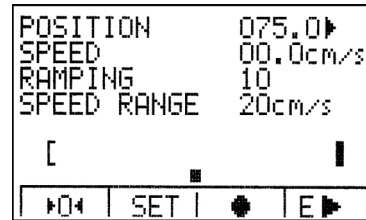
2. To 'EXTEND' your movement time, go to the SET function on the bottom of the screen. Toggle down ⬇ until you get to the 'EXTEND' function. Use the ➡ arrow to toggle over to the number field and use the ➖ ➕ signs to increase or decrease your 'EXTEND' time. Hit the MENU button when finished to take you back to the main screen.
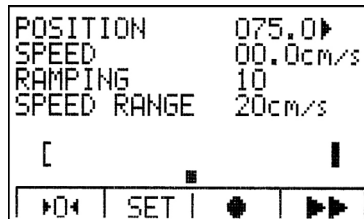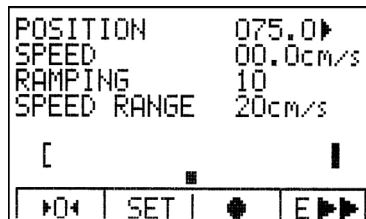
```
▶SPEED MODE        ＼0╱
▶DISTANCE LIMIT
▶REPEAT MOVEMENT  999
▶EXTEND            99

┃  ⬇  ┃  ➖  ┃  ➕  ┃  ➡  ┃
```

Repeat and Time Extension Icons

```
POSITION     075.0▶
SPEED       00.0cm/s
RAMPING        10
SPEED RANGE  20cm/s

[              ▌
┃▶0◀┃ SET ┃ ● ┃ ▶ ┃
```
Single movement play

```
POSITION     075.0▶
SPEED       00.0cm/s
RAMPING        10
SPEED RANGE  20cm/s

[              ▌
┃▶0◀┃ SET ┃ ● ┃E▶┃
```
Extend and single movement play

```
POSITION     075.0▶
SPEED       00.0cm/s
RAMPING        10
SPEED RANGE  20cm/s

[              ▌
┃▶0◀┃ SET ┃ ● ┃▶▶┃
```
Repeat movement play

```
POSITION     075.0▶
SPEED       00.0cm/s
RAMPING        10
SPEED RANGE  20cm/s

[              ▌
┃▶0◀┃ SET ┃ ● ┃E▶▶┃
```
Extend and repeat movement play
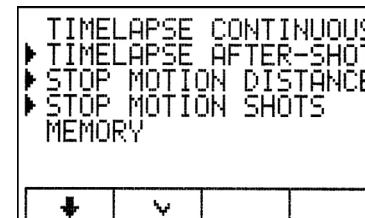
Time Lapse and Stop Motion

Time Lapse Continuous

Time lapse Continuous mode allows for continuous movement across the slider during the time-lapse process. In this mode it is possible to set the total movement time, number of shots and control the shutter and exposure of a DSLR camera (in Manual mode).
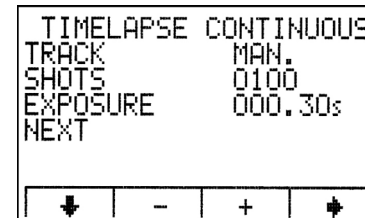The exposure time works effectively only if DSLR camera is set to bulb exposure mode. To control exposure by the camera, set the exposure time of Motion Control to 0.3 sec. and set camera to non-bulb mode. It is also possible to trigger multiple image sequences from Motion Control. It is especially useful for shooting HDR, exposure-bracketed time-lapse or multiple constant-exposure shots for noise reduction in post production. To do so, set camera to continuous shooting mode and set the exposure bracketing as desired. In Remote Controller set the total exposure time to slightly exceed the total time of exposures of DSLR camera.

Time-lapse Continuous has two possible track settings:
1. Manually set START and STOP position
2. READ recorded movement from the memory

```
 TIMELAPSE CONTINUOUS
▶TIMELAPSE AFTER-SHOT
▶STOP MOTION DISTANCE
▶STOP MOTION SHOTS
 MEMORY

┃  ⬇  ┃  ⌄  ┃     ┃     ┃
```
⌄ Accept

```
 TIMELAPSE CONTINUOUS
TRACK           MAN.
SHOTS          0100
EXPOSURE     000.30s
NEXT

┃  ⬇  ┃  ➖  ┃  ➕  ┃  ➡  ┃
```
Set track manually - START and STOP position

or
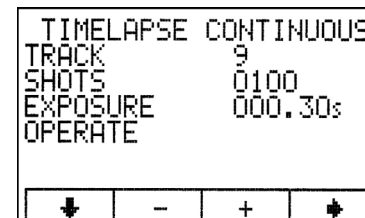
```
 TIMELAPSE CONTINUOUS
TRACK            9
SHOTS          0100
EXPOSURE     000.30s
OPERATE

┃  ⬇  ┃  ➖  ┃  ➕  ┃  ➡  ┃
```
READ track from the memory e.g. bank 9

SET TRACK MANUALLY

Set Track Manually

```
 TIMELAPSE CONTINUOUS
TRACK         MAN.
SHOTS         0100
EXPOSURE      000.30s
NEXT


 ↓  |  –  |  +  |  ➡
```
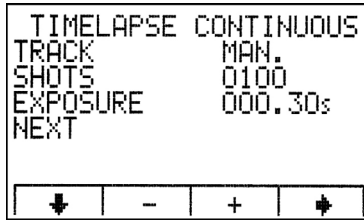
- Set track manually
- Set number of SHOTS for DSLR cameras
- Set EXPOSURE for bulb mode for DSLR cameras

```
TL.CONT.
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:00:10
OPERATE      START


 ↓  |  –  |  +  |  ➡
```
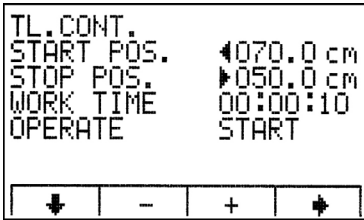
- Set START position (e.g. 70 cm left from the middle of the rail)
- Set STOP position (e.g. 50 cm right from the middle of the rail)
- Set WORK TIME (e.g. 10 sec.)

```
TL.CONT.          ◠
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:00:10
OPERATE      GO TO


 ↓  |  ⌄  | TEST |
```
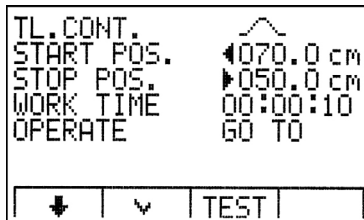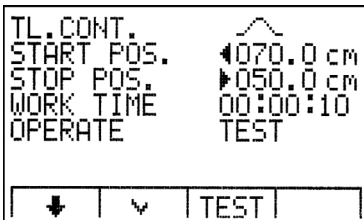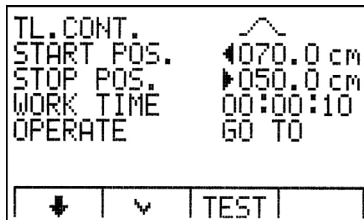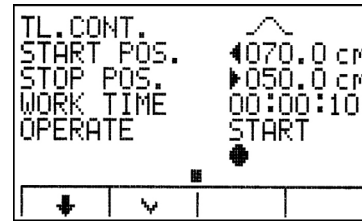
- Movement with set ramping for fast movements.

```
TL.CONT.          ◠
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:00:10
OPERATE      TEST


 ↓  |  ⌄  | TEST |
```

- It is possible to TEST the set camera carriage movement with factory speed.

```
TL.CONT.          ◠
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:00:10
OPERATE      GO TO


 ↓  |  ⌄  | TEST |
```

- Or start to play by pressing ⌄

```
TL.CONT.          ◠
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:00:10
OPERATE      START
                 ●

 ↓  |  ⌄  |     |
```

- Single movement

```
TL.CONT.          ◠
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:01:49
OPERATE      START
                 ●   000

 ↓  |  ⌄  |     | ⌄⌄
```

- Repeat movement (if repeat is set)
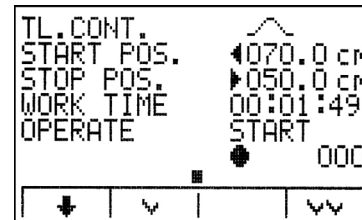
```
TL.CONT.          ⊓
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    99:59:59
OPERATE      GO TO


 ↓  |  ⌄  | TEST |
```
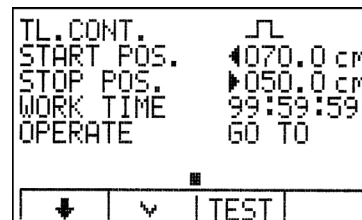
- Movement without ramping for slow movements

```
TL.CONT.         000.1
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    09:59:01
OPERATE      START
  ▬▬▬▬         ●

 ↓  |  ⌄  |  ‖  |
```

- Single movement

```
TL.CONT.          ◠
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:01:49
OPERATE      START
                 ●   000

 ↓  |  ⌄  |     | ⌄⌄
```
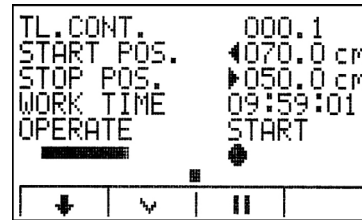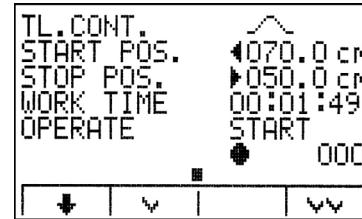
- Repeat movement (if repeat is set)

TRACK READ FROM MEMORY

```
 TIMELAPSE CONTINUOUS
TRACK         9
SHOTS         0100
EXPOSURE      000.30s
OPERATE       GO TO

| ↓ | ∨ | TEST |     |
```

• READ track from the memory e.g.
  bank 9.
• Set SHOTS number for DSLR cameras
• Set EXPOSURE for bulb mode for DSLR
  cameras

```
 TIMELAPSE CONTINUOUS
TRACK         9
SHOTS         0100
EXPOSURE      000.30s
OPERATE       TEST
                ■
| ↓ | ∨ | TEST |     |
```

• It is possible to TEST the set camera
  carriage movement with factory speed

```
 TIMELAPSE CONTINUOUS
TRACK         9
SHOTS         0100
EXPOSURE      000.30s
OPERATE       GO TO

| ↓ | ∨ | TEST |     |
```

• Or start to play movement
  by pressing ∨

```
TL.CON.       0056
TRACK         9
SHOTS         0100
EXPOSURE      000.30s
OPERATE       START
▬▬▬▬          ●
            ■
| ↓ | ∨ |    |     |
```

• Single movement

```
TL.CON.       0056
TRACK         9
SHOTS         0100
EXPOSURE      000.30s
OPERATE       START
▬▬▬           ●
            ■
| ↓ | ∨ |    | ∨∨ |
```

• Repeat movement (if set to repeat)

TIMELAPSE SHOT-AFTER-SHOT

TIMELAPSE SHOT-AFTER-SHOT

Timelapse Shot-after-Shot works
similarly to the continuous timelapse mode, but the camera stops before each shot.
In this mode it is possible to set total movement time, number of shots and control
shutter and exposure of DSLR camera (in Manual mode). The exposure time works
effectively only if DSLR camera is set to bulb exposure mode. To control exposure by
the camera, set the exposure time of Motion Control to 0.3 sec. and set camera to
non-bulb mode.
It is also possible to trigger multiple image sequences from Motion Control. It is
especially useful for shooting HDR, exposure-bracketed timelapse or multiple
constant-exposure shots for noise reduction in post production. To do so, set
camera to continuous shooting mode and set the exposure bracketing as desired.
In Remote Controller set the total exposure time to exceed slightly the total time of
multiply exposures of DSLR camera.

```
▶ TIMELAPSE CONTINUOUS
  TIMELAPSE AFTER-SHOT
▶ STOP MOTION DISTANCE
▶ STOP MOTION SHOTS
▶ MEMORY

| ↓ | ∨ |    |     |
```

∨ Accept

```
 TIMELAPSE AFTER-SHOT

SHOTS         0100
EXPOSURE      002.00s
NEXT

| ↓ | − | + | ✦ |
```

• Set the number of SHOTS
• Set EXPOSURE for bulb mode
  on the DSLR.

```
TL AFT-SHOTS
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:06:30
OPERATE      START

  ⬇   |  –  |  +  |  ⬆
```

- Set START position (e.g. 70 cm)
- Set STOP position (e.g. 50 cm)
- Set WORK TIME (till 99h:59 min:59 sec.)

Stop Motion Distance Mode allows programmed distance between each shot with 0.1mm accuracy. Every step and shot is initiated manually.

```
TL AFT-SHOTS
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:06:30
OPERATE      GO TO

  ⬇   |  ∨  | TEST |
```

- It is possible to test the set camera carriage movement with factory speed

```
TL AFT-SHOTS
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:06:30
OPERATE      TEST

  ⬇   |  ∨  | TEST |
```

```
▶SPEED MODE        ▶⏸
▶DISTANCE LIMIT
▶REPEAT MOVEMENT  001
▶EXTEND           01

  ⬇   |     |  +  |
```

- Set speed mode to ▶⏸

```
TL AFT-SHOTS
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:06:30
OPERATE      GO TO

  ⬇   |  ∨  | TEST |
```

- Or start to play movement by pressin ∨

```
▶ TIMELAPSE CONTINUOUS
▶ TIMELAPSE AFTER-SHOT
  STOP MOTION DISTANCE
▶ STOP MOTION SHOTS
▶ MEMORY

  ⬇   |  ∨  |     |
```

∨ Accept

```
TL AFT-SHOTS  0099
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:06:30
OPERATE      START
  ████████      ⬤

  ⬇   |  ∨  |  II |
```

- Single movement

```
   STOP MOTION DISTANCE

DISTANCE      004.2 cm

SHOT

  ⬇   |     |     | SHOT
```

Set the camera carriage at the start position.
Set desired interval distance
Press ‖◀ or ▶‖
Camera carriage moves programmed distance.

```
TL AFT-SHOTS  0095
START POS.   ◀070.0 cm
STOP POS.    ▶050.0 cm
WORK TIME    00:03:40
OPERATE      START
  ██████    ⬤   001

  ⬇   |  ∨  |  II | ∨∨
```

- Repeat movements (if repeat is set)

```
   STOP MOTION DISTANCE

DISTANCE      004.2 cm

SHOT ⬤

  ⬇   |     |     | SHOT
```

- Then press SHOT as many times as desired

Once you have taken your shot or shots, press ‖◀ or ▶‖ to move your camera to the next position. Then press SHOT to do shot or shots

STOP MOTION SHOTS

Stop Motion Shots mode allows camera carriage movement with factory settings and uses the programmed number of the shots. In this mode it is possible to set the total movement time, number of shots and control shutter and exposure of the DSLR camera (in Manual mode). The exposure time works effectively only if the DSLR camera is set to bulb exposure mode. To control exposure by the camera, set the exposure time of remote controller to 0.3 sec. and set the camera to non-bulb mode.

```
 ▶ TIMELAPSE CONTINUOUS
 ▶ TIMELAPSE AFTER-SHOT
 ▶ STOP MOTION DISTANCE
   STOP MOTION SHOTS
 ▶ MEMORY

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  ∨  │     │     │
   └─────┴─────┴─────┴─────┘
```
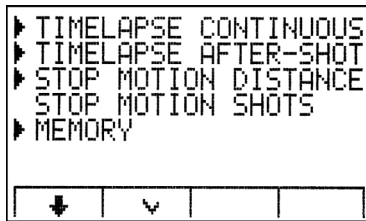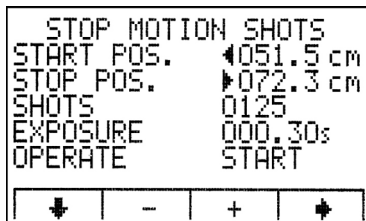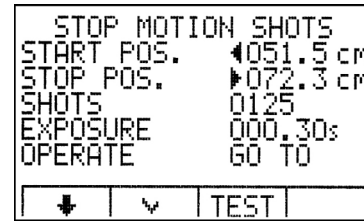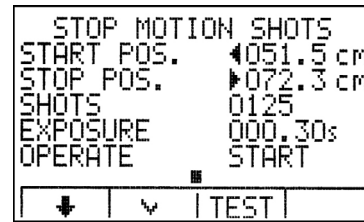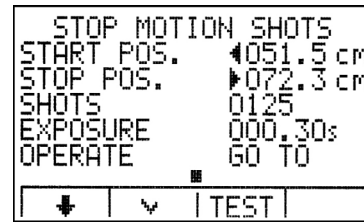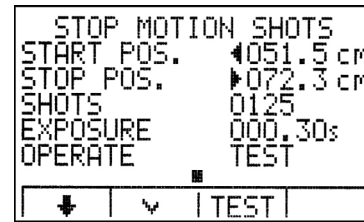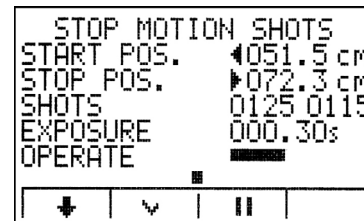
∨ Accept

```
    STOP MOTION SHOTS
 START POS.   ◀051.5 cm
 STOP POS.    ▶072.3 cm
 SHOTS          0125
 EXPOSURE     000.30s
 OPERATE       START

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  −  │  +  │  ↓  │
   └─────┴─────┴─────┴─────┘
```

• Set START and STOP position
• Set number of shots
• Set EXPOSURE to bulb mode on the DSLR.

```
    STOP MOTION SHOTS
 START POS.   ◀051.5 cm
 STOP POS.    ▶072.3 cm
 SHOTS          0125
 EXPOSURE     000.30s
 OPERATE       GO TO

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  ∨  │ TEST│     │
   └─────┴─────┴─────┴─────┘
```

It is possible to test the set camera carriage movement with factory speed.

```
    STOP MOTION SHOTS
 START POS.   ◀051.5 cm
 STOP POS.    ▶072.3 cm
 SHOTS          0125
 EXPOSURE     000.30s
 OPERATE       TEST

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  ∨  │ TEST│     │
   └─────┴─────┴─────┴─────┘
```

```
    STOP MOTION SHOTS
 START POS.   ◀051.5 cm
 STOP POS.    ▶072.3 cm
 SHOTS          0125
 EXPOSURE     000.30s
 OPERATE       GO TO

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  ∨  │ TEST│     │
   └─────┴─────┴─────┴─────┘
```

```
    STOP MOTION SHOTS
 START POS.   ◀051.5 cm
 STOP POS.    ▶072.3 cm
 SHOTS          0125
 EXPOSURE     000.30s
 OPERATE       START

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  ∨  │ TEST│     │
   └─────┴─────┴─────┴─────┘
```

• Start movement

```
    STOP MOTION SHOTS
 START POS.   ◀051.5 cm
 STOP POS.    ▶072.3 cm
 SHOTS          0125 0115
 EXPOSURE     000.30s
 OPERATE      ▬▬▬▬▬▬

   ┌─────┬─────┬─────┬─────┐
   │  ↓  │  ∨  │  ‖  │     │
   └─────┴─────┴─────┴─────┘
```

• Camera carriage moves and makes shots

NOTE: Unplug the power to turn off or reset the system. Unplugging will not erase saved moves, but you will have to set the 'REPEAT MOVEMENT' and 'EXTEND' function. Also, remember to move the camera carriage to the middle of the rail before plugging it back in.

TECHNICAL SPECIFICATIONS

Working speed.	max 1.6m/8 sec. (20cm/sec.)
	min 1.6m/100 hours (0.004mm/sec.)
Ramping	0.5- 2.5 sec.
Power supply	
- Motor	11.4 - 16.8V
- Remote Controller	built-in battery 4x1.2V AAA or external 12V
	power supply (possitive pin inside)
Current consumpion	0.5 - 1.5A
Dimensions:	
- Remote Controller	130x85x30mm
- Stepper motor	130x70x70mm
	160x70x70mm (Motion Control HD)
- Control Lemo cable	2 m
- DSLR cable (optional)	3 m
Weight:	
- Remote Controller	400 g
- Stepper motor	1500 g /1700 g (Motion Control HD)

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FloatCam

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