



Remote Head P10



User Manual P10


			Date of issue : 2020 /01

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1. Equipment Information
1.1 Contents of 2-axis unit

1.	1 x Control panel	<input type="radio"/>	
2.	1 x Base frame	<input type="radio"/>	
3.	1 x Drive module pan-axis	<input type="radio"/>	
4.	1 x Drive module tilt Axis	<input type="radio"/>	
5.	1 x L-handle with base plate	<input type="radio"/>	
6.	2 x 3/8" long attachment bolts	<input type="radio"/>	
7.	Cable set for 2 – Axis version	<input type="radio"/>	
8.	1 x Cable set Zoom/Focus Canon	<input type="radio"/>	
9.	1 x Cable set Zoom/Focus Canon Digital	<input type="radio"/>	
10.	1 x Cable set Zoom/Focus Angenieux	<input type="radio"/>	
11.	1 x set Allen wrench	<input type="radio"/>	
12.	1 x Main control cable 20m	<input type="radio"/>	
13.	1x Double battery adapter V-Mount		
14.	1 x User manual	<input type="radio"/>	
15.	1x AC Adapter 24V	<input type="radio"/>	
16.		<input type="radio"/>	
17.		<input type="radio"/>	
18.		<input type="radio"/>	

1.1a Additional contents of 3-axis unit

1.	1 x Drive module roll axis	<input type="checkbox"/>	
2.	1 x Cable	<input type="checkbox"/>	
3.	1 x L- handle with base plate	<input type="checkbox"/>	
4.	2 x Attachment bolts 3/8" long	<input type="checkbox"/>	
Controls			
5.	One-man control consisting of:		
	1 x Attachment bar with zoom/focus function	<input type="checkbox"/>	
	1 x Adapter for crane 120	<input type="checkbox"/>	
	1 x Joystick handle	<input type="checkbox"/>	
6.		<input type="checkbox"/>	
7.		<input type="checkbox"/>	
8.		<input type="checkbox"/>	
9.		<input type="checkbox"/>	
10.		<input type="checkbox"/>	
11.		<input type="checkbox"/>	
12.		<input type="checkbox"/>	
		<input type="checkbox"/>	
		<input type="checkbox"/>	

Packed on (Date):

Signature :

1.2 Responsibilities of the manufacturer / EC declaration of conformity

EC declaration of conformity for machinery directive 2006/42/EC Annex II 1.A

The manufacturer / distributor

MovieTech AG
Martin-Kollar-Str. 9
D-81829 Munich

hereby explains, that the following product

Product name: P10
Manufacturer: MovieTech
Serial number:
Series/ type name: Remote head product
Description:

P10 is a product for the photography and film industry developed to allow weightless camera movements.

It conforms to all relevant regulations of the above-mentioned directive and the other applied directives (following) – including any current changes thereof at the time of declaration.

The following harmonized standards were applied:

EN ISO 12100-1:2003	Safety of machinery - Basic concepts, general principles for design - Part 1: Basic terminology, methodology (ISO 12100-1:2003)
EN ISO 12100-2:2003	Safety of machinery - Basic concepts, general principles for design - Part 2: technical principles (ISO 12100-2:2003)
EN ISO 14121-1:2007	Safety of machinery - risk evaluation - Part 1: principles (ISO 14121-1:2007)

The following national or international standards (or parts/clauses thereof) and specifications were applied:

Name and address of the person authorized to comply the technical documentation:

Mr. Sigfried Käser Mr. F. Strassmann

Place: Munich

Date: 24.06.2015

1.3 Responsibilities of the operator

Repair requirements

Repair of the P10 is only permitted by the MovieTech AG or authorized contract partners.

Disposal

P10 should not be disposed of in domestic waste. It must be disposed of at a collection site (please check with your municipality) or through your dealer/manufacturer.

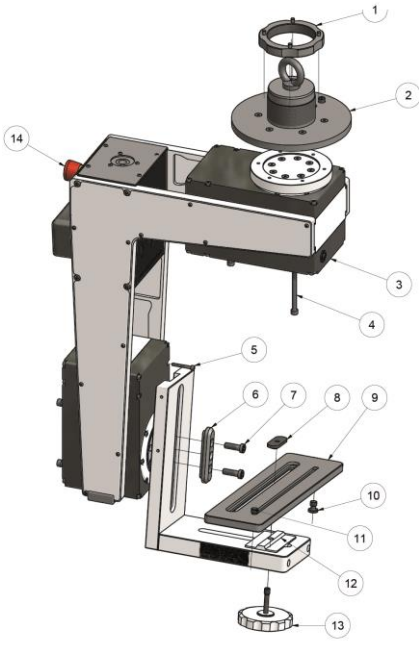
The recipient address is given on the product label. This provides for an environmental friendly disposal.

Care

It is recommended to clean P10 with a damp, clean cloth when dirty. Avoid any caustic or corrosive cleaning agents.

1.4 Exploded drawing with numbering

Note Use the indicated numbers to order any spare parts!

	1	2155_155-6	Nut M70
	2	2155_155-4	Bolt
	3	M6179	Socket
	4	M5811	Hexagon screw
	5	M2116	Screw M4x30
	6	8472-5702	Stone
	7	M5306	Screw M8x25
	8	8472-3003	Stone
	9	8472-3004	Camera plate
	10	N500_00-4	Screw 3/8" long version
	11	N500_00-4	Screw 3/8" long version
	12	8472-3002	Stone
	13	8471-1006	Star handle
	14	M6888	Emergency stop

1.5 External interfaces

P10 may be mounted hanging or standing (upside down) at a sufficiently stable carrier unit suitable for the load (crane or dolly).

P10 is equipped with a mitchell adapter (or optional on request with an 80mm outer diameter) for attachment to film devices such as dollies or camera cranes.

1.6 Legal Notice

The manufacturer's specified limit values must be strictly adhered to. Any excess should be avoided under all circumstances.

In case of accidents due to negligence or abusive use, the manufacturer will not be held liable for any damage or injuries. The assembly and disassembly sequence specified in the user manual must be observed.

Use exclusively original parts for the product's maintenance.

Accessories of other manufacturer, may limit neither the use nor the safe use of P10!

The people entrusted to operate P10, must have read and understood the original user manual of the manufacturer. In case of questions regarding the safe use, please contact the manufacturer. Contact details may be found among other things on the CE marking on the P10 touch panel.

Service life of the equipment:

Service life span is limited by material wear and tear. Therefore, service life depends on frequency of use and environmental conditions, to which P10 is exposed.

2. User manual

Thank you for choosing P10, we are thankful for your confidence.
P10 allows gliding camera movements in horizontal and vertical directions.
We wish you much joy and success with your new ABC products P10!

Your P10 has the following main features:

- quiet propulsion system
- direct programming ramps, speed
- Short assembly and disassembly times

Read this user manual carefully before you use your new equipment for the first time. It contains all the information you need to know on the unit operation, so that you avoid personal injury and property damage.



Carefully observe all safety instructions in this user manual.

Keep this user manual carefully. Give this user manual to the new owner, if you sell or otherwise leave the unit.





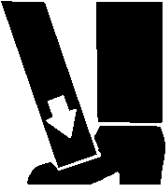


Inform more users on the necessity of reading and understanding the user manual before the first use.

2.1 To understand the user manual correctly

2.1.1 Marking on the unit

	<p>CE mark:</p> <p>This mark means that your equipment meets the safety requirements of all applicable EU directives</p>
	<p>Dustbin:</p> <p>This sign means that you must dispose of the unit only at a local collection site</p>

2.1.2 Markings in this user manual

Marking	Meaning
	<p>Draws your attention on the handling and effect of safety information.</p>
 WARNING	<p>Makes you aware of a dangerous situation that can cause you significant injury or death, if not avoided.</p>
 CAUTION	<p>Makes you aware of a dangerous situation that can cause you mild to moderate injury, if not avoided.</p>
NOTE	<p>Makes you aware of potential property damage and other important information in connection with your equipment.</p>
 Foot protection	<p>Safety shoes: Mandatory sign according to ANSI (according to Z 535.3 - 2007) Meaning: Foot protection</p>
 Fall down / drop	<p>Fall down/drop: Falling down Warning sign according to ANSI (according to Z 535.3 - 2007) Meaning: Falling down / downward movement – danger to feet</p>
  Danger of Crushing bruise / crush	<p>Bruise/ crush: Crushing Warning sign according to ANSI (according to Z 535.3 - 2007) Meaning: Risk of crushing for hands</p>

2.2 Service address

MovieTech AG

Martin-Kollar-Str. 9

D-81829 Munich

E-mail: info@movietech.de

www.movietech.de

Tel.: +49 (0) 89 43 68 91 3

3. Safety precautions

3.1 General safety precautions - manufacturer

- Before commissioning, ensure that you have read and understood the user manual.
- Do not leave the assembled remote head unattended. Secure against unauthorized use.
- The manufacturer's specified limit values must be strictly adhered to. Any excess should be avoided under all circumstances.
- The remote head may not be assembled under the influence of alcohol, drugs or other narcotics.
- Only qualified persons may be assigned with the assembly and disassembly and operation of the remote head. If necessary, the assignment must be stated in writing.
- Beware of possible bruising during assembly and disassembly and during operation (please see chapter structure and special warnings for each operating phase). Warning labels on the product and the manual must be observed!
- Ensure and guarantee the safe fixing of a camera on the remote head before each use. Use additional straps for safe fixing.
- Electrical equipment like monitors, must always be protected against moisture and humidity.
- Never move the remote head mechanically by hand when switched on!

3.2 General safety precautions - Use

- Follow the instructions on the use of maximum 25 kg camera weight in the 2-axis operation, 15kg camera weight in the 3-axis operation. Note warnings on the unit, special instructions on stability and safe use.
- Do not leave the assembled P10 unattended. Secure against unauthorized use.
- Because of the danger of a lightning strike, adjust the operation when a storm approaches.
- P10 may be used at an ambient temperature of -5 - +40°C.
- Do not assemble and disassemble, if the maximal permissible wind velocity exceeds 50 km/h.
- P10 is suited for studio and limited outdoor use. Avoid installing in a sandy, dusty, wet and salty environment.
- Avoid dashing the remote heads against any objects and obstacles, because of possible damages to materials and the drive. Damaged parts, above all safety-related parts, must be replaced by the manufacturer.

3.3 General safety precautions - check

- Before each use, safety must be checked during operation by visual and functional testing (according to DIN15999)
- In particular, pay attention to the following criteria
 - unusual noises during movement,
 - deformations (e.g. bending, twisting),
 - damage (e.g. cracks, corrosion),
 - missing parts (e.g. retaining pins, fasteners)
 - defective clamp functions of the adjustment mechanisms
 - defective cables
- In case of form changes or damages, contact the manufacturer!
- Please observe all other safety instructions in the following chapters!

3.4 Intended use of P10

P10 may only be used according to its “**intended use**”. P10 is designed for horizontal and vertical camera movements around the pivot point of the middle section. Therefore, the camera thereby must weigh between 0.5 and 25kg (15kg in the 3-axis operation). Balancing the camera on all three axes is required before each use to avoid damage to the drive units!

3.5 Personnel requirements

The operator of P10 should be able to control both the camera picture and the P10 radius of action. The operation of P10 must be always assessed in terms of the safety-related aspects. The responsibility for safe operation lies with the user. Distances between the camera and objects must always be assessed properly in terms of safety to avoid accidents and damages. You must assume a responsible approach to the product in the respective environment. The user must familiarize himself with and understand the safety-related aspects of the operation using the user manual.

General information for safety at work:



Betreten der Fläche
verboten

In operation, the P10 entails a risk to dash the head of an actor.

Within the P10 radius of action, only the access to the user, when mounting the camera, is allowed! During the operation of P10, the radius of action should be kept free.

Standing or sitting underneath an extension arm with a remote head P10 assembled thereon is not allowed for safety reasons!

Entering a prohibited area

3.6 Safety-related environmental conditions

The operation of P10 is suitable for the following environmental conditions:

- In-studio operation and limited outdoor operation.
- Avoid installing in a sandy, dusty, salty and wet environment!
- Avoid operation under heavy rain, snowfall and in a strong windy or gusty environment !
- The base should be even and stable for the necessary total weight loading of P10.
- Always keep in mind that the pressure on a crane, dolly, or individual tripod legs under load – if P10 is loaded increases on the ground many times.
- Avoid installing P10 on snow, sand and swampy grounds.

3.7 Possible misuse

The following applications are not permitted for the P10:

- Using cameras weighting over 25kg/ 2-axis (15kg/ 3-axis)
- Using with untared and insecure cameras
- Using P10 for holding lighting systems
- Using P10 in sandy conditions
- Using under water
- Assembly and taring of the camera with the unit is turned on
- Adjusting the drive modules with the unit turned on
- Connecting and disconnecting individual cables with the unit turned on
- Adjusting the drive modules with the unit turned on
- The touch module must be protected against humidity

3.8 Residual hazards and protective measures

Transport / Storage:

- When transporting the P10, make sure that no point loads rest on single parts.
- The remote head should be stored in a dry area.
- The remote head may not be stored in direct sunlight.
- The remote head may not be transported or shipped without proper packaging.
- The drive modules of the remote head may not be adjusted under load. Loads are always adjusted prior to disassembly according to instructions.
- All accessories should be disassembled for transport

4. Technical information

4.1 Technical data

Remote head P10 Digital

Activation:	RS232
Motors:	DC-Motor 24V
Power supply:	24V DC
Velocity:	Vmax. 360° Pan 2-Axle ca. 4, 5 Sec.
Dead weight:	2-Axle Operation 12kg 3-Axle Operation 20kg
Connection:	Euro mount taps 80mm (Optional: Mitchell adapter)
Frame dimensions:	2-ply frame 520x380mm
Payload:	Payload 2-axis 25kg Payload 3-axis 15kg

5.0 Optional accessories

Art. No. 8414-0	Single operator kit P10
Art. No. 8412-500	Power supply box
Art. No. 841210-0	Set of cables zoom/focus "Canon"
Art. No. 841212-0	Set of cables zoom/focus "Canon HD"
Art. No. 841220-0	Set of cables zoom/focus "Fujinon"
Art. No. 841215-0	Set of cables zoom/focus "Angenieux"

6.0 Mounting

Please open the transport case with caution. Use no sharp tools such as cutters, scissors etc that may cause damage to the frame parts or the cable.

Please control the contents delivered with the delivery slip and list. For content list see page 5,6

The contents delivered include only the items illustrated!

In case of missing parts, inform the manufacturer.

6.1 Mounting P10 2 axes – Base frame with drive modules



CAUTION

- The socket (mount) of the remote head has an outer diameter of 80mm.
- Make sure that the Euro mount connection of P10 is inserted vertically into the designated socket Mitchell clamping and that this is securely closed!
- Make sure that the crane or dolly to be operated with the P10 is suitable for the given load!
- Secure a mounted camera always with additional security straps

6.2 Mounting the P10 base plate



01

Install the **base plate**.

A: Lay the connection **plate** in the slot

B: Lay the **base plate** on top.

C: Screw star bolt from the bottom



02

Complete assembly illustration

Base plate is movable horizontally and vertically



03

Open the screw for changing the position of the base plate in two axis.



04

Positioning is depending on the camera body length and width.

The center of gravity of the camera body (length and width) has to be positioned in the middle of the pivot.

6.3 Positioning of the Tilt Drive Module



05

Positioning of the Tilt drive vertically

Open the 4 Allen screws with a wrench of size "3"

Please leave some space for the assembly of the connection cable



06

Tilt drive module may be moved in height.

Tighten the screws afterwards.

Do not remove the screwed stopper of the frame for safety reasons to prevent the sliding of unsecured drive module!

Notice:

The positioning of the tilt module helps you to optimize the size of the frame depending on the camera type you are using. A small frame size is preferred for a reduced mass.

6.4 Positioning of the Tilt Drive Module



07

Positioning gear boxes horizontal

Open the 4 Allen screws with a wrench of size "3"

Please leave some space for the assembly of the connection cable



08

Pan module may be moved in longitudinal position.

Tighten the screws afterwards.

Do not remove the screwed stopper of the frame for safety reasons to prevent the sliding of unsecured drive module!

Notice:

The positioning of the pan module helps you to optimize the size of the frame depending on the camera type you are using. A small frame size is preferred for a reduced mass.

6.5 Positioning of the Tilt Clamp



09

Positioning tilt clamp

The tilt clamp, is adjustable in height for the taring of the camera

Tighten the bolts securely after positioning



10

Lowest position depending on the camera body height.

The center of gravity of the camera body has to be positioned in the middle of the pivot.

Notice:

The positioning of the camera in the center of gravity is very important to reduce the force on the tilt and pan motor and gearing. **If the camera is out of balance the circuit breaker will stop the operating when the current flow is to high! (please check pos. xxx circuit breaker)**

6.6 Mounting a Snap Plate (not in the delivery included)



11

Mounting snap plate

Mount a snap plate or similar camera plate on the tilt module

Please check the center of gravity (camerabody). before mounting.

There are 2x 3/8" screws for the mounting included.

Notice:

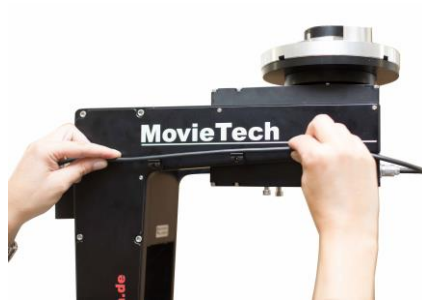
Please **switch off** always the complete system before you mount the camera! The drive must be free in the movement.

6.7 Mounting Pan/Tilt module cable

Note: The connector of the cable has red marks! Please bring these marks to the correct position when plug in the cable!



12
Mount the Pan
connection
cable



13
The connection
sockets of the
Pan module are
located on the
bottom side of the
module



14
Mount Tilt
connection
cable



15
The connection
sockets of the Tilt
module are
located on the
bottom side of the
module



16
Mount Main
power cable



17
**Positioning gear
boxes horizontal**
The basic clamp tilt, is
adjustable in height for
the taring of the camera
Tighten the bolts
securely after
positioning



18
Lowest position
depending on the
camera body height.
The center of gravity of
the camera body has to
be positioned in the
middle of the pivot.



Notice:

The positioning of the camera in the center of gravity is very important to reduce the force on the pan motor and gearing. **If the camera is out of balance the circuit breaker will stop the operating when the current flow is to high!**

6.8 Mounting of zoom/focus cables

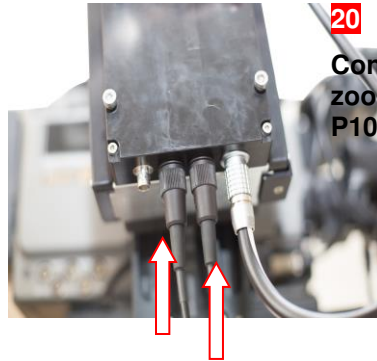


Connector for the focus and zoom function at the lens connecting plate

19

Lens with integrated motors for zoom and focus

For the P10 is a set of cables for zoom/focus for canon/canon HD/Fujinon/Angenieux as an option available



20

Connecting plate for zoom and focus at the P10 frame

Notice:

For using the zoom and focus function you need a broadcast lens with integrated motors!

- Zoom function of an lens with integrated motor
- Focus function of a lens with integrated motor
- Rec. on/off of a lens with zoom function
- Ret. function shows the last seconds of footage

Caution – For the use of the zoom/focus/rec. function a broadcast lens with integrated motors is needed, a cable set for the manufacturer Canon, Canon digital, Fujinon, Angenieux is required!


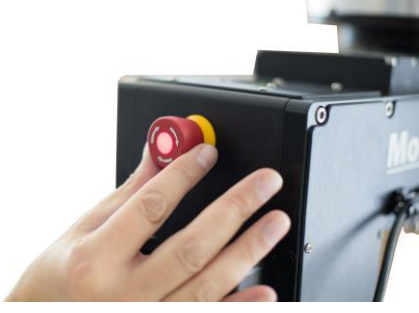
Art. No. 8470-2700 Canon standard cable set consisting of zoom cable XPin/focus cable XPin

Art. No. 8470-2900 Canon digital cable set consisting of XPin/focus cable XPin

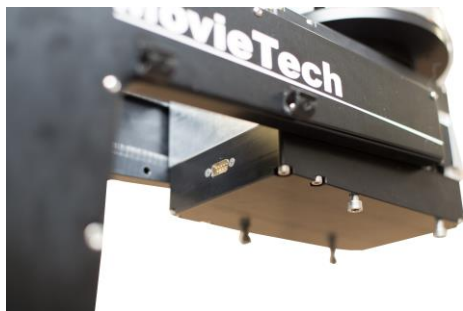
Art. No. 8470-2800 Fujinon standard cable set consisting of XPin/focus cable XPin

Art. No. 8470-2600 Angenieux standard cable consisting of XPin/focus cable XPin

6.9 P10 Emergency breaker

	
<p>You can interrupt the power of the remote head by switching off the breaker!</p> <p>a) to balance the camera b) in case of an emergency</p>	
<p>Emergency breaker is not active – the system is powered! Turn right and push the button to switch power off!</p>	<p>Circuit breaker is active “red light” the power is off! Turn button left side to activate the system again!</p>

6.10 Connection for programming



01

Connector position at Pan module

Zero – modem cable



02

Connector position at Tilt module

Zero – modem cable

7.0 P10 Control Panel



1	Power On/Off	10	Direction Pan
2	Power connector	11	Direction Tilt
3	Digital Display	12	Zero Point control Joystick (Pan)
4	Speed Pan	13	Zero Point control Joystick (Tilt)
5	Speed Tilt	14	Direction Zoom
6	Ramp Pan	15	Speed Zoom
7	Ramp Tilt	16	Zoom
8	Joystick	17	Focus Wheel
9	Rec. On/Off	18	Direction Focus

7.1 Circuit breaker



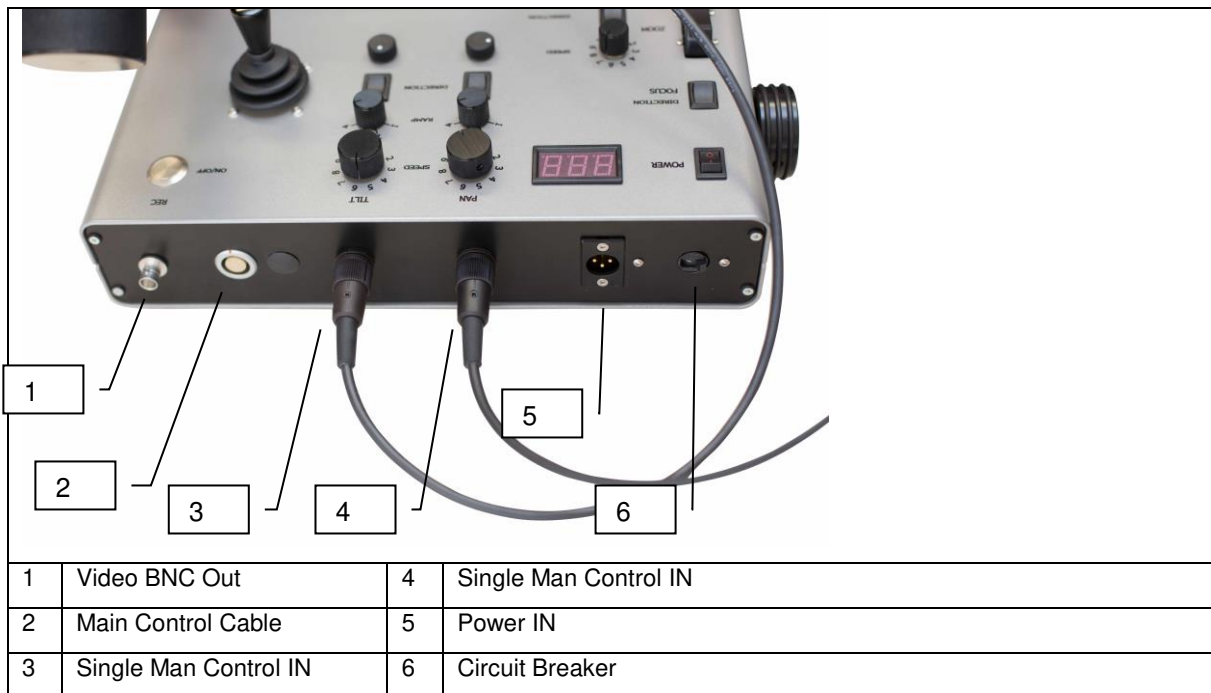
01

Circuit breaker

— On Position

The P10 has an integrated circuit breaker system. If the circuit breaker appears you can reactivate the system bei turning the switch.

7.2 Connecting plate



8.0 Programming the Remote Head

The P10 Remote Head has a programmable motor solution. It allows you to change the parameters of Speed, Ramp and the Joystick Window. A CD with the Faulhaber "Motion Manager" that makes you able to change these data is in the set included. A manual gives you the information how to program the motors step by step.

At both axis of the Remote Head you will find a connector for the computer cable. Please install the Faulhaber software on your computer and follow the instructions in the manual.

9. Zero point function




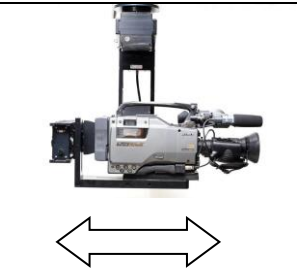

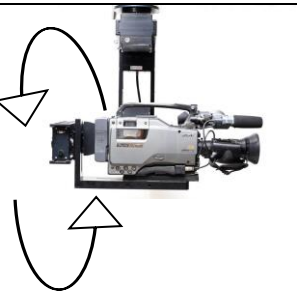


01
Zero point position
for Pan and Tilt
axis

These two knobs allow you to control the zero position for the Pan and Tilt axis. If the head is moving without a direct joystick action you can stop the movement by turning the knobs until the head stops.

An uncontrolled head movement can happen when the programming of the joystick window is too small!

10. Mounting of the 3. axis

	<p>3. axis module</p> <p>Consisting of:</p> <ul style="list-style-type: none"> - Motor unit - L- bracket <p>(camera base plate is not included)</p>		<p>Fix the 3. axis with two screws.</p> <p>By opening the screws you can change the position of the motor unit for the balancing.</p>
 <p>Open the two screws to change the position of the 3rd axis horizontal.</p>	<p>1a) Horizontal Balancing:</p> <p>Open the screws for horizontal balancing!</p>		<p>1b) Horizontal Balancing:</p> <p>Move the camera forward and backwards until the camera is in the center of balance. Close the screws again!</p>
	<p>2a) Height Balancing:</p> <p>Up-down camera</p> <p>You can change the height of the L-bracket by opening the screws.</p> <p>Find the center of gravity when you are balancing the camera.</p>		<p>2b) Height Balancing:</p> <p>Rotate the camera – change the position of the height if you feel a disbalance of the camera when you rotate the body 360°. The camera should stay in any position of the rotation. Open and close the screws for every changing of the position!</p>

11. Care of the remote heads

To clean the remote head, frame and drive, we recommend a moderately strong air shower to remove dirt particles. Clean with a microfiber cloth damp with detergent.

NOTE **Pack the remote head in the system case only when dry.**

11.1 General notes and safety information on operation

User:

The user manual must be read and understood by any user before commissioning the equipment

Before operating the equipment, all electrical and mechanical parts such as cable, plugs, modules, fixed and removable parts, screws, mounting plates, clamps and the like must be checked for proper condition.

The environmental condition must be suitable for the unit operation.

Avoid operation with storm, water, humidity, excessive sunlight, extreme cold, etc.

Mains used for power supply must be checked for suitability by professionals, if necessary through measurements.

Mounted accessories such as cameras must be additionally secured by professional security systems like suitable steel ropes or straps from falling!

The manufacturer disclaims any liability resulting from improper and non-complying with the equipment regulation handling and from inadequate environmental conditions.

The same applies for any liability resulting from the use of non-system accessories that cause direct or indirect damages during the use of the remote heads.

The warranty is void when using parts not supplied by the manufacturer and have an impact on the equipment.

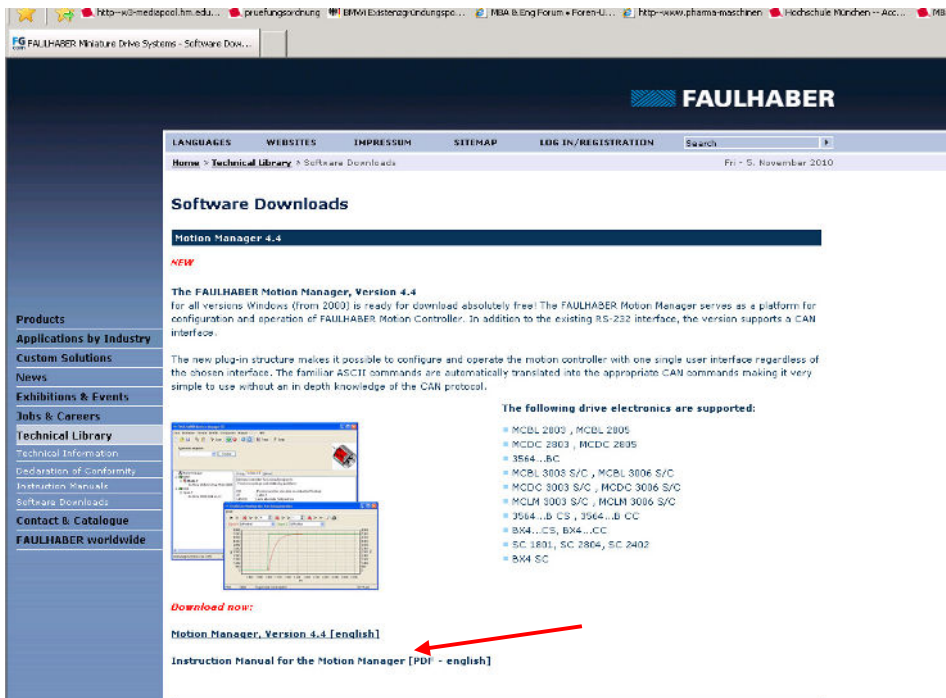
For repairs and services, you must contact the manufacturer. Any damage resulting from unauthorized interference to the equipment is excluded from liability.

Axis configuration for remote head Pelé / Alex Digital

1- Faulhaber software download

→ „Motion Manager 4.x“ download at: <http://www.faulhaber.com/n41656/i425657.html>

or from the provided CD



FAULHABER

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Software Downloads

Motion Manager 4.4

NEW

The FAULHABER Motion Manager, Version 4.4
For all versions Windows (from 2003) is ready for download absolutely free! The FAULHABER Motion Manager serves as a platform for configuration and operation of FAULHABER Motion Controller. In addition to the existing RS-232 interface, the version supports a CAN interface.

The new plug-in structure makes it possible to configure and operate the motion controller with one single user interface regardless of the chosen interface. The familiar ASCII commands are automatically translated into the appropriate CAN commands making it very simple to use without an in depth knowledge of the CAN protocol.

The following drive electronics are supported:

- MCBL 2803 , MCBL 2805
- MCDC 2803 , MCDC 2805
- 3844...BC
- MCBL 3006 S/C , MCBL 3006 S/C
- MCDC 3003 S/C , MCDC 3006 S/C
- MCLM 3003 S/C , MCLM 3006 S/C
- 3564...B CS , 3564...B CC
- BX4...CS, BX4...CC
- SC 1801, SC 2804, SC 2402
- BX4 SC

Download now:

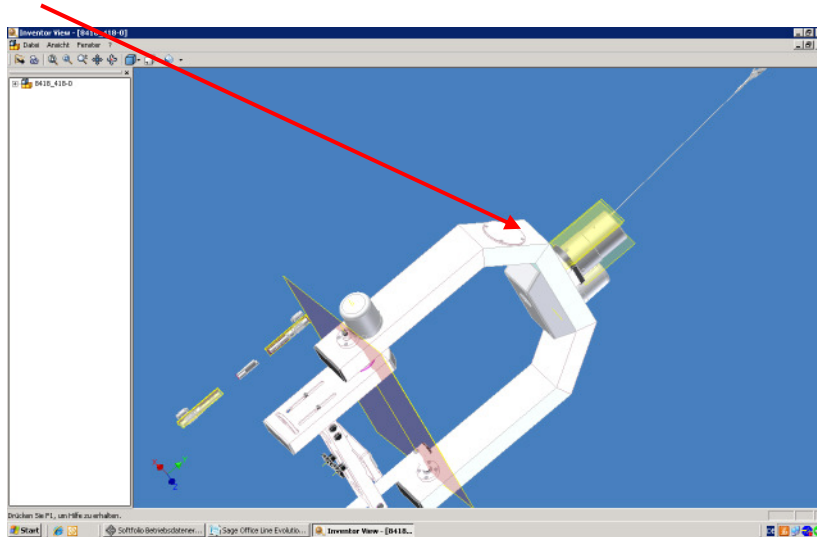
[Motion Manager, Version 4.4 \[English\]](#)

[Instruction Manual for the Motion Manager \[PDF - english\]](#)

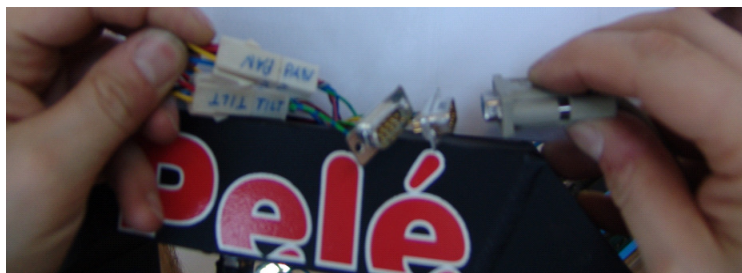
→ Connect control panel to remote head (main control cable)

2- Cable connections

→ Remove cover



→ Pull out the 9-poled plugs (PAN/TILT) and connect the TILT-connection to the RS232 cable (not included in delivery)

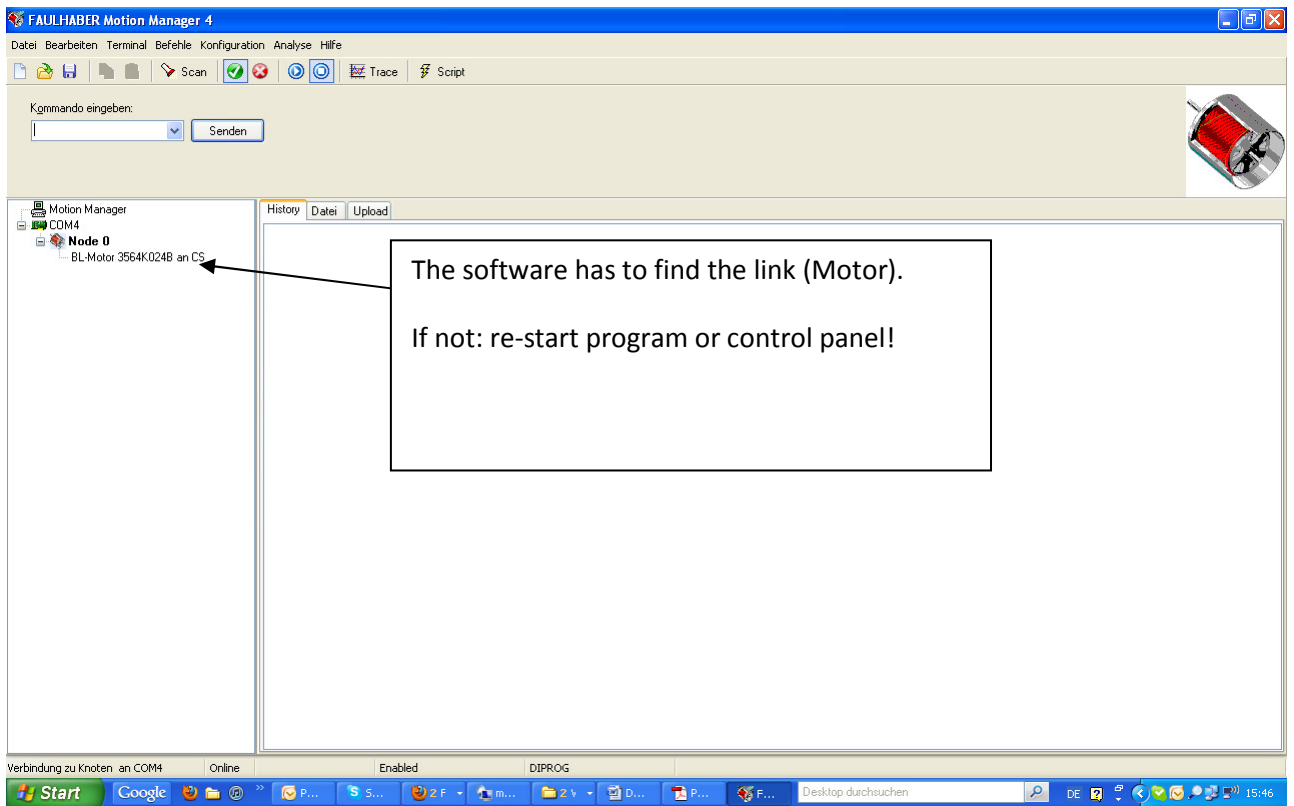


→ Connect the other end of the RS232 cable to the USB-Adapter and connect with the PC

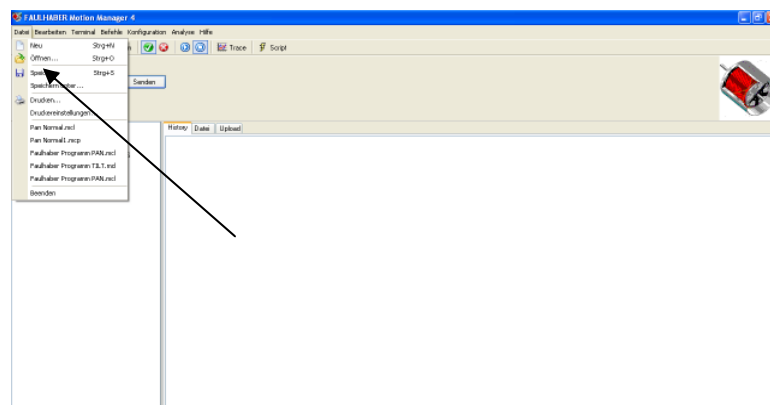


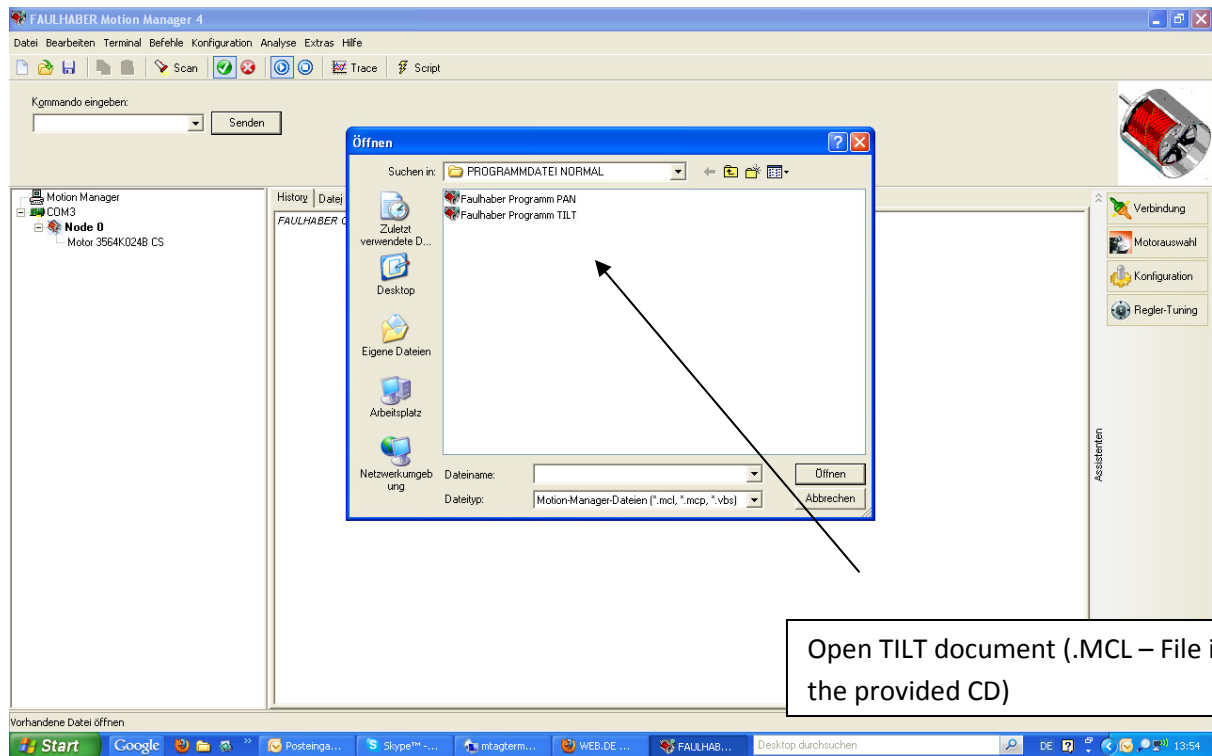
→ **Switch on control pannel**

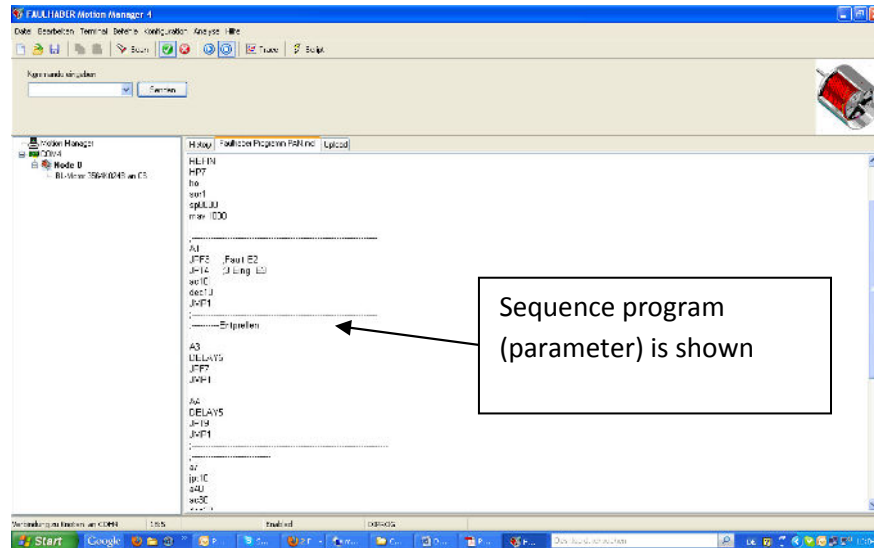
→ Start Faulhaber software (Motion Manager).



→ Open sequence programme







3- Programming the sequence program for the TILT- Axis:

To change the parameters overwrite the red marked parameters.

```

REFIN
HP7
ho
sor1
sp4500 ← ; Geschwindigkeit - Speed - Vitesse (min: 1, max: 30000)
mav1000 ← ; Joystick Ansprechempfindlichkeit - Joystick sensitivity - Sensibilité du Joystick (min: 10000, max: 1)
;-----
A1
JPF3 ;Fault E2
JPT4 ;3 Eing E3
ac10 ← ; Ramp position 1: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)
dec10 ← ; Ramp position 1: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)

JMP1
;-----Entprellen

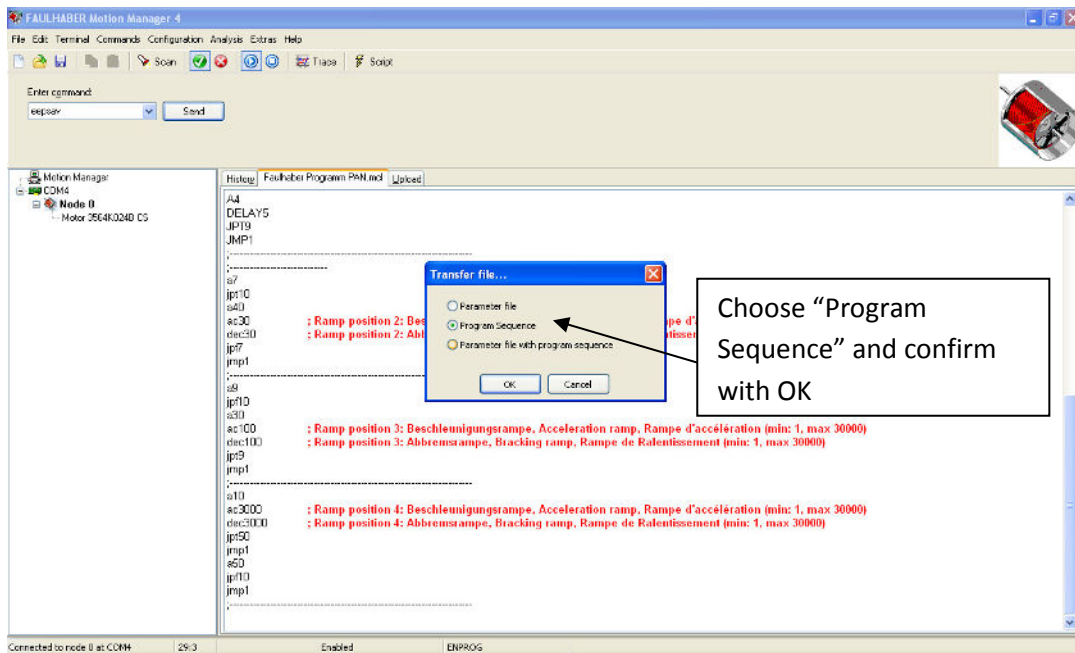
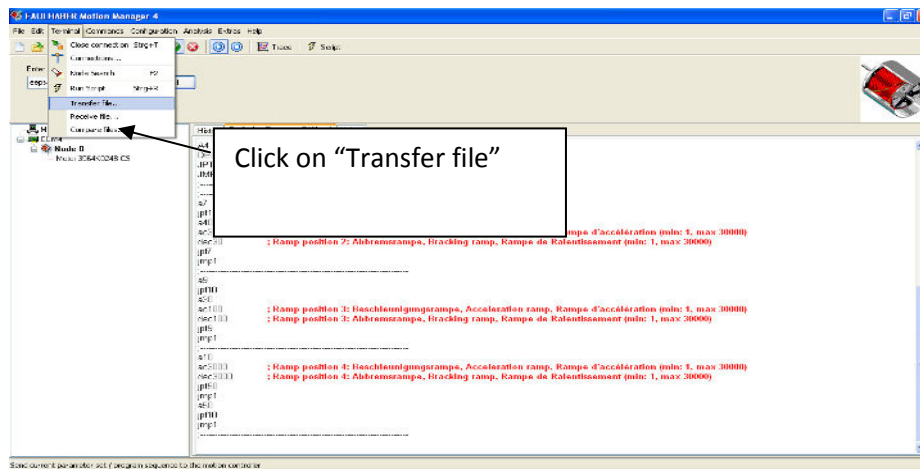
A3
DELAY5
JPF7
JMP1

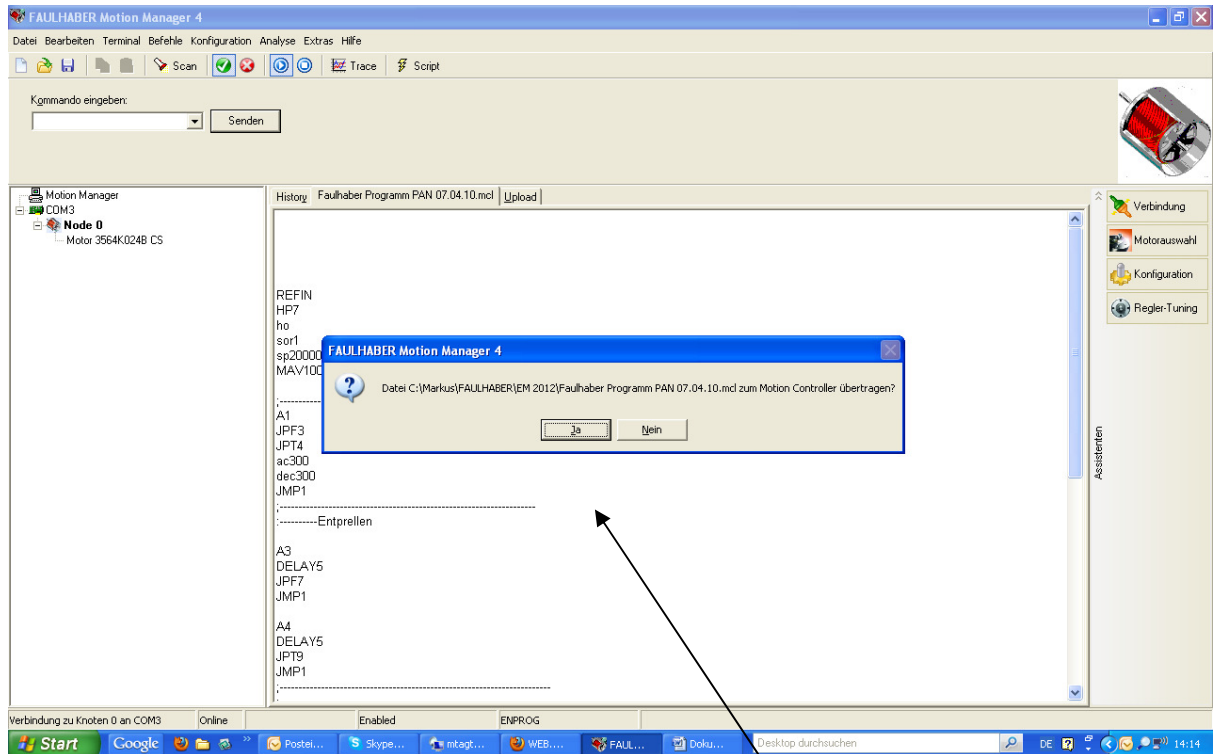
A4
DELAY5
JPT9
JMP1

```

```
-----  
;  
-----  
;  
a7  
jpt10  
a40  
ac30 ← ; Ramp position 2: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)  
dec30 ← ; Ramp position 2: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)  
jpf7  
jmp1  
-----  
;  
a9  
jpf10  
a30  
ac100 ← ; Ramp position 3: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)  
dec100 ← ; Ramp position 3: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)  
jpt9  
jmp1  
-----  
;  
a10  
ac3000 ← ; Ramp position 4: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)  
dec3000 ← ; Ramp position 4: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)  
jpt50  
jmp1  
a50  
jpf10  
jmp1  
-----  
;
```

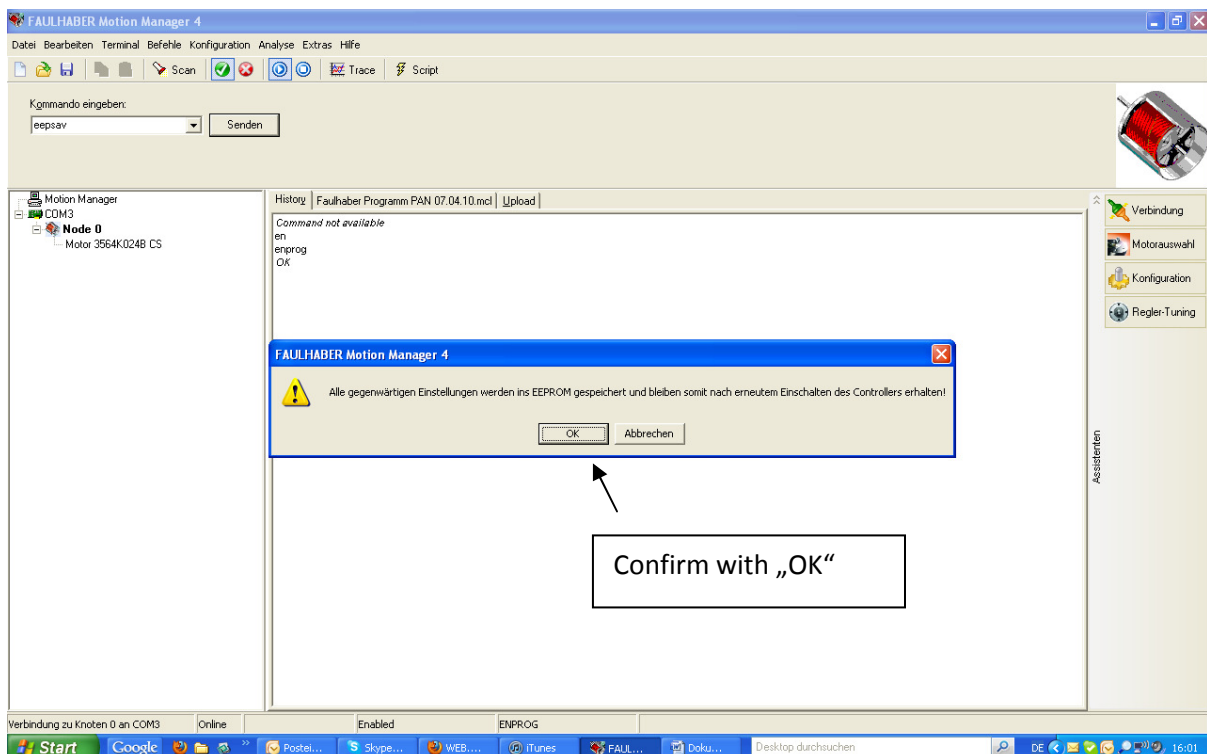
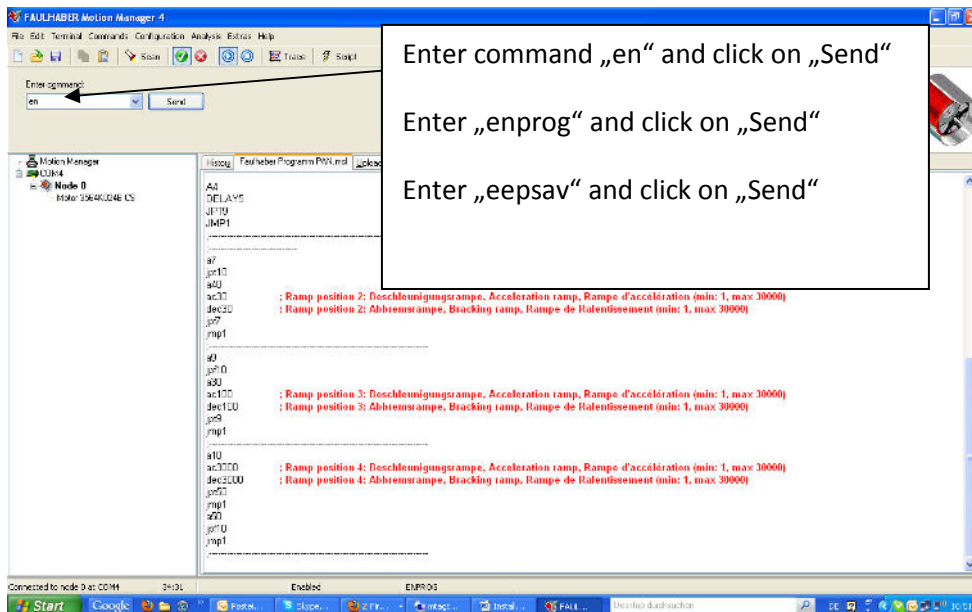
4- Transmission of the Sequence program of the TILT- Axis:





Transmission of "Faulhaber program TILT" to the motion control confirm with "Ja" (yes).

→ Sequence program

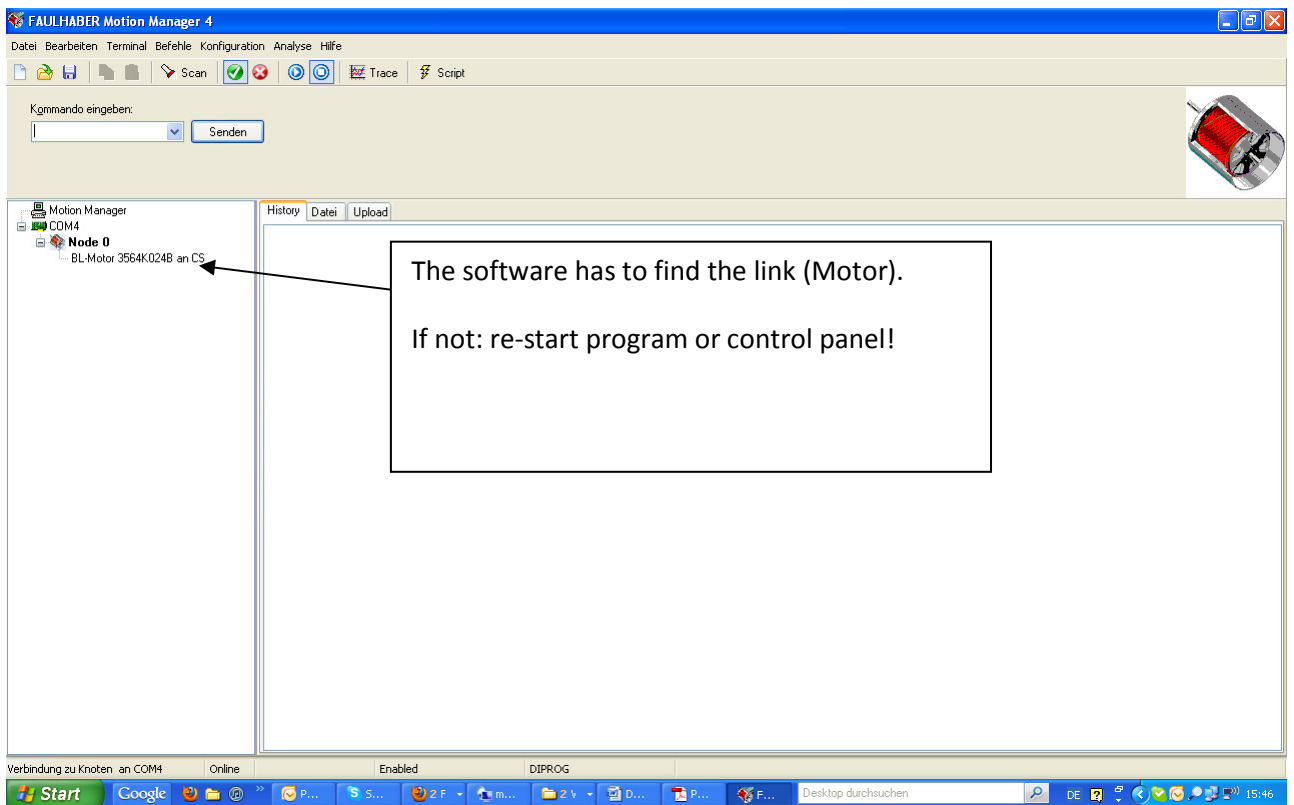


5- Programming of the sequence program for the PAN-Axis:

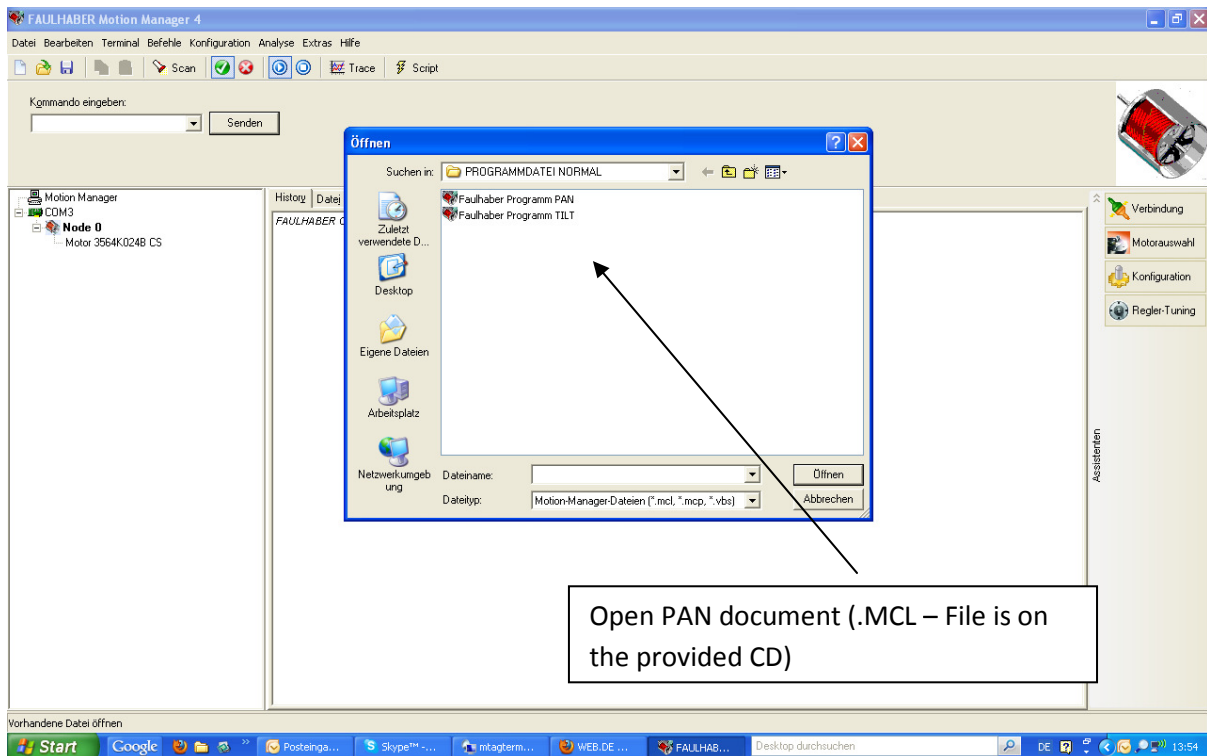
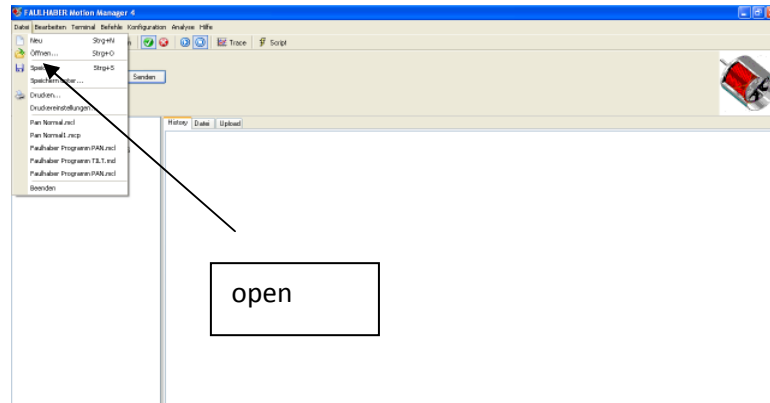
Pull out the 9-poled plugs (PAN/TILT) and connect the PAN-connection to the computer

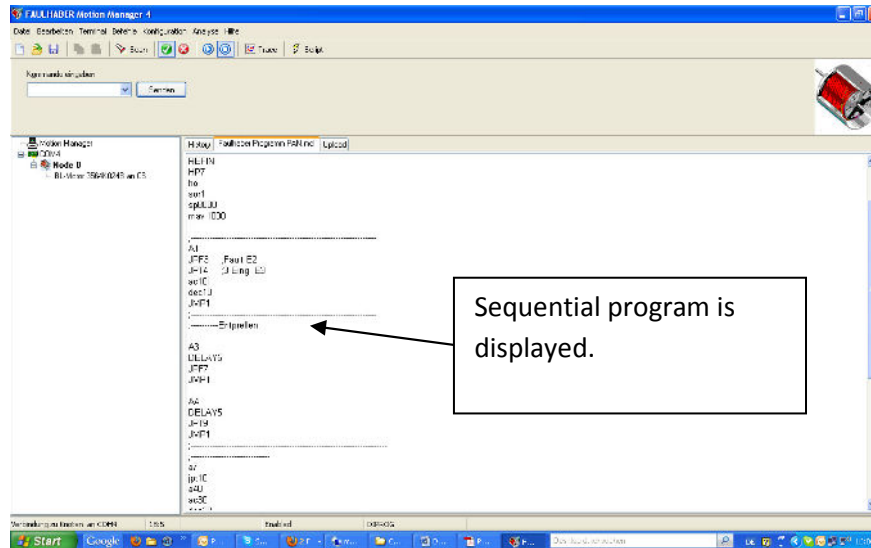


→ Open Faulhaber software (Motion Manager).



→ *Open sequence programme*





To change the parameters overwrite the redmarked parameters.

```

REFIN
HP7
ho
sor1
sp8000 ← ; Geschwindigkeit - Speed - Vitesse (min: 1, max: 30000)
mav 1000 ← ; Joystick Ansprechempfindlichkeit - Joystick sensitivity - Sensibilité du Joystick (min: 10000, max: 1)
;-----
A1
JPF3 ;Fault E2
JPT4 ;3 Eing E3
ac10 ← ; Ramp position 1: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)
dec10 ← ; Ramp position 1: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)
JMP1
;-----
:-----Entprellen

A3
DELAY5
JPF7
JMP1

A4
DELAY5
JPT9
JMP1
;-----
;-----
a7
jpt10

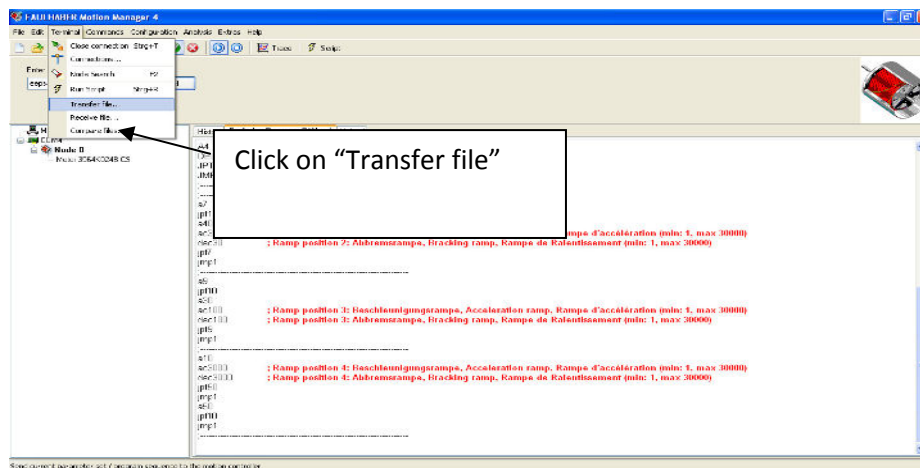
```

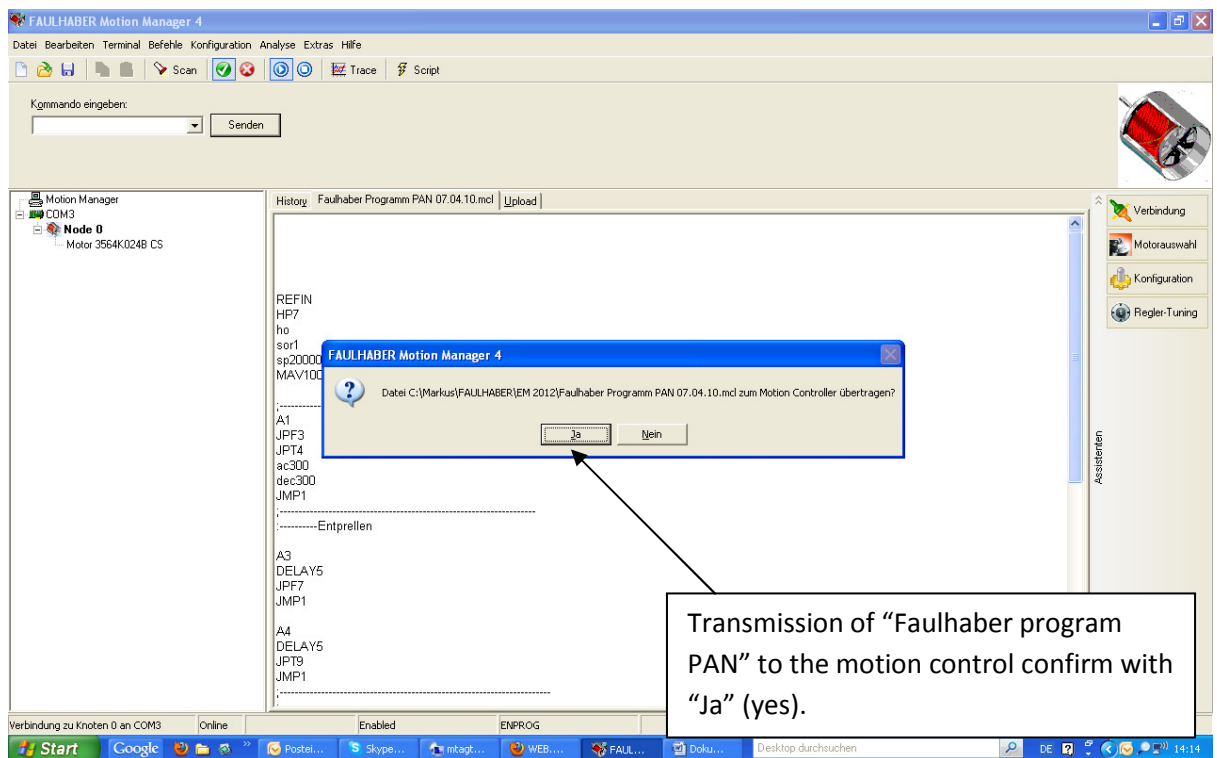
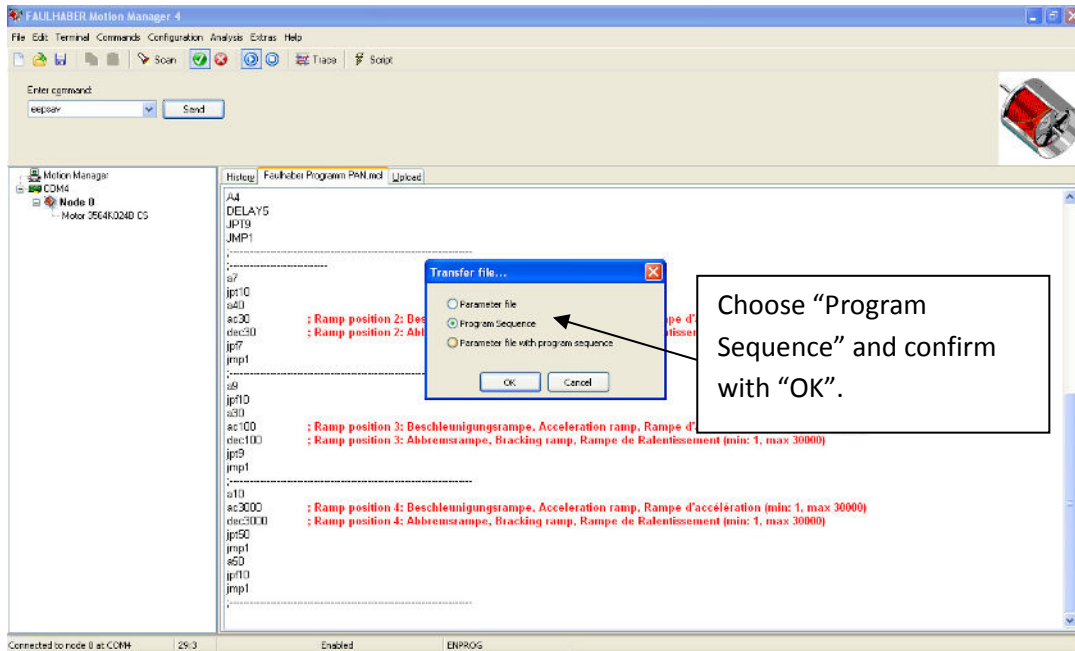
```

a40
ac30 ← ; Ramp position 2: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)
dec30 ← ; Ramp position 2: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)
jpf7
jmp1
;-----
a9
jpf10
a30
ac100 ← ; Ramp position 3: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)
dec100 ← ; Ramp position 3: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)
jpt9
jmp1
;-----
a10
ac3000 ← ; Ramp position 4: Beschleunigungsrampe, Acceleration ramp, Rampe d'accélération (min: 1, max 30000)
dec3000 ← ; Ramp position 4: Abbremsrampe, Bracking ramp, Rampe de Ralentissement (min: 1, max 30000)
jpt50
jmp1
a50
jpf10
jmp1
;-----

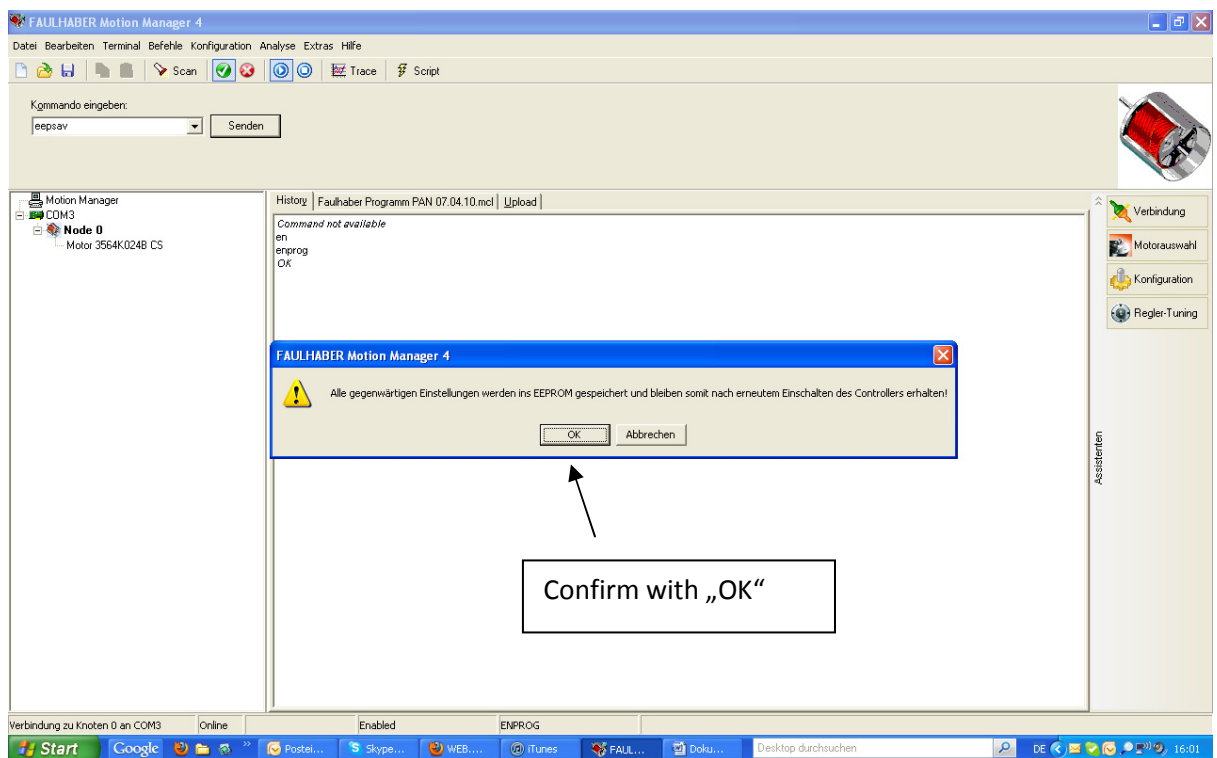
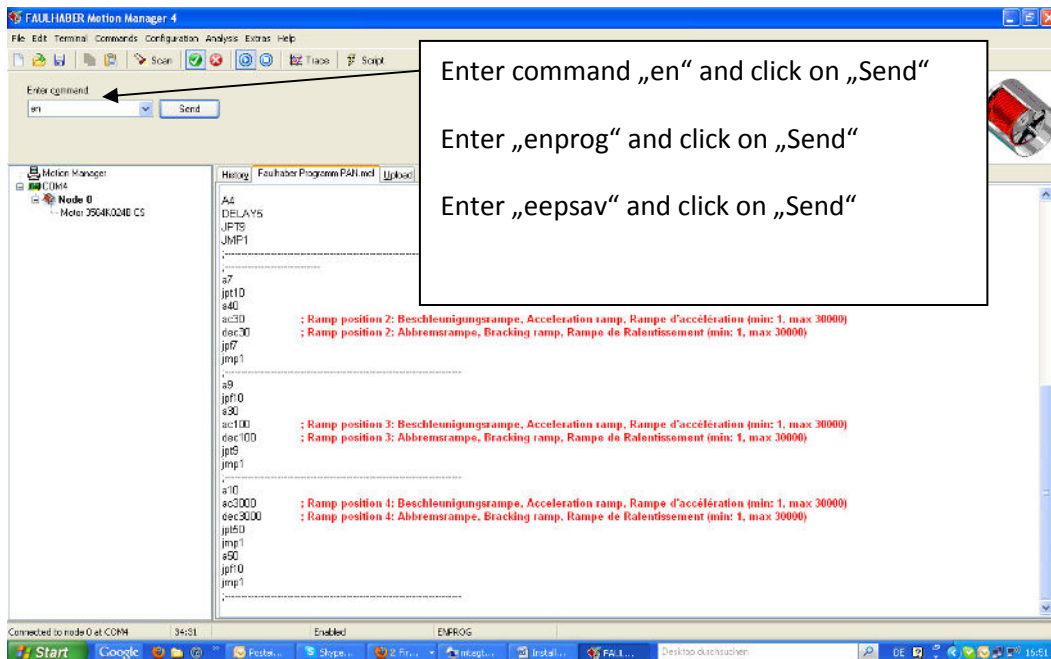
```

6- Transmission of the Sequence program of the PAN-Axis:





→ Sequence Program





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