GUI Version 3.1.0.2
MAXIMA and TRINITY

USER MANUAL

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Imprint

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Scope

The third generation of the MAXIMA and TRINITY graphic user interface, the so called **GUI** can be
used with all exiting MAXIMA and TRINITY units. The redesigned graphic user interface is focusing
on easy use of the software and a fast setup of the MAXIMA and TRINITY.

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will, damage to or replacement of equipment or property, any cost or recovery of any material or
goods associated with the assembly or use of our products, or any other damages or injury of the
persons and so on or under any other legal theory. In the event that one or all of the foregoing
clauses are not allowed by applicable law, the fullest extent permissible clauses by applicable law are
validated.

Table of Contents

1   For your safety

Before use, please ensure that all users comprehensively read, understand, and follow the instructions in this document.

Risk levels and alert symbols

Safety warnings, safety alert symbols, and signal words in these instructions indicate different risk levels:

⚠ DANGER
Danger indicates an imminent hazardous situation which, if not avoided, **will result in** death or serious injury.

⚠ Warning
WARNING indicates a potentially hazardous situation which, if not avoided, **may result in** death or serious injury.

⚠ CAUTION
CAUTION indicates a potentially hazardous situation which, if not avoided, **may result in** minor or moderate injury.

NOTICE
NOTE explains practices not related to physical injury. No safety alert symbol appears with this signal word.

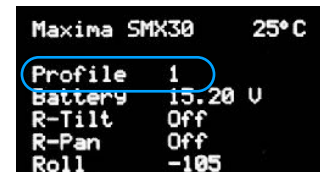| NOTE |
|---|
| Provides additional information to clarify or simplify a procedure. |

2 Controls and adjustments operated directly on the MAXIMA and TRINITY

2.1 Changing Profiles

By pressing **MODE** one time, you will recall profile number **ONE**.

By pressing **MODE** twice, you will recall profile number **TWO**.

And so on…

2.1 Changing the Joystick Direction

Operated directly on the TRINITY

• Press **OK** until Joystick is displayed

• Press **OK**

• Select: Normal - Inverted - Off by pressing **UP** or **DOWN**
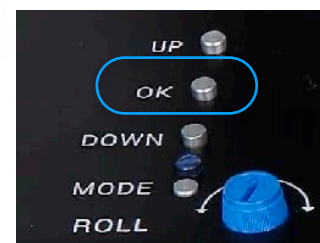
• Press **OK** to confirm your selection

2.3 Paring the Wireless Remote Control

Operated directly on the TRINITY

• First switch **Off** the Remote Control!

• Press **OK**

• Press Down until you see **Remote Pairing**

• Press **OK**

• Now the MAXIMA will start a **10 sec. count down.**

• After **5 sec.** the MAXIMA will beep.

• Switch **ON** the wireless Remote Control.

• Now the Remote will be paired

3   Default User Presets

3.1 MAXIMA

The MAXIMA supplied with this five Default User Presets, which are programmed for camera setups up to 10 Kg / 22 lb.

Profile	Motor Power	Tilt	Pan	Feels	Good for
1	45	**Follow**	**Follow**	Very direct	Handheld Look
2	45	*Fully Stabilized*	**Follow**	Very direct	Handheld Look
3	45	**Follow**	**Follow**	Less direct	Easy Rig / running shots
4	45	*Fully Stabilized*	**Follow**	Less direct	Easy Rig / running shots
5	45	*Fully Stabilized*	*Fully Stabilized*	Very direct	To be used with the wireless control or wheels

3.2 TRINITY

The TRINITY supplied with five Default User Presets, which are programmed for camera setups up to 10 Kg / 22 lb.

Profile	Motor Power	Tilt	Pan	Feels	Good for
1	35	**Fully Stabilized**	regular		TRINITY moves
2	35	*Follow*	regular	Very direct	Classic Steadicam™ feel
3	35	**Follow**	goofy		TRINITY moves
4	35	*Fully Stabilized*	goofy	Very direct	Classic Steadicam™ feel
5	35	**Follow**	regular	Very direct	Roll and Tilt is in Follow Mode

NOTE
To be able to change any of this adjustment, you need to install the FoMa Control software and you need to read the User Manual GUI.

The manual is available on the USB stick and on the ARRI CSS web page in the download area.

4.   Installing the GUI / Software

NOTE
The latest GUI and Windows drivers can be found at the **ARRI CSS web page.**

The **Control Software, the so called GUI** will only work on a PC with
Windows 8 or 10, or a Windows Tablet with Windows 8 or 10, or on a
Mac running Parallels.

NOTE
The software does not need a powerful computer.

| ⚠ CAUTION |
|---|
| **Install the USB driver first!**
Than you can run the FoMa_Control_Setup.exe

Check first if windows is running in **32** or **64 bit** mode. |

- Click onto the Windows Logo in the lower left corner

- Right click and navigate toto system, to see if you are running 32 or 64 bit system.

- If you are running a **32 bit system** install
  the **CP210xVCPInstaller_x86.exe.**

- If you are running a **64 bit system**, install
  the **CP210xVCPInstaller_x64.exe.**

- Then install The FoMa Control Setup V.exe

- **NOTE**
  While installing the software, you can create a desktop shortcut, click in the box.
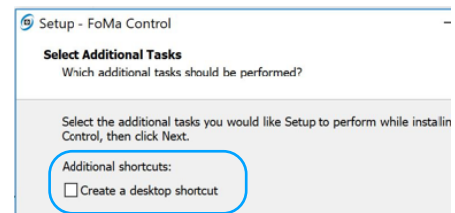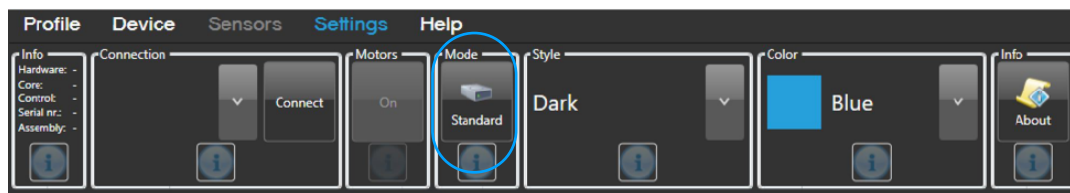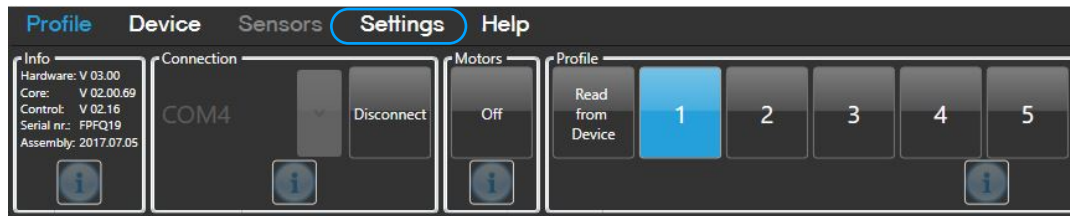
5   Starting the GUI / software the first time

This is the first tab you will see after you have launched the FoMa Control program.
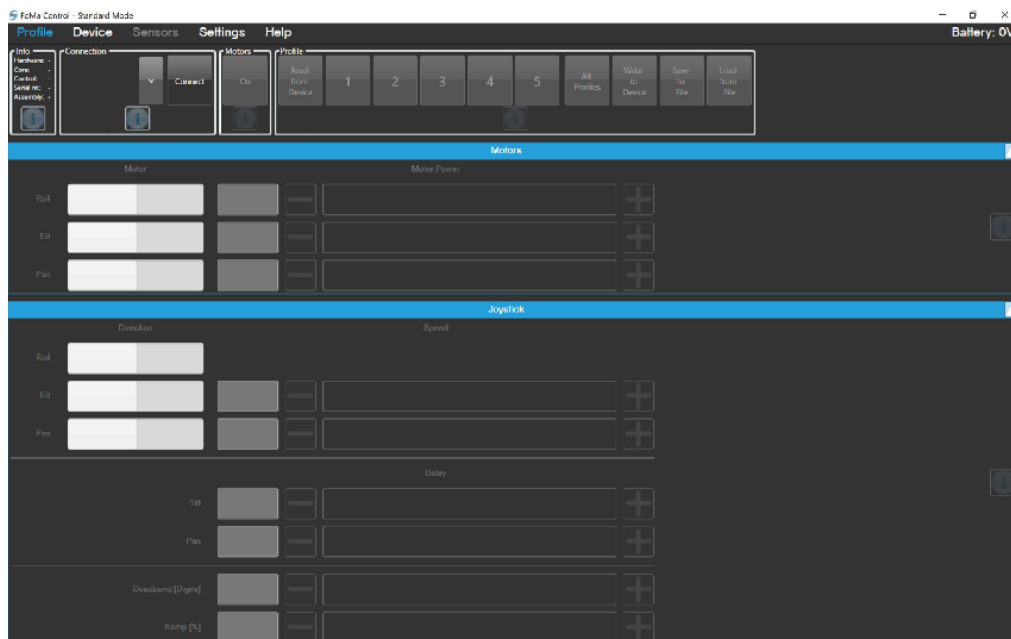
6   Changing from Standard to Advanced Mode

The GUI normally will start in the standard mode.
To change the GUI from standard to advanced mode, go to setting.

Click on **Mode** and change between **Standard** and **Advanced** mode.

NOTE
For the beginning stay in the **Standard** mode.

7   Connecting the USB Cable

To connect the MAXIMA / TRINITY to a PC or Tablet computer, a USB cable with a
MINI USB connector on one end is needed.

Location of the USB sockets

The USB socket on the MAXIMA is located
at the right side of the housing.


The USB socket of the TRINITY is
located on the right side of the base plate.

8   Connecting the MAXIMA / TRINITY to the PC

- To start the GUI, double click on the FoMa CONTROL
  icon located on the desktop.

- Connect the USB cable to the PC / Tablet and the
  MAXIMA / TRINITY.

- The MAXIMA / TRINITY display will **switch off**
  for a short moment.

- Wait until the display comes back on again.

- Select the USB port (it will be **COM3** most of
  the time)

- Press **Connect**

- Now all profiles of the MAXIMA / TRINITY will be **uploaded** into the GUI / software.
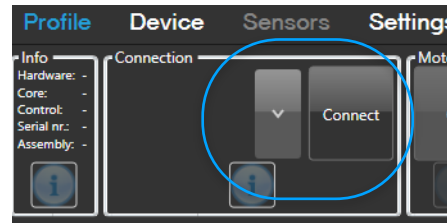
| ⚠ CAUTION |
|---|
| While connecting the MAXIMA / TRINITY to the GUI, the motors will be engaged for a short moment. Make sure you hold and secure the camera while the display goes off and comes back again. |

⚠ CAUTION
In the unexpected case that the MAXIMA / TRINITY is extremely vibrating right after the connecting process, please switch off the MAXIMA / TRINITY and switch it on again 2 seconds later.

9   The Home Screen

You will see this tab after connecting successfully.
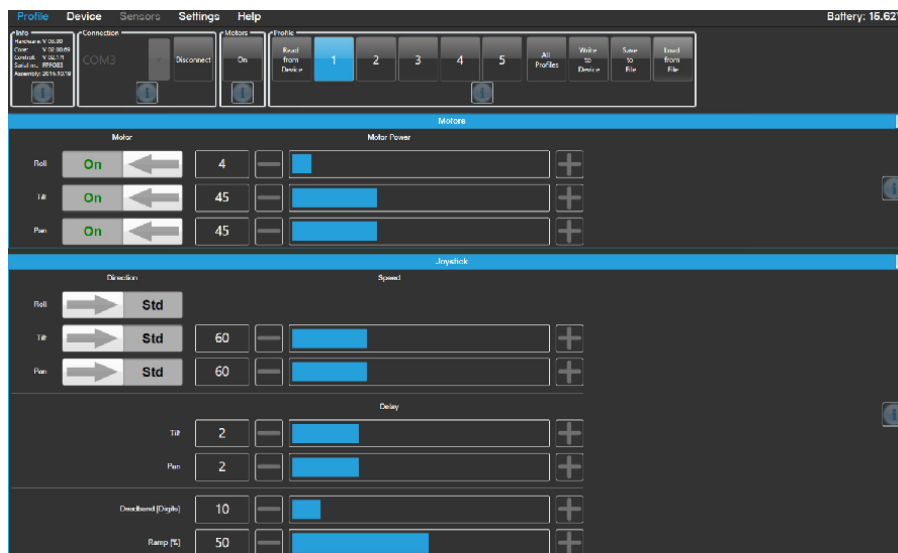
10   Motor Power and the three payload groups

The fastest way to set up the motor power of the MAXIMA and TRINITY, is to divide the possible cameras setups into three weight groups.

camera setup	up to	Motor Power Tilt &Pan	Roll
Light	**10 Kg / 22 lb.**	35* / 45** (Default setting)	4
Medium	**15 Kg / 33 lb.**	80	5
Heavy	**30 Kg / 66 lb.**	110	6

* TRINITY / **MAXIMA

NOTE
The adjustable payload ranges, light, medium and heavy, allow an
offset of 2,5 Kg / 5.5lbs.
You do not need to be 100% on the spot.

10.1 Light camera setups up to 10 Kg / 22 lb.

This ALEXA MINI setup will be within this 10Kg / 22lb. payload range:

It contains:
• ALEXA MINI Body
• ALURA LWZ ZOOM 15.5-45 mm
  K2.47934.0 (m), K2.47935.0 (ft)
• SAM2 Plate K2.0014215
• ARRI Rod Mounting Bracket RMB-3
  K2.0006186
• Support Rods 240 mm (9.4 inch), Ø 19 mm
  K2.66270.0
• cforce Mini (Basic Set) K2.0006355

NOTE
To get the perfect vertical position for the
MINI, please use the
SAM-2 Stabilizer Adapter Mount for ALEXA
Mini / K2.0014215

10.2 Medium camera setups up to 15 Kg / 33 lb.

An **AMIRA** setup with a LWT Zoom and Motors will
be within the 15 Kg / 33lb. payload range.

NOTE

To get the perfect vertical position for the AMIRA,
please
use the SAM-3 Stabilizer Adapter Mount for
AMIRA / **K2.0014630**

10.3 Heavy camera setups up to 30 Kg / 66 lb.

An **Alexa** setup with a Prime Lens and Motors will
be at the lower end of the 33 Kg / 33lb. payload range.

NOTE
To get the perfect vertical position for the ALEXA, please use
the SAM-1 Stabilizer Adapter Mount for ALEXA / **K2.0014022**

11   Adjusting the Motor Power (Standard Mode)

To change the motor power to a higher value, you can:
• Click on the **+** and **-** buttons

• Place the cursor into the number field and type in the number

• On a tablet you can slide the blue bar with your finger tips
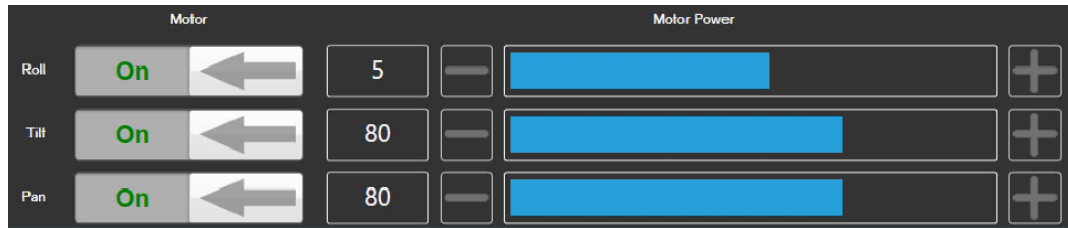
11.1 The light setup will look like this:

Motor			Motor Power	
Roll	On ←	4	▬	▮	+
Tilt	On ←	45	▬	▮▮▮	+
Pan	On ←	45	▬	▮▮▮	+

NOTE
In the standard mode the GUI shows the most effective motor power range for Tilt and Pan,
which goes from 20 to 110.
If higher values than 110 are needed, you need to change into the **Advance Mode**.

11.2 The Medium setup will look like this:


11.3 The heavy setup will look like this:

NOTE
If you need to fine trim the motor power, changing the values by steps of
five up and down, will be the best way to find the right motor power adjustment.

11.3 Adjusting PID (Advanced Mode)
Proportional – Integral – Derivative controller (PID controller)

In the Advanced Mode, you can adjust the Motor Power more accurate by using the
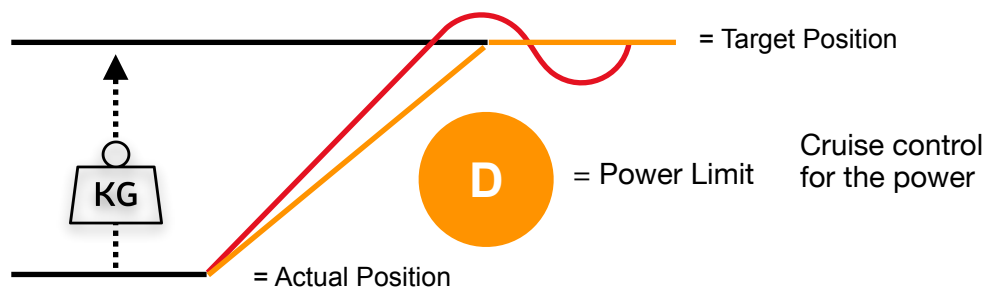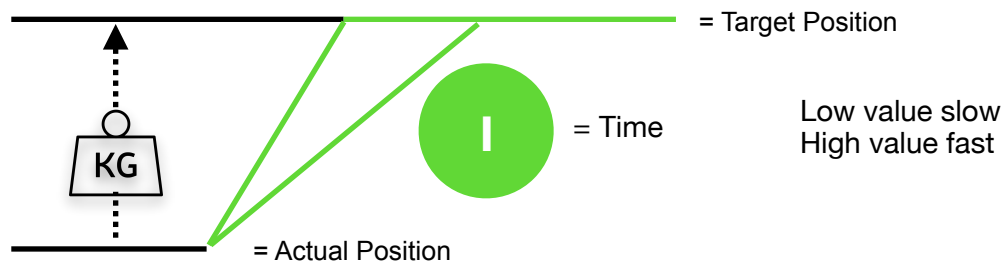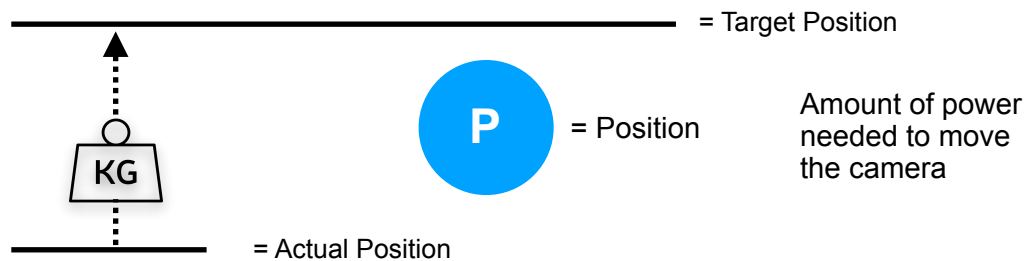**PID** adjustments.
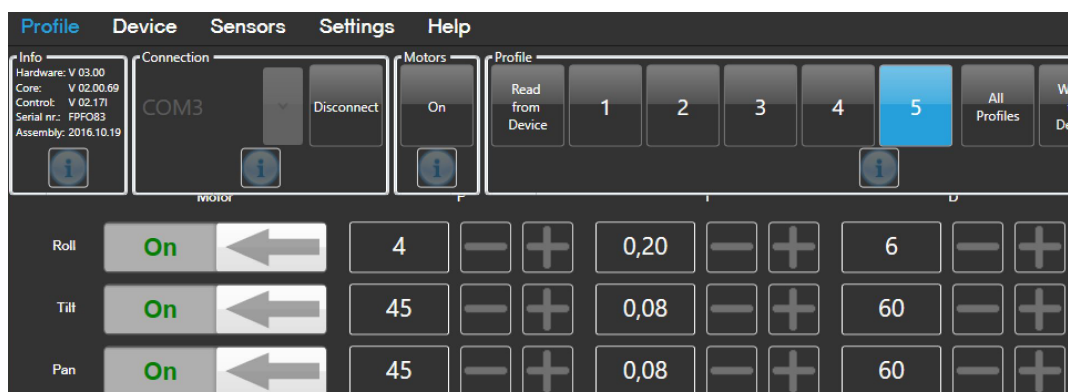
11.4. PID Quick Guide

NOTE
Start with a solid camera setup

- Set Ramp and Damp to ZERO on the Joystick (Pan & Tilt)
- Physical test the Tilt axis.
- Touch the Tilt axis and try move the camera down and check if the camera slipping.
  If the tilt axis is slipping, you need to higher **P** for the Pan axis
- Select a point in the set.
- Use the joystick to tilt and stop the head and see if the camera:
  stops at the selected point
  or if it is over driving the point
  4.3 or if it is bouncing left and right
- If the heads over driving or bouncing, you need to lower the P and D value of the Tilt axis by steps of five.
- Same process for Pan axis

= Target Position

P = Position

Amount of power
needed to move
the camera

= Actual Position

= Target Position

I = Time

Low value slow
High value fast

= Actual Position

= Target Position

D = Power Limit

Cruise control
for the power

= Actual Position

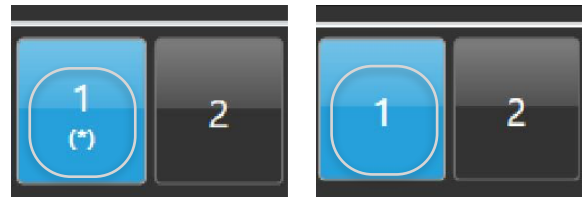## 12   Uploading adjustments to the MAXIMA and TRINITY

NOTE
After changing any of the settings, you have to **upload / write** the settings to the MAXIMA and TRINITY.

Click on Write to Device

The (*) indicates that there had been changes in the user profile and that these changes have **not** been uploaded to the MAXIMA / TRINITY.
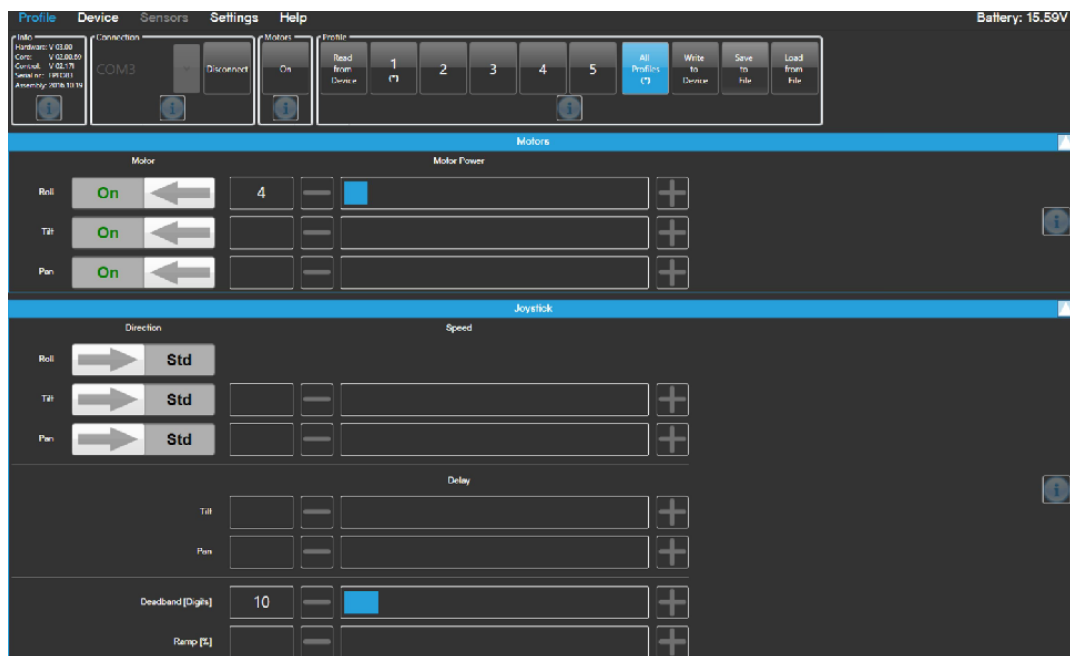After the upload the (*) will disappear.

NOTE
As long you see the (*) the changes will not be affective.

13   Cloning Settings

If you want to have the same motor power adjustments in all five user profiles,
click on **All Profiles**.

You will get a new tab in which you can program the motor power and other adjustments
like joystick and follow mode for all 5 user profiles.

Repeat step 6.0 for changing the motor power and press **Write to Device** step 7.0.

Now you will have the same motor power adjustments in all five user profiles.

14   Why is the MAXIMA / TRINITY vibrating?

14.1 Reason 1

Not suitable or loose components.
If the System vibrates, make sure that:
- The dedicated camera dovetail plate is mounted (Sam 1, 2 or 3)
- All screws clamps are fully tighten
- That no carbon fibre or stainless steel 15mm rods are used (aluminum rods are the best)
- That long lenses are supported with the dedicated lens support.
- That the matte box is not loose or causing vibrations.
- That the batteries sitting tight in the battery mount.

14.2 Reason 2

If the System still vibrates, lift the MAXIMA up from the table, case or the stand (the TRINITY
of the docking stand) to see if the vibrations will stops.

NOTE
Gimbals are made for elastic mounts, like humans, spring arms and so on.
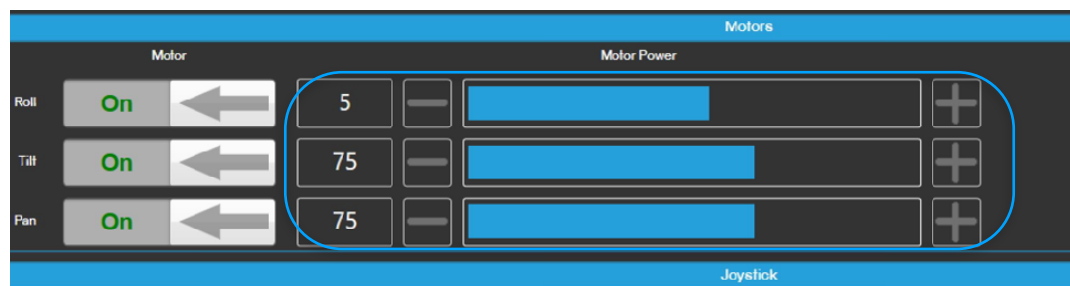Stands or tables are too stiff, that is why Gimbals start to vibrate.

14.3 Reason 3

The motor power is too high.

15   The right Motor Power

If the system is still vibrating, you will need to adjust the motor power of the Tilt and Pan axis.
Go back to step 6.0 or 7.0 and decrease the motor power value by five steps.

NOTE
Press **Write to Device** and check if the change will give you the expected improvement and has removed the vibrations.

16   Adjusting the Joystick to your personal preferences

To ensure the best control of the MAXIMA and TRINITY and to create your personal style of moving the device, you need to adjust the touch and feel of the the Joystick.
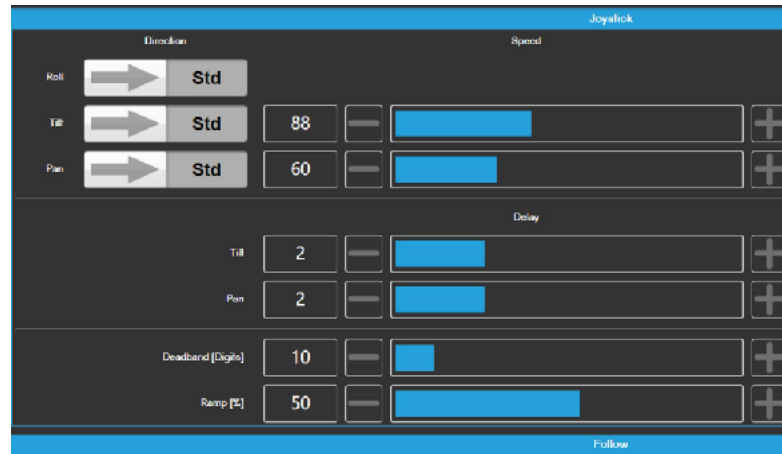

16.1 Adjustments and Functions

- **Direction:**
Sets the direction in which the pan and tilt axis will go.
The pan and tilt direction can also be opposite to the joystick direction.

- **Speed**
Sets the speed of the pan and tilt axis.
NOTE
The real speed of the pan and tilt axis can be much higher than the speed of the joystick.
NOTE
With the TRINITY you can only access the Tilt speed.

- **Delay**
Sets the acceleration and the deceleration of the pan and tilt axis.
Or how fast the pan and tilt axis will reach the adjusted speed when the movements starts and how soft the movement will stop.
NOTE
A low value will ensure that the head will stop right away, when the joystick movement stops.
A higher value will add a smooth movement after the joystick movement had stoped. Higher values will make operating the MAXIMA / TRINITY more and more indirect.

- **Deadband**
Sets the starting point of the Joystick. This value controls when the Joystick will react after you touched it.
The lower the value, the more direct the joystick will react.
The higher the value, the slower the joystick will react.
NOTE
If you want to do a running shot with a lot of body movement, you should set the Deadband to a value higher than 5.
This ensures that, if you touch the Joystick accidentally that there will be no unwanted movement in the head.

- **Ramp**
Sets how much ramp will be on the joystick movement.
This value allows you to set a ramp, or how direct the joystick will react.
A low value will make the joystick very direct, while a higher value will add a soft ramp to the joystick movement.

17   Delay, Deadband, Ramp

17.1 Speed
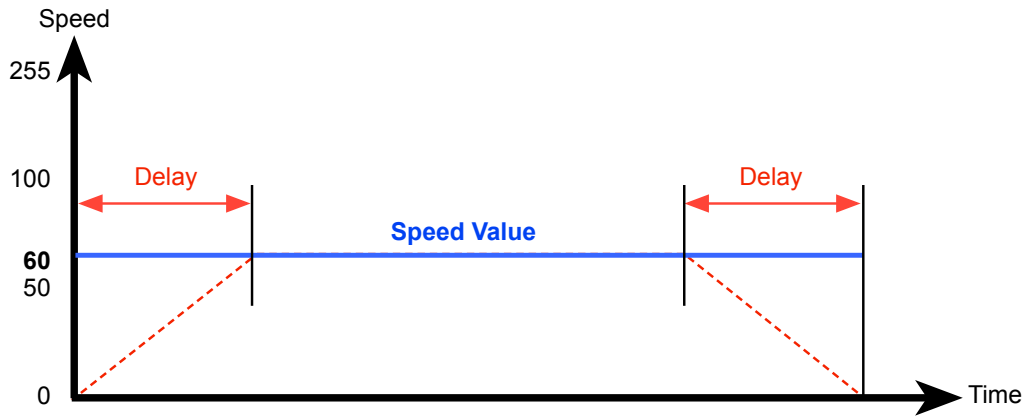
Sets the acceleration and the deceleration of the pan and tilt axis.
Or how fast the pan and tilt axis will reach the adjusted speed when the
movements starts and how soft the movement will stop.

17.2 Deadband and Ramp

Deadband sets the starting point of the Joystick.
This value controls when the Joystick will react after you touched it.
Ramp sets how much ramp will be on the joystick movement.
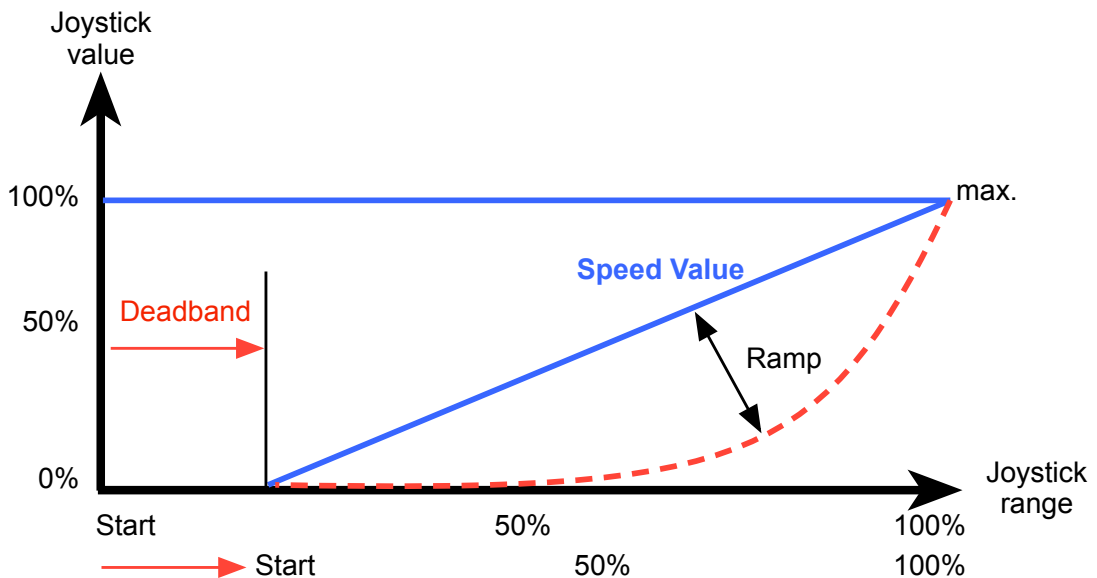
NOTICE
All three parameters are related to each other.

If the speed is adjusted to a value below 50, keep the ramp value as low as possible.
If the value is to high, there will be more or less NO movement in the end.

18   Defining Endstops

Depending on the size of the camera setup, the frame of the MAXIMA only allows certain amount of camera movement.

NOTE
Setting end stops will help to avoid the lens or camera colliding with the frame of the MAXIMA or the base plate of the TRINITY.

This adjustment will be performed in the **Device** settings.
After clicking on **Device** you will see this tab.

Here you can later dial in the needed values in degrees for the single axes.
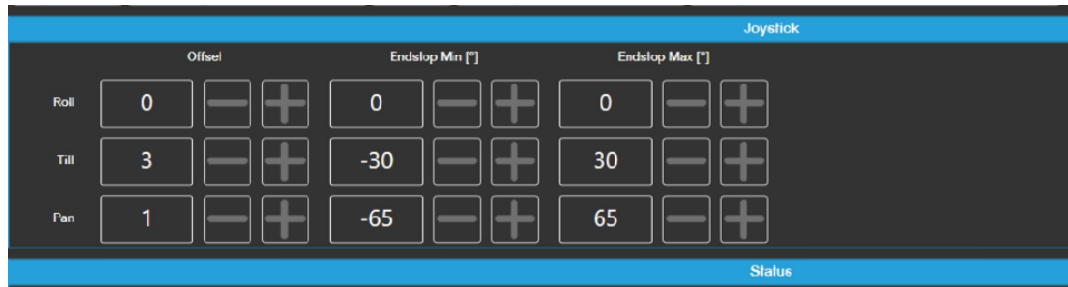
To define the required angle for each axis, use the Joystick and move the camera setup carefully
into the required end position.

While moving the camera, you can see the white arrow moving and indicating the value.

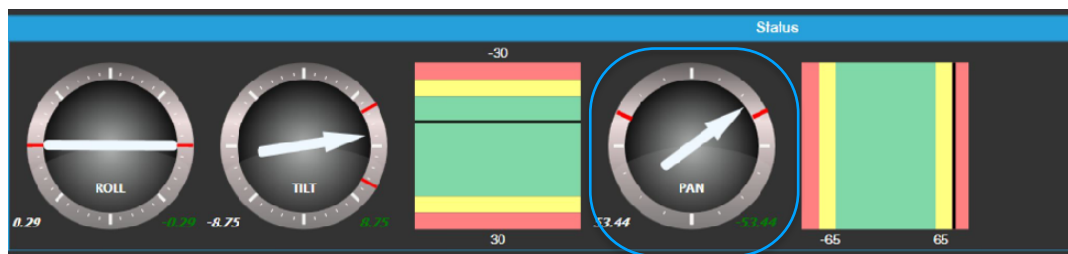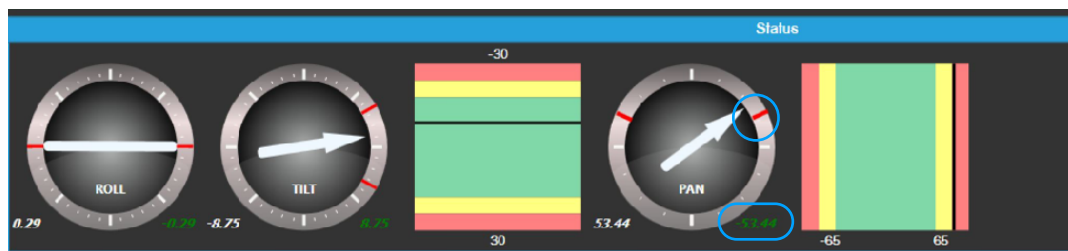To transfer the values, you can use **+** and **-** to move the red cursor to the tip of the white arrow.

Or you type in the values,
which are shown in lower left and right corners.

19   Follow or Fully Stabilized Mode

19.1 MAXIMA Modes

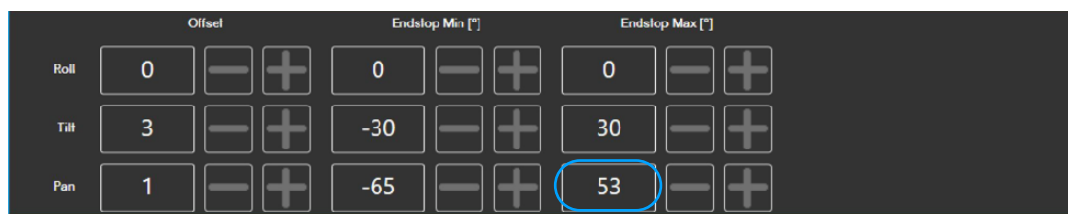| Follow Mode	Fully Stabilized Mode
Handheld	Handheld
Easyrig	Remote Controlled
With artemis Vest & Arm	Hard Mounted on Crane or Dolly

19.2 TRINITY Modes

Fully Stabilized Mode	Follow Mode
TRINITY moves	Classic Steadicam™ Mode
MSP-1 mounted with Easyrig	
Remote Controlled	MSP-1 mounted with Easyrig
Hard Mounted on Crane or Dolly	

19.3 Follow Mode default preset MAXIMA

Preset	Axes	Follow	Speed	Deadband	Ramp%	Description
1	Tilt	On	180	1,0	20	Both axes will follow fast and very directly.
	Pan	On	180			
2	Tilt	Off	180	1,0	20	Only the Pan axis will follow fast and very directly, while the Tilt axis is fully stabilized.
	Pan	On	180			
3	Tilt	On	50	6,0	50	Both axes will follow later and more indirectly.
	Pan	On	50			
4	Tilt	Off	50	6,0	50	Only the Pan axis will follow will follow later and more indirec, while the Tilt axis is fully stabilized.
	Pan	On	50			
5	Tilt	Off	180	5	50	Both axes are fully stabilized. This is the mode you will need for wheels, like the PLC Wheels.
	Pan	Off	180			

NOTE

If the camera setup is in the Heavy Payload range, please use user preset 3 and 4 when you need Follow Mode.

19.4 Follow Mode default preset TRINITY

| Preset	Axes	Follow	Speed	Deadband	Ramp%	Description
1	Tilt	Off	180	5	30	User preset 1 is the so called TRINITY mode, a fully stabilized mode.
2	Tilt	On	180	0,0	5	User presets 2 and 3 is the classic Steadicam™ mode, but with a stabilized roll axis for a steady horizon.
3	Tilt	On	180	0,0	20	User presets 2 and 3 is the classic Steadicam™ mode, but with a stabilized roll axis for a steady horizon.
4	Tilt	On	0	1,0	50	User preset 4 is TRINITY mode with a locked Roll axis. The roll axis can be Dutched.
5	Tilt	On	180	0,0	50	User preset 5 is a fully locked classic Steadicam™ mode.

NOTE
In all modes you can use the wired or wireless Joystick to control and to support the camera movement and the framing.
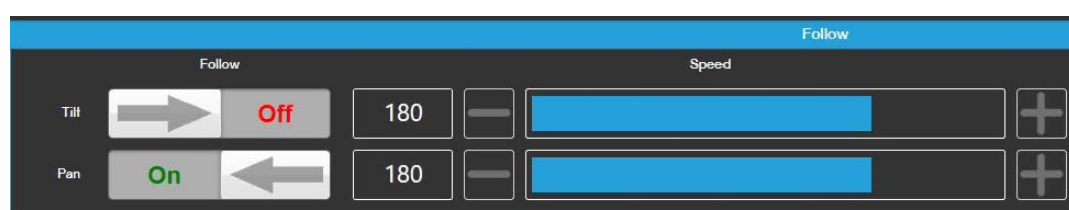
19.5 Changing the Modes

To change from **Follow** to **Fully Stabilized Mode** switch the Follow **On** to **OFF**.
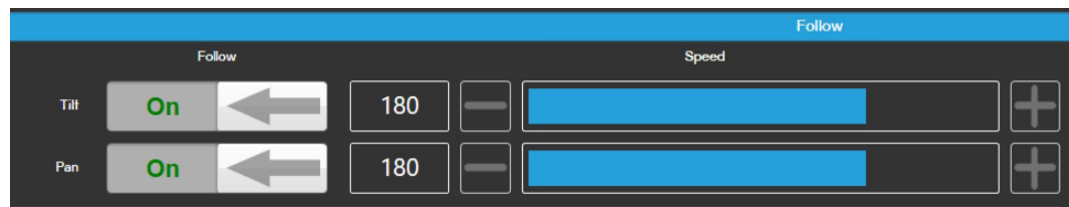
Both axes in Follow Mode
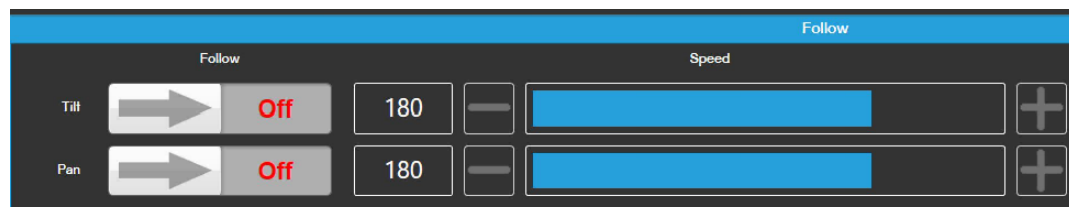
Both axes in Fully Stabilized Mode

Tilt in Fully Stabilized Mode and Pan in Follow Mode

19.6 Adjusting the Values

|	
Speed	Sets the speed how fast the camera will be pulled out of the deadband zone.
Deadband	Sets the angle of the starting point when the camera will follow the MAXIMA / TRINITY movement. The lower the value, the faster the camera will follow. The higher the value, the later the camera will follow. **NOTE** If you want to do a running shot with a lot of body movement, you should set the Deadband to a value higher than 5.
Ramp %	Sets how smooth the camera will be pulled after the camera left the deadband zone. A low value, will let the camera engage fast and direct. A higher value, will let the camera engage very smooth and indirectly.

19.7 MAXIMA application settings

Applikation	Action	Mode	Speed	Deadband	Ramp
Handheld Direct	Lot of body movement	Follow	180	1,0	20
Handheld Indirect	Lot of body movement	Follow	50	6,0	50
Easyrig Direct	Lot of body movement	Follow	180	1,0	20
Easyrig Indirect	Lot of body movement	Follow	50	6,0	50
artemis arm and vest	Lot of body movement	Follow	50	6,0	50
Black Arm	Hard mounted	Fully Stabilized	180	1,0	10

20   Saving and Loading Profiles

20.1 Saving Profiles

You should store your settings on the drive, USB stick or into a cloud.
Click on **Save to File** and the window below will appear.
Name the profile and store it.
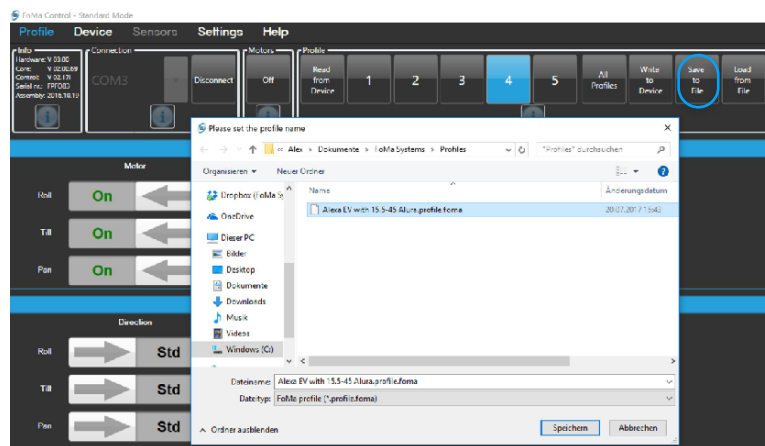
NOTE

If you are in one of the five profiles and you press STORE, only the actual profile will be stored.
If you want to store all 5 profiles in one single file, you need to press first ALL PROFILES and than you need press STORE, to save the file.

20.2 Load Profiles

You can load any stored profile to any of the 5 profiles of the connected MAXIMA / TRINITY.
To load profiles from a drive, USB or a cloud drive, click on **Load from File**.
Click on **Load from File** and the window below will appear.
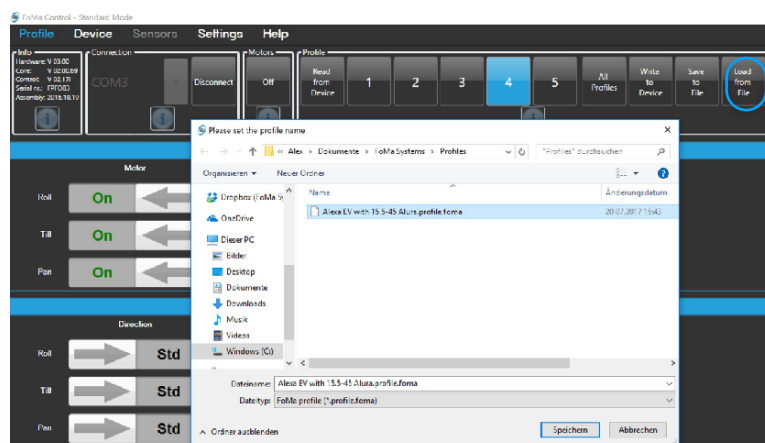
NOTE

If you do not own the computer that you are using for these setups, then you should save the profiles onto an USB stick.

NOTE

Make sure that the profiles had been programmed on the same GUI / software version.

21   Troubleshooting

21.1 Service Information

For Service and Remote Access we will need to know the firmware version and serial number.

- Press **OK**
- Press **DOWN** until **Info** is displayed
- Press **OK** to confirm
- Now you can see the required information

```
1. Joystick
2. Remote
3. Calibration
4. Remote Pairing
5. Restore
6. Info
7. Exit
```

21.2 Restore Sensors

If the MAXIMA or TRINITY is hard to control or having troubles holding its position, it will be helpful to reset the sensors.

- Press **OK**
- Press **DOWN** until **Restore** is displayed
- Press **OK** to confirm
- Press **DOWN** until **Sensors** is displayed
- Press **OK** to confirm

```
1. Joystick
2. Remote
3. Calibration
4. Remote Pairing
5. Restore
6. Info
7. Exit
```

> ⚠ **CAUTION**
>
> **Do not touch or move the MAXIMA or TRINKTY while you restore the Setting! Wait until the TRINITY is back in operation.**

21.3 Restore Settings

If you are working with a rental unit, it will make sense to restore the MAXIMA / TRINITY to factory setup.
This will ensure that you will not be confronted with any unknown settings.

- Press **OK**
- Press **DOWN** until **Restore** is displayed
- Press **OK** to confirm
- Press **DOWN** until **Setting** is displayed
- Press **OK** to confirm

```
1. Joystick
2. Remote
3. Calibration
4. Remote Pairing
5. Restore
6. Info
7. Exit
```

> ⚠ **CAUTION**
>
> **Do not touch or move the MAXIMA or TRINKTY while you restore the Setting! Wait until the TRINITY is back in operation.**

21. 4 Remote Access

The service team can remotely access the MAXIMA or TRINITY. To enable us to access your MAXIMA or TRINITY, you need to install the „TeamViewer" software on your PC first.

https://www.teamviewer.com
Then you need to contact the ARRI service.
NOTE
You will need a stable internet connection.

TeamViewer

22 Pan Lock

Using the MAXIMA Pan Lock

22.1 Preparing the MAXIMA GUI

NOTE
Before you can use the MAXIMA Pan Lock (K2.0014908),
you have to switch **OFF** the Pan axis.

22.2 Mounting the MAXIMA Pan Lock

• Open both Clamps and place the bracket onto the rods.

• Move the bracket under the outer ring and tighten the clamp screws

⚠ **CAUTION**
Before using the Pan Lock, you need to switch OFF the Pan Motors using the GUI!
Using the Pan Lock with an active motor will cause over heating and possible failure of the Pan motors.

23   Setting up the PLC wheels

> ⚠ **CAUTION**
>
> **For working with the external PLC wheels, the
> MAXIMA and TRINITY need to be specially adjusted.**
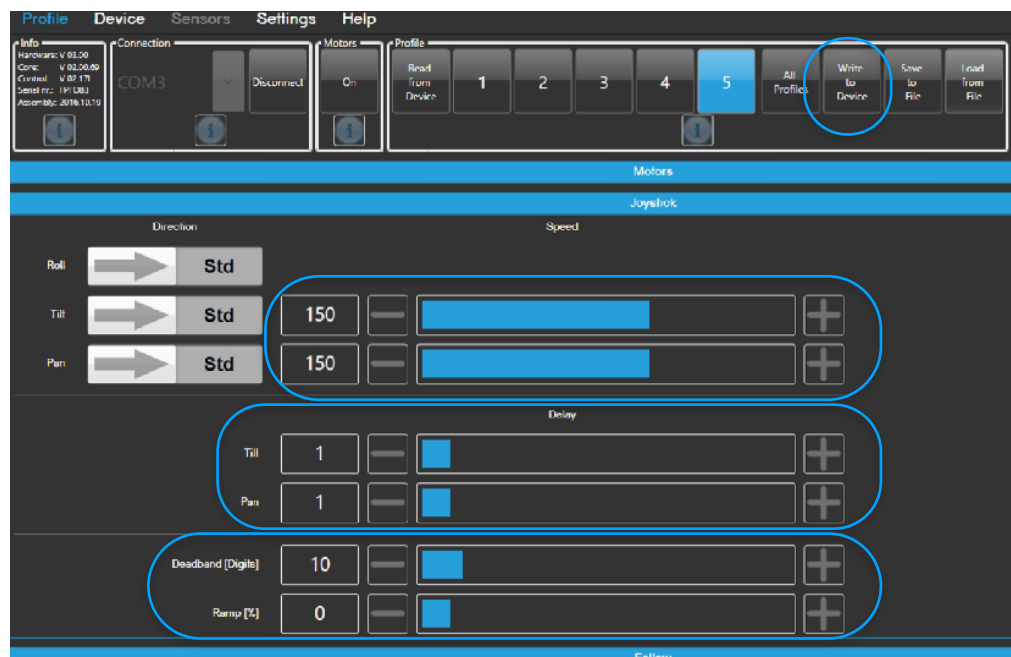
NOTE
Use **User Preset five** for the wheels setup.

You need to set the Tilt and Pan axis to Fully Stabilized Mode.

23.1 Joystick Values

You need to adjust the Joystick values to the settings below.

Needed values

| Axis	Speed	Delay	Deadband	Ramp
Tilt	150	1,0		
Pan	150	1,0	10	0 %

NOTE
Before you can start using the wheels, you need to read the PLC manual, which can be
found here:
http://shop.plcelectronicsolutions.com/content/Veracity_Operation_Manual%20Wireless.pdf

23.2 Paring the Wheels

- First power **Off** the PLC wheel, by removing the power cable

- Press the **OK** key

- Press **Down** until **Remote Pairing** is displayed

- Press the **OK** key

- Now the MAXIMA / TRINITY will start a 10 sec. count down.

- After **5 sec.** the MAXIMA / TRINITY will **beep**.

- **Plug** the power cable into the PLC wheels.

- Now the PLC will be paired
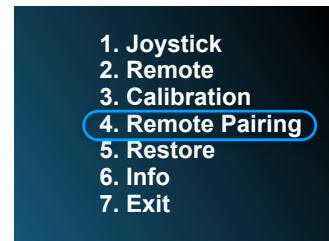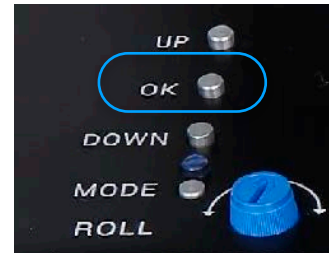
23.3 Using the 3. Wheel for the Roll axis

If you want to control the Roll axis by a third wheel, you need to go first into the **Advance Mode**.
(Revere to Changing from Standard to Advanced Mode)

For the Roll axis you have to change from **Angle to Speed**.