

# **en/MK-Parameter/Easy-SETUP**

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**Quick selection****Open the description -> click Button**

Channels	Configuration	Stick	Looping	Altitude
Camera	Navi-Ctrl	Navi-Ctrl 2	Output	Misc
Gyro	User	Coupling	Mixer-SETUP	Easy Setup

This page as an **PDF-Document?**  
Click on that Symbol and wait a little moment... --->

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Easy SETUP

-  [deutsch](#)

Parameterset 3 : Easy

Channels Configuration Stick Looping Altitude Camera Navi-Ctrl Navi-Ctrl 2

Output Misc Gyro User Coupling Mixer-SETUP Easy Setup

Name of configuration: Easy

Enable Altitude control Mode: Vario altitude control

Setpoint: Ch 5

Stick neutral: 127 0 - automatic 127 - middle position ← GAS: 127

point

Auto Start/Land Channel: Ch 13

GPS

GPS Mode Control: Ch 6

Dynamic Position Hold

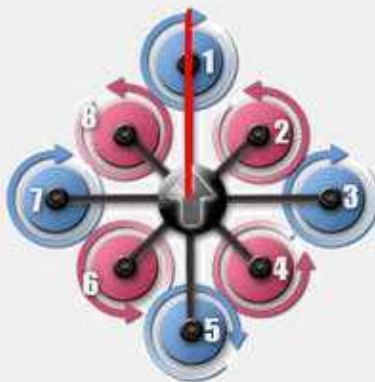
Coming Home Altitude: 50 [m] 0 - disabled

Carefree control: Ch 8

Teachable Carefree

Mixer-SETUP Octo2

Load...



P1 [Ch 5]=0 P2 [Ch 6]=0 P3 [Ch 7]=0 P4 [Ch 8]=0

P5 [Ch 9]=0 P6 [Ch 10]=0 P7 [Ch 11]=0 P8 [Ch 12]=0

Parameterset:  Expert view

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Read Write

OK Help Load... Save...

In the Easy Setup all important settings of the Mikrokopter are summarized on one page. This makes the basic setup very easy.

- **Name of configuration**

In the KopterTool you can set and save 5 different settings (configurations).

Under *Name of configuration* you see the name of the chosen setting. This can also be changed by yourself.

The names of the settings are:

- ◆ **Setting 1 = Fast** (Sporting flight attitude)
- ◆ **Setting 2 = Normal** (Average flight attitude)
- ◆ **Setting 3 = Easy** (Basic flight attitude)
- ◆ **Setting 3 = Easy** (Basic flight attitude)
- ◆ **Setting 3 = Easy** (Basic flight attitude)

These settings can be adjusted individually via the KopterTool.

To select the settings with the transmitter the proceed as follows (the motors are off):

- ◆ Setting 1 => Roll left + Nick middle **plus** Gas up + Gier left
- ◆ Setting 2 => Roll left + Nick up **plus** Gas up + Gier left
- ◆ Setting 3 => RRoll middle + Nick up **plus** Gas up + Gier left
- ◆ Setting 4 => Roll right + Nick up **plus** Gas up + Gier left
- ◆ Setting 5 => Roll right + Nick middle **plus** Gas up + Gier left

#### • **Enable Altitude control**

Disabled by default. Here you can enabled / disabled the function of the altitude controller.

If the altitude controller is activated, the function **automatic AltitudeHold** can be switched on/off via a switch on the transmitter.

So when you switch ON the function with the switch on the transmitter, the altitude sensor takes the complete control of the total thrust.

In this case, not the rotation speed of the motors is influenced via the gas stick. In this case the reference value for the level is shifted.

Example:

- The throttle stick is in the middle position => the copter hold the current height.

- If the stick is moved upwards the desired value for the altitude is shifted upward

◆ => the copter rises.

- If the stick is moved downwardly the desired value for the altitude is shifted downward

◆ => the copter sinks.

Applies here: Depending of the position of the stick for up/down the copter will slow or faster go up/down.

#### ◆ **Info:**

If you activate here the function *Enable Altitude control*, automatically the fashion "Vario-height" is selected ([Link](#)).

More informations about the altitude sensor you can find here: [Altitude sensor](#)

#### • **Setpoint**

Set by default to Ch5. To use the Function *AltitudeHold* you need a 2-way switch on your transmitter who is also set to channel 5. But you can also use a other channel for the switch. You have only to set the same channel of the switch here under *Setpoint*.

(How the channels are assigned to the switches on the transmitter, can be found in the manual of the transmitter)

In this example the switch on the transmitter is assigned to 5 (Ch5).

If you switch this button now at the transmitter, the bar display next to the selection box is going up/down.

#### • **Stick neutral point**

Set by default to 127 => Central position of the throttle stick.

#### ◆ **INFO:**

If you not remove the spring of the throttle stick, the throttle stick will also be automatically in the middle position. If you then use the function *AltitudeHold* the copter will also hold

automatically the altitude.

If the spring is removed you have to move the stick yourself to the middle position.

- **Auto Start/Land Channel** (ab V2.00)

Set by default to Inaktiv. With this function you can automatically start and land the copter.

To use the function *Auto Start/Land* you need also a 2-way switch and a free channel on your transmitter. The used channel for the switch on your transmitter you have to set under *Auto Start/Land Channel*.

(How the channels are assigned to the switches on the transmitter, can be found in the manual of the transmitter)

- ◆ **INFO**

To use the function *Auto Start/Land* you have to switch ON the function *AltitudeHold* (fashion "Vario-height" must be selected under [Altitude](#) !)

- ◆ Function of the switch *Auto Start/Land*:

◇ Switch is OFF => Auto Land

◇ Switch is ON => Auto Start

- ◆ The procedure:

- After you switch ON the transmitter and the copter you calibrate the Gyros.
- All functions (switches on the transmitter) are OFF.
- Activate now function *AltitudeHold*.
- Start the motors of you copter.
- Move the throttle stick slowly to the middle position - the copter will not go up because the function *AltitudeHold* is ON.
- Now change the switch for *Auto Start/Land* to ON => the copter will automatically start and fly in an altitude of ~1-2m.

- **GPS**

Enabled by default. Here you can enabled / disabled the function of the GPS.

If the function is selected you can use functions like [PositionHold](#) or [ComingHome](#) with a 3-way switch on your transmitter. (a Set Navigation is needed)

- **GPS Mode Control**

Set by default to Ch6. To use the functions *PositonHold* and *ComingHome* you need a 3-way switch with a free channel (here channel6) on your transmitter.

(How the channels are assigned to the switches on the transmitter, can be found in the manual of the transmitter)

- **Dynamic PositionHold**

Enabled by default.

- Here you can activate / deactivate the function *Dynamic PositionHold*.

Genutzt wird "Dynamic [PositionHold](#)" mit der Funktion PositionHold.

- ◆ **Function ON:**

Here the copter can be moved to a new position by using the nick-/roll stick.

The target-value of the GPS coordinates will be shifted. With this a more accurate positioning is possible - even with wind.


It will move to the positions a little bit slower.

- ◆ **Function OFF:**

The copter is controlled directly by moving the nick-/roll stick.

The function PositionHold will be disabled by stick movement.

And it will be re-enabled at the new position after you release the sticks.

- ◆  Note: Default is ON. Can be disabled at "EasySetup" or "NaviControl2".

- **ComingHome Altitude**

Disabled by default. Here you can set an altitude. The copter will use this altitude if you use the function ComingHome. Also during a [FailSafe](#) the copter is using this altitude.

- After activate the ComingHome function, the MikroKopter flies automatically back to the starting point.  
(a GPS satellite fix has to be present!).  
During the return flight, the copter takes the amount who is set here and fly's back in this altitude to the 'Home position'. If he reach the home position the copter will stay at this altitude and you can land the copter manually.  
During the return flight, the set altitude is served with 3m/sec - this you can not change!

Applies here:

- ◆ 0: Out -> the current height of the copter is maintained.  
1-247: Altitude in meter -> The copter will fly to this altitude if you activate ComingHome (CH).

## IMPORTANT


The copter flies only to this altitude and hold it if:

- - **the function AltitudeHold is activated and you use the *Vario altitude control*.**  
- the throttle stick must be in middle position.
- **Carefree control**  
Set by default to Inaktiv. If you use the Set Navigation (NaviCtrl with compass and GPS) you can use the function [CareFree](#) too.  
To activat / deactivate the function *CareFree* you need a free channel and a 2-way switch on your transmitter. This used channel for the switch you set here under *Carefree control*.  
(How the channels are assigned to the switches on the transmitter, can be found in the manual of the transmitter)<<BR>
- **The function:**  
When this function is "ON", the control direction of nick and roll is no longer fix on the "Front" (rigger Nr.1 of your copter). If you have activated the function the copter will use the compass. So if you start the copter and the function !Care Free is activated, the direction where the front rigger shows is now the front. And this also if you yaw the copter.
- **Teachable [CareFree](#)**  
Enabled by default. If you use "Teachable CareFree" you can also switch on/off the function during flight and change during flight the front direction.

**A distinction is made:**

- ◆ **The copter is Inside of a 20m radius around the place where you start the copter. If you activate here the function CareFree the direction in which the red rigger (rigger Nr.1) is now fix. If you now yaw the copter he will hold the direction for nick / roll.**
- ◆ The copter is outside dof a 20m radius around the place where you start the copter. If you

now activate the function CareFree it is doesn't matter in which direction the front rigger shows. Now the copter use the place where you start and the position where the copter now is for the direction. So the direction from the copter to the starting place is Nick backwards and the direction from the starting place to the copter is Nick forward. No matter in which direction the red rigger shows.

 Note: You can always change the CareFree direction if you **switch off and on** the function.

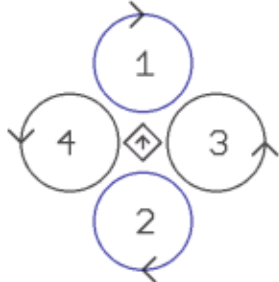
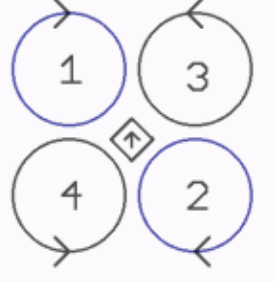
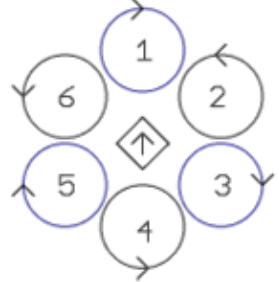
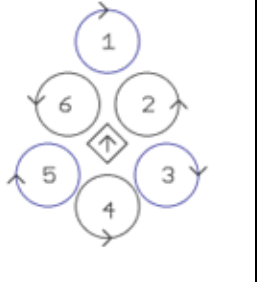
More informations: [CareFree](#)

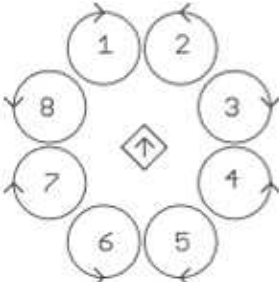
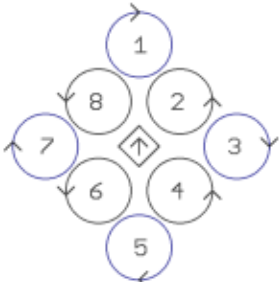
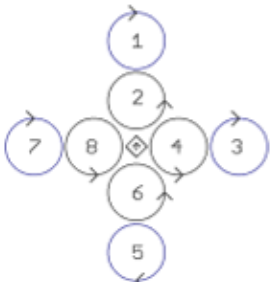
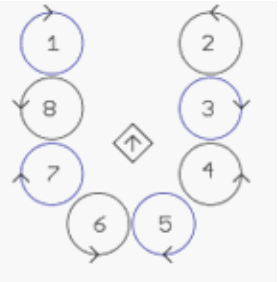
• **Mixer-SETUP**

Set by default to "Quadro". If you use a QuadroKopter (4) in "X" Direction or of you use a HexaKopter (6) or OktoKopter (8) you have to change here the mixer. The mixer tells the FlightCtrl how many motors are in use and the arrangement. INFO: [MischerTabelle](#).


There are already different tables in the mixer [KopterTool](#) available. To load the correct mixer table, the button **Load** can be clicked and the right .mkm file can be opened. After opening the appropriate table that will be then written with a "click" on the button **Write** into the [FlightCtrl](#).

INFO: .mkm Dateien => (the direction of rotation per motor will be shown in a graphic)

Quadro.mkm	Quadro-X.mkm	Hexa.mkm	Hexa2.mkm
			
For Basisset: Quadro(L4-ME) / QuadroXL	For Basisset: Quadro(L4-ME) / QuadroXL	For Basisset: Hexa / Hexa2 / HexaXL	No Basisset available.

Okto.mkm	Okto2.mkm	Okto3.mkm	Okto-U
			

For Basisset: Okto	For Basisset: Okto2-26 / OktoXL	No Basisset available.	No Basisset available.
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 The arrow in the middle represents the flight direction (forward) .

More Mixer-Tables are displayed here: [MKM-Daten](#) .