Version 2
OVERVIEW

MICROBEAST
3 AXIS MEMS GYRO SYSTEM FOR RC-MODEL AIRCRAFT

WWW.BEASTX.COM

SETUP MENU
(Menu LED is steady ON)

		Status-LED:	off	purple	red *flashing*	red	blue *flashing*	blue
A	**Mounting orientation**					upright (vertical)		flat (horizontal)*
B	Swashplate servo - **frequency**		**user defined**	50 Hz*	65 Hz	120 Hz	165 Hz	200 Hz
C	Tail servo - **center position pulse length**		**user defined**	960 µs		760 µs		1520 µs*
D	Tail servo - **frequency**		**user defined**	50 Hz*	165 Hz	270 Hz	333 Hz	560 Hz
E	Tail servo - **rotor endpoints**		tail stick - move to right endpoint and wait / left endpoint and wait					
F	Tail - **sensor direction**					normal*		reversed
G	Swashplate - **servo centering**		reference position	CH1 center pos.		CH2 center pos.		CH3 center pos.
H	Swashplate - **mixer**		**user defined**	mechanical	90°	120°*	140°	140° (1=1)
I	Swashplate - **servo directions**		nor | rev | rev	nor | nor | rev*		nor | rev | nor		nor | nor | nor
J	Swashplate - **cyclic pitch geometry**		aileron stick – adjust 6° cyclic pitch on the roll axis (blades aligned with fuselage)					
K	**Collective pitch range**		collective stick on max and min position and use tail stick to adjust desired pitch					
L	Swashplate - **cyclic limit**		move aileron, elevator and pitch sticks – adjust max limits with tail stick					
M	Swashplate - **sensor directions**		rev | rev	rev | nor		nor | rev		or | nor*
N	**Pirouette optimization direction**					normal*		reversed

PARAMETERMENÜ
(Menu LED is blinking quickly)

		Status-LED:	off	purple	red *flashing*	red	blue *flashing*	blue
A	Swashplate - **cyclic center adjustment**		aileron and elevator stick – reset with tail stick					
B	**Control behavior**		**user defined**	normal	sport*	pro	extreme	**transmitter**
C	Swashplate - **pitching up behavior**		**user defined**	very low	low	medium*	high	very high
D	Tail - **HeadingLock gain**		**user defined**	very low	low	medium*	high	very high
E	**Stick deadband**		**user defined**	1	2*	3	4	5
F	Tail - **torque precompensation (RevoMIX)**		**user defined**	off*				

* Factory setttings

⚠️ **Never fly while the MICROBEAST is in one of the setup or parameter menu!**
In this condition the gyro control and the stick controls are disabled.

Operation Mode

Menu LEDs: *Amount of tail gain Ⓐ=0% to Ⓝ=100%*
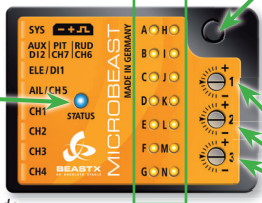*(only after powering up or when adjusting the gain)*

Button:

- *to enter setup menu push down several seconds until LED Ⓐ is steady on*

- *to enter Parameters menu push shortly until LED Ⓐ is flashing*

Status-LED:
Tail gyro mode:
off, flashing blue or blue
= HeadingLock mode

purple = Normal-Rate mode

Dial 1: *cyclic gain*
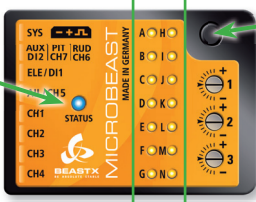**Dial 2**: *direct cyclic feed forward*
Dial 3: *tail dynamic*

Menu selection

Menu LEDs: ☀️ *steady on = setup menu*

☀️ *flashing = parameter menu*

Button:
press shortly for next menu point

Status-LED:
off
purple
red flashing
red
blue flashing
blue

Selection by **tail** stick input or **aileron / elevator / pitch** stick within menus as needed.