

Basic setup to get you going - Devo or multipro module

H8 mini (Bayang protocol) radio channel mapping:

Ch 1 - Roll
Ch 2 - Pitch
Ch 3 - Throttle
Ch 4 - Yaw
Ch 6 - Flip
Ch 9 - Headless
Ch 10 - RTH

One method to set up a switch on a Devo (or multipro module) to switch between acro and level modes:

1. Set up a switch on the Devo on Ch 9 so it switches between -100 and +100 (-100 is acro, +100 is level)
2. In config.h of the firmware, set the acro/level mode switch to "CH_HEADFREE". Note "headless" and "headfree" mean the same thing in this firmware.

Change the default level/acro switch in config.h from this:

```
#define LEVELMODE CH_AUX1
```

to this:

```
#define LEVELMODE CH_HEADFREE
```

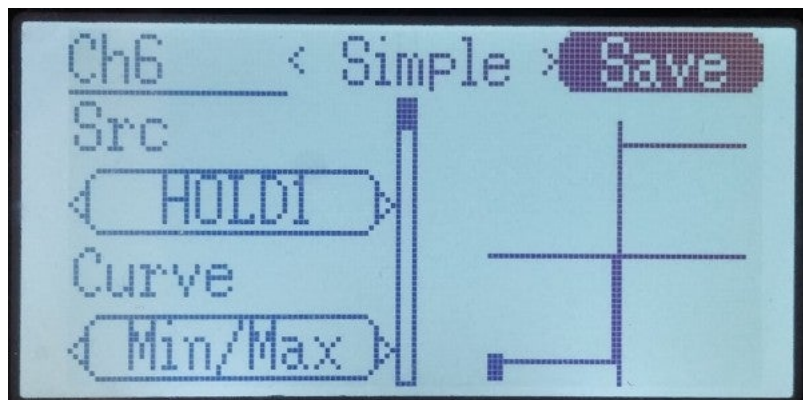
For a Devo or other tx using a Goebish multiprotocol module, it is sufficient to set the scale for each stick (or switch) to + and - 100%.

If you want to do an accel calibration, or use gestures to switch from level to acro mode, make sure your rates are at least 85%, or the stick movements will not register with the FC. Also, you need to be in level mode for an accel cal to work.

If you want to keep the headless function, then choose CH 6 or CH 10 for the level/acro switch and set the level/acro switch in config.h to suit (CH_FLIP or CH_RTH respectively).

In config.h, the default "#define LEVELMODE CH_AUX1" is used if you have a stock tx and want to use the gestures mode to switch between the acro and level modes. The gestures switch a virtual channel within the firmware named "AUX 1" on and off. A "gesture" consists of a stick sequence, left/left/down on the pitch/roll stick within 2 seconds, and then the LED's flash in recognition, and right/right/down to switch back. Gestures can be used with a Devo or other tx with a Goebish multiprotocol module, in lieu of a programmed switch.

Here is a pic of a Devo screen showing a level/acro switch set up on Ch 6 (thanks to czajunia on rcgroups). The HOLD1 switch has been selected as the source in the Devo, and the curve is set to min/max, so the radio output is -100 or +100 depending on the position of the HOLD1 toggle switch. For Devo Ch 6, you would set the level/acro switch in the firmware in config.h to CH_FLIP.



Rates:

For Devo or a multipro module, high rates is selected in config.h in the firmware, and then the low rate is set in your tx, to whatever value or values you prefer.

```
// rates / expert mode
#define RATES CH_EXPERT
```

The actual rate of the “high” or “expert” rates is selected here, in this case (the default values are shown), we have $180 \times 2 = 360$ degrees per second for the high rate. The firmware will accept up to 2000 degrees per second I believe, if you want faster rates, you can increase either the 180.0f value or the multiplier 2.0f.

```
// rate in deg/sec
// for low rates ( acro mode)
#define MAX_RATE 180.0f
#define MAX_RATEYAW 180.0f

// multiplier for high rates
// devo/module uses high rates only
#define HIRATEMULTI 2.0f
#define HIRATEMULTIYAW 2.0f
```

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