





The iGyro now automatically activates Heading mode, enabling you to see the gyro's effect as clearly as possible. Now check the direction of effect of the control surfaces: if the direction is incorrect, move the cursor to the appropriate channel and press the SET button to reverse the gyro's effect. Please take your time over this, and check everything very thoroughly!

When you are confident that all the control surfaces are correctly set up, select **OK**; this action switches Heading mode off again.

You have now completed the basic set-up procedure, and can fly the model using the TEST FLY ASSISTANT.

Here at PowerBox Systems we are committed to making high-tech electronics accessible to all pilots without requiring them to tackle complicated programming procedures. Our top priority is to make it as simple as possible to operate the equipment without restricting its performance. The iGyro was developed from the outset with this in mind, and that is why it constitutes a high-performance triple-axis gyro system which is simple to operate. However, from past experience we are aware that beginners to gyros in particular are wary of exploiting this technology, because they are frightened off by the effort involved in setting up the system.

PowerBox Systems have succeeded in further simplifying the set-up process, and believe we are setting new standards!

With the help of the Setup Assistant you should be in a position to set up the iGyro in no more than ten minutes. Once you have completed the basic settings, only a single flight is required for fine adjustment.

Although the iGyro is set up using its integral screen, please take the time to read through these instructions as they contain supplementary information which is useful during the set-up process.

The Assistant covers 99% of all model types, but its suitability for the following types is limited:

- Canards
- Models with thrust vectoring

The Assistant can be used to set up the primary functions for these types of model, but the non-standard functions mentioned above have to be set up manually.

Before carrying out the set-up flight we recommend that you run the Test Fly Assistant on the ground several times, to familiarise yourself with the sequence of operations and the way it works. It is also extremely helpful to have a fellow-modeller by your side during the set-up flight, as he will be able to follow the flow-chart, and keep abreast of the set-up sequence. The system also incorporates a safety function, should anything unexpected occur:

Moving the flight mode switch to the FM1 position disables all the gyro functions!

The set-up procedure is divided into two sections:

- SETUP ASSISTANT In this section you select all the model-specific settings, e.g. the gyro's One final reminder: please run this Assistant several times on the ground to familiarise yourself with its method of working. You will find small tick-boxes next to each individual step. If you have a friend to help you, ask him to tick each box to confirm which steps have already been completed. If you are not sure of the status of the Assistant at any time, it can be helpful to land the model and check before flying again.



In the main menu select the TEST FLY ASSISTANT.



At this point the iGyro carries out a self-calibration: hold the model still during this procedure.



Now move all the transmitter sticks to their end-points to define those points. Select **OK** when you are finished.



The iGyro now waits until the flight mode switch is at the FM1 position, and the gain adjuster is set to 0%, before proceeding.



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The model can now be launched! The gyro is active, and the gain adjuster is set

to 0%. Fly the aeroplane straight and level, and carry out a slow pass, at the same time advancing the gain adjuster until the model starts to oscillate around the aileron axis. At this point reduce the gain setting slightly. It is

The set-up procedure is divided into two sections: - SETUP ASSISTANT

In this section you select all the model-specific settings, e.g. the gyro's orientation in the model, channel assignment, direction of gyro effect.

- TEST FLY ASSISTANT

In this section you adjust the gyro's gain (sensitivity) while the model is flying. It is advisable to run this section of the Assistant several times before flying the model to ensure that you are familiar with the set-up procedure. Carrying out a 'dry run' in this way does not affect the settings of the **SETUP ASSISTANT**. However, if you are not confident of doing this, the alternative is to land the model after setting each value, and view the gyro's current status on the integral screen.

The only preparations you have to make are these:

- Enter the radio control system you wish to use in the RX SETTINGS menu
- Assign a three-position switch and a rotary knob or linear slider at the transmitter

The simplicity of the procedure is evident from the following flow-chart:



In the main menu select the SETUP ASSISTANT



At this point you define the gyro's physical orientation: six different combinations are possible.

For example, LEFT/RIGHT means left or right, and refers to the position of the gyro's integral screen.



Setting the wing and tail type.





Move the three-position switch previously selected at the transmitter: the Assistant automatically detects the channel. Select all the flight modes in turn, so that the Assistant can also check that the switch is working properly. In this example the gyro has identified Channel



Move the knob or slider which is to adjust gyro gain: the iGyro automatically detects the channel. Now move the adjuster through its full travel, i.e. from 0% - 100%. If the Assistant does not accept the travel (OK), increase servo travel for that channel to -105% to +105% at the transmitter.



Move the aileron stick: the iGyro automatically detects whether you are using one or two channels for aileron control. If you accidentally move a different function at the transmitter, simply move the correct one afterwards. Use the transmitter's servo monitor to check your selection.



Move the elevator stick: the iGyro automatically detects whether you are using one or two channels for elevator control.

Use the transmitter's servo monitor to check your selection.



Move the rudder stick.

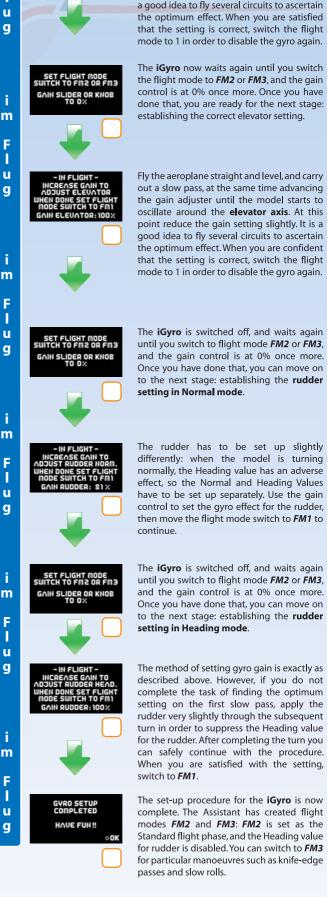
Use the transmitter's servo monitor to check your selection.



Move the flight mode switch to the FM2 or FM3 position



SET FLIGHT MODE



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advancing the gain adjuster until the model

starts to oscillate around the aileron axis. At

this point reduce the gain setting slightly. It is

The iGyro Setup Assistant has stored the same values for aileron and elevator for both Normal and Heading modes. Naturally it is possible at any time to adjust or fine-tune the settings subsequently. For example, you might wish to set up different settings for the Normal or Heading values, or activate the Booster for particular axes.

Note: if you are a 3D pilot, we recommend that you program at least one flight mode without a Heading value: when a model is flying a 3D manoeuvre, its lack of airspeed makes it incapable of moving in all directions, and the gyro's attempts to maintain position may cause control surfaces to move to their end-points. If the model then picks up speed again, the deflections could cause the model to carry out unexpected movements.