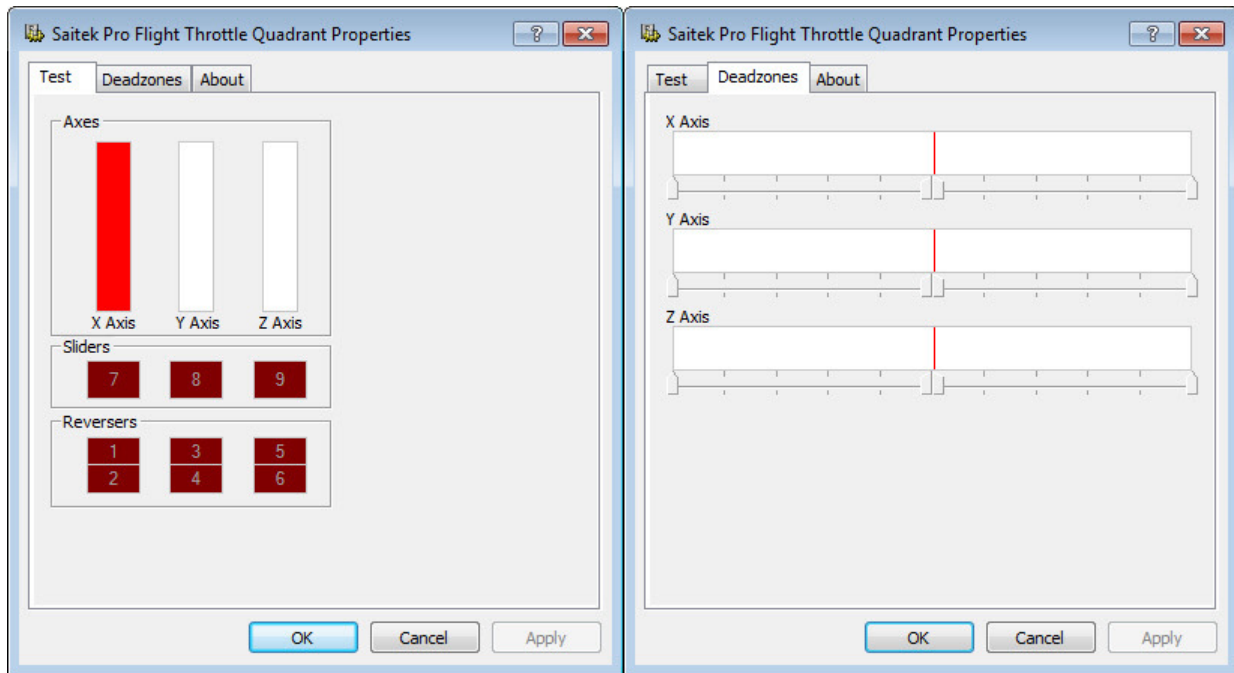# Throttle calibration with FSUIPC

Step 1 – Calibration in Windows – Devices and Printers
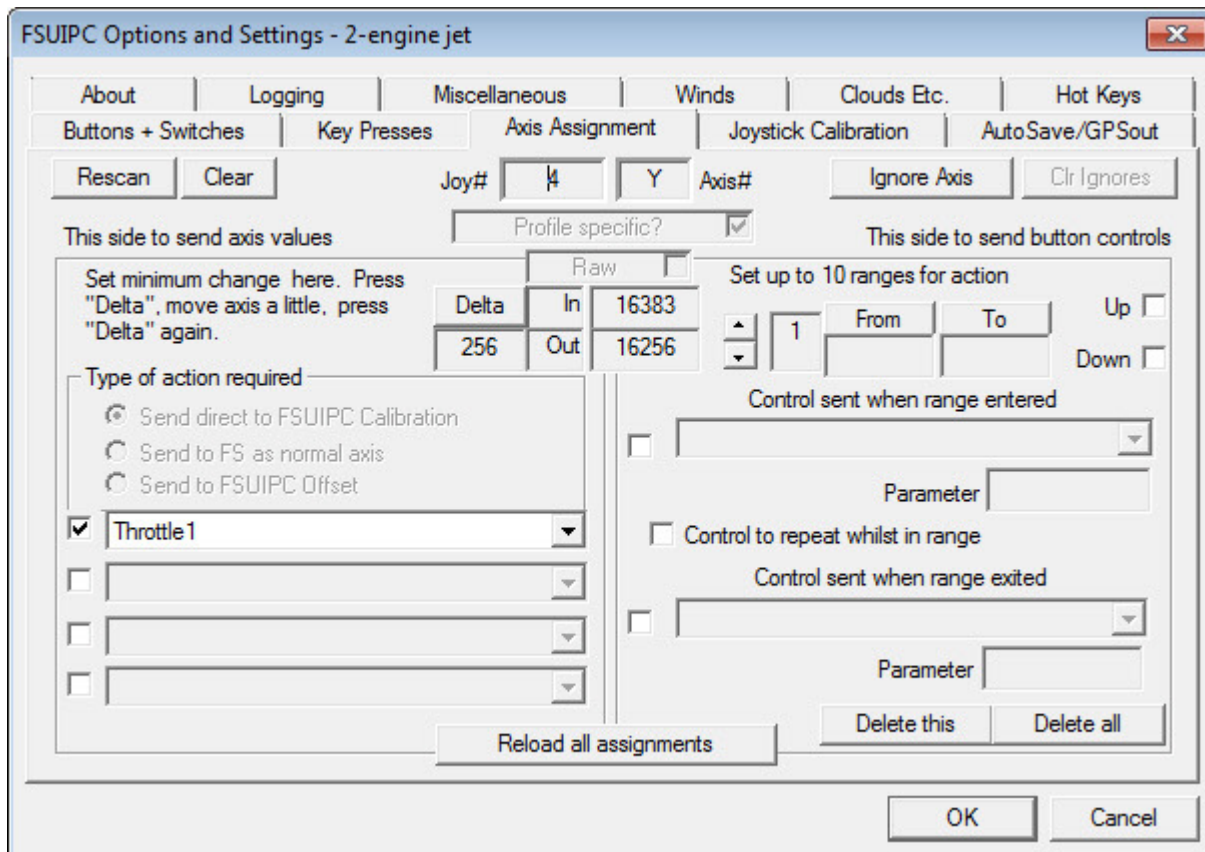
Right click for "Game controler settings"

Make sure that when you move your hardware throttle that the red bar is moving through the whole range. Use the tab "deadzones" to adjust if it does not.

Step 2 – Calibration in FSUIPC

You need to have a registered FSUIPC version that you can do individual adjustments and use the full program capabilities. When you open FSUIPC it should like this for a registered version.
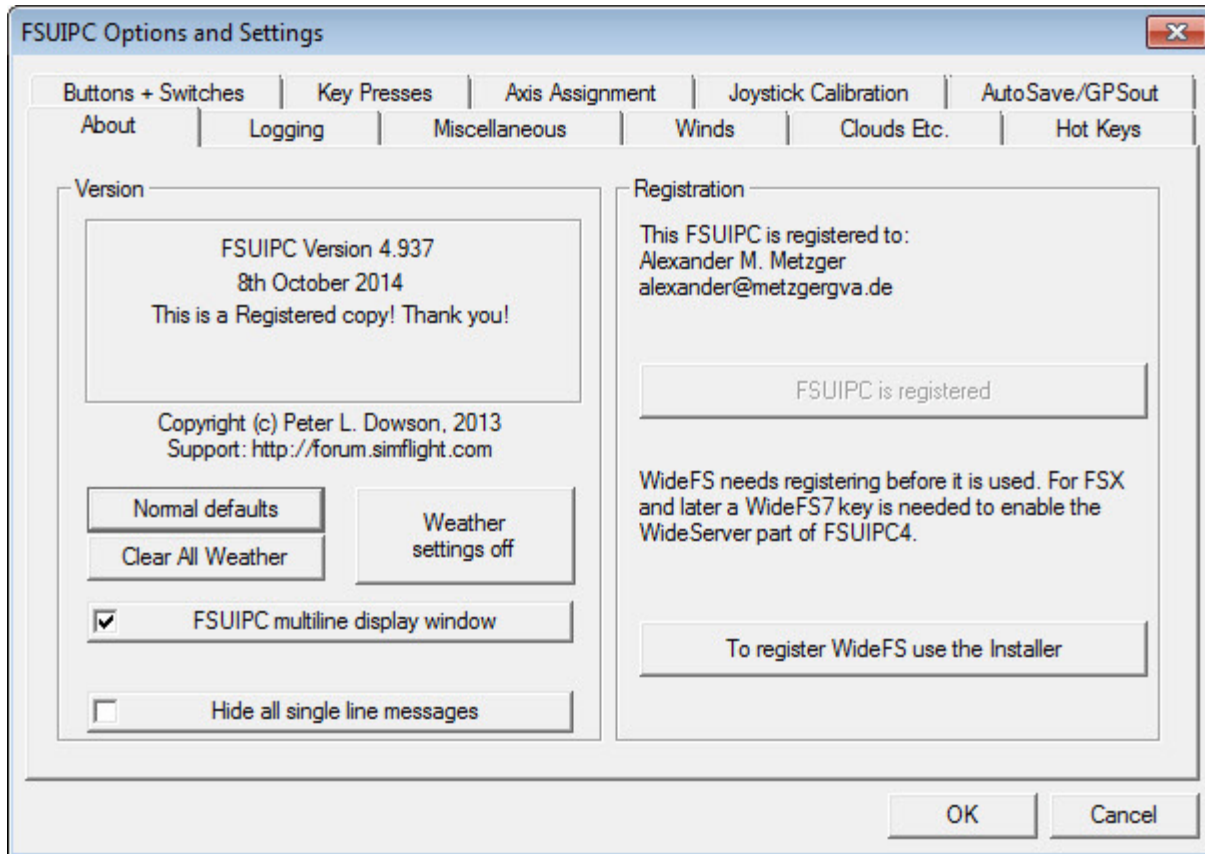
After pressing <Rescan> you can assign the axis "Throttle1" and option "Send directly to FSUIPC Calibration"

Use<Reset> to eliminate a current axis processing. Then press <Set> to allow configuration.

Moving the throttle you should see running "In" and "Out" values in synchronization.

Press <Set> to obtain the default values. This automatically assigns a reverse range which we need to eliminate.

FSUIPC Options and Settings

About	Logging	Miscellaneous	Winds	Clouds Etc.	Hot Keys
Buttons + Switches	Key Presses	Axis Assignment	Joystick Calibration		AutoSave/GPSout

No reverse Zone   ◀   3 of 11: Separate throttles per engine   ▶   Profile Specific

	Reverse	Idle	Max			Reverse	Idle	Max

Throttle 1 (direct!)

Reset	☐ Filter	Set	Set	Set
-16384 In		-16380	-512	16380
-4096 Out	☐ Rev		512	Slope

Throttle 3

Reset	☐ Filter	Set	Set	Set
0 In		-16384	-16384	16380
0 Out	☐ Rev		-16123	Slope

Throttle 2 (direct!)

Reset	☐ Filter	Set	Set	Set
-16253 In		-16384	-16384	16380
0 Out	☐ Rev		-16123	Slope

Throttle 4

Reset	☐ Filter	Set	Set	Set
0 In		-16384	-16384	16380
0 Out	☐ Rev		-16123	Slope

Reload all settings   Sync Pos   ☑ Exclude THROTTLEn_SET

OK   Cancel

Put your throttle to "idle" and press left <Set> and 2x middle <Set> button so that the "In" value is copied in the 3 fields.

FSUIPC Options and Settings

About	Logging	Miscellaneous	Winds	Clouds Etc.	Hot Keys
Buttons + Switches	Key Presses	Axis Assignment	Joystick Calibration		AutoSave/GPSout

No reverse Zone   ◀   3 of 11: Separate throttles per engine   ▶   Profile Specific

	Reverse	Idle	Max			Reverse	Idle	Max

Throttle 1 (direct!)

Reset	☐ Filter	Set	Set	Set
-16384 In		-16384	-16384	16380
-4096 Out	☐ Rev		-16384	Slope

Throttle 3

Reset	☐ Filter	Set	Set	Set
0 In		-16384	-16384	16380
0 Out	☐ Rev		-16123	Slope

Throttle 2 (direct!)

Reset	☐ Filter	Set	Set	Set
-16253 In		-16384	-16384	16380
0 Out	☐ Rev		-16123	Slope

Throttle 4

Reset	☐ Filter	Set	Set	Set
0 In		-16384	-16384	16380
0 Out	☐ Rev		-16123	Slope

Reload all settings   Sync Pos   ☑ Exclude THROTTLEn_SET

OK   Cancel

Moving the throttle thereafter the out value should read "0" if the "In" value is the same as the "set" values.

In case your "In" value is a bit reluctant to go always to the same value you may add some margin by setting the middle lower field a bit higher. This is done by moving the throttle a bit up and only press the middle lever.

In your FSUIPC.ini, residing in SIM\Modules, you should find the throttle calibration stored as

Throttle1=-16384,-16384,-16123,16380
Throttle2=-16384,-16384,-16123,16380
Throttle3=-16384,-16384,-16123,16380
Throttle4=-16384,-16384,-16123,16380