

INSTALLATION MANUAL FOR USING YOUR THROTTLE V3, V4, V5

Version 1.7.00



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V3,V4,V5 TQ Installation Manual - version 2023-03-23



Installation manual for using your TQ

Thank you for purchasing the motorized version V3 of our new COCKPITFORYOU 737 throttle quadrant. It has been assembled and tested with the greatest care. To make the installation as convenient as possible for you, we tried to describe the installation process in great detail. Should you still experience difficulties with the setup or operation of your throttle quadrant, please do not hesitate to contact us via email or phone. In the near future we will release a video setup tutorial in addition to this manual that will guide you through all the necessary steps.

We hope you will have as much fun flying your new TQ as we had engineering and assembling it.

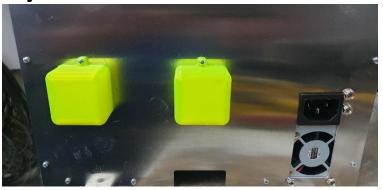
1. Before getting started

- download CFY_TQ.zip latest version
- https://cockpitforyou.com /instructions

2. Connecting your Throttlew

Your motorized butterfly comes with 1 Ethernet port and 1 female PC power supply. PC power supply (90-250V / 50-60Hz)

3. Please remove the protective covers for network coupler and potentiometer for backlight brightness adjustment.











Ethernet cable:Plug in the Ethernet cable into a free port of an Ethernet switch.

Minimum requirement for switch is 100 Mbit.

3. installation software

- **1.** Create new folder "CFY" on drive C:
- 2. Extract CFY_TQ.zip to C: CFY
- **3.** Create new folder "CFY_TQ" on drive C:
- 4. In the folder C:\CFY double click the file "setup"



V3,V4,V5 TQ Installation Manual - version 2023-03-23

Name	Änderungsdatum	Тур	Größe
🔍 CFY TQ Console no Simconnect V1.9.2.zip	04.03.2021 16:58	WinZip File	3.397 KB
🛱 CFY TQ Setup.msi	02.03.2021 09:14	Windows Installer-Pa	3.916 KB
😪 setup.exe	02.03.2021 09:14	Anwendung	518 KB

CFY TQ Console	- 🗆 ×
Select Installation Folder	5
The installer will install CFY TQ Console to the following folder.	
To install in this folder, click "Next". To install to a different folder, ent	er it below or click "Browse".
<u>F</u> older:	
C:\Program Files (x86)\CockpitForYou\CFY TQ Console\	Browse
	Disk Cost
, Install CFY TQ Console for yourself, or for anyone who uses this co C Everyone	

Change the installation folder in "C: CFY_TQ"

elect Installation Folder		Ę
e fotulitzanili install CDV TO Consultate des follomine follos		
ne installer will install CFY TQ Console to the following folder. 9 install in this folder, click "Next". To install to a different folde	r enter it below or	click "Browse"
		CHER DIGWISE .
Eolder:		
C:\CFY_TQ\		Browse
		Disk Cost
Install CFY TQ Console for yourself, or for anyone who uses th	his computer:	
Everyone		
O Just me		

5. Press "Next" and follow installation instructions



6. When the installation is complete and the TQ is connected to the network, please switch on the power supply of the TQ. A small switch in front of the flaps lever.



7. Start the CFY Console in the CFY_TQ folder.

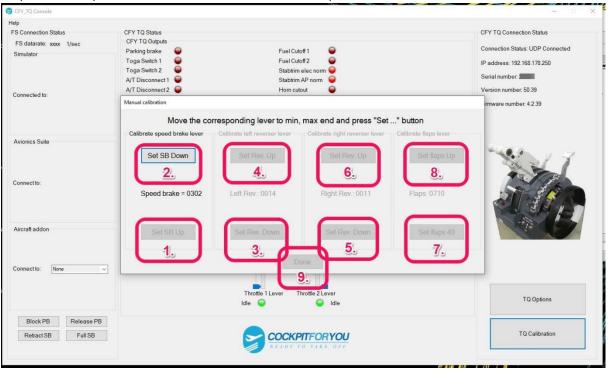
Name ^	Änderungsdatum	Тур	Größe
• 737_Trim.wav	12.12.2017 18:16	WAV-Datei	193 K
S CFY Icon.ico	27.06.2016 12:52	IrfanView ICO File	146 K
CEY Icon ing	27.06.2016 12:58	JPG-Datei	27 K
😂 CFY_TQ Console.exe	02.03.2021 10:14	Anwendung	1.750 K
	29.04.2018 10:45	XML Configuration File	1 k
CFY_TQ.log	20.03.2023 20:35	Textdokument	3 k
CFY_TQ_CONFIG.xml	20.03.2023 20:35	XML-Dokument	2 k
PoKeysDevice_DLL.dll	28.10.2016 13:10	Anwendungserweiter	177 k
😴 PoKeysUpdate.exe	19.10.2016 05:35	Anwendung	1.322 k
SharpDX.DirectInput.dll	30.05.2017 10:02	Anwendungserweiter	153 k
SharpDX.DirectSound.dll	30.05.2017 10:03	Anwendungserweiter	56 1
SharpDX.dll	30.05.2017 10:02	Anwendungserweiter	271
System.Net.Http.dll	28.05.2014 05:35	Anwendungserweiter	82 k



8. When you start the CFY Console for the first time, Calibration opens automatically. If this is not the case, click on the TQ Calibration button.

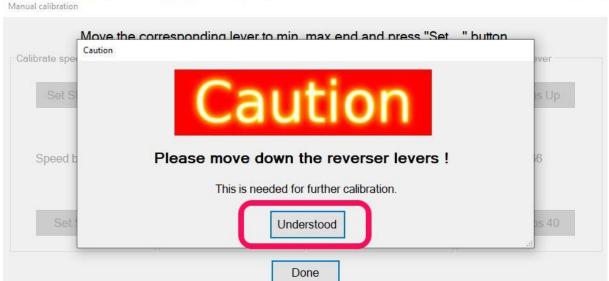


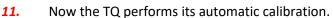
9. Now calibrate SpeedBrake, Rev 1, Rev 2 and Flaps in the order given. Bring the lever to the respective end position and click on the button. When you're done, click Done.

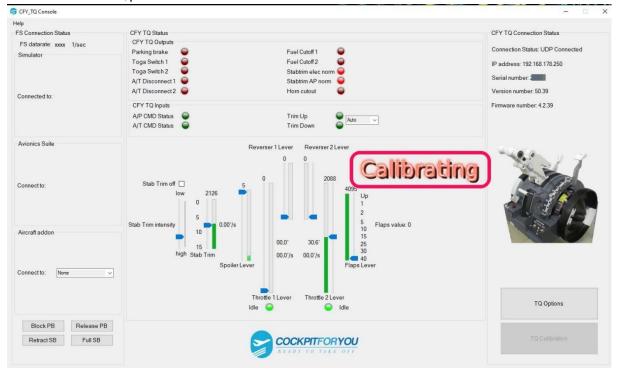




10. Now the automatic calibration of the trim wheels and the thrust levers 1 and 2 begins. Please confirm that REV 1 and 2 are in position Down and Press "Understood"









12. When the calibration is finished, the CFY Console will show Ready. Then click the TQ Options





13. Please switch from UDP Connection to TCP Connection and click the "Done" button The CFY Console must then be restarted for this setting to take effect.





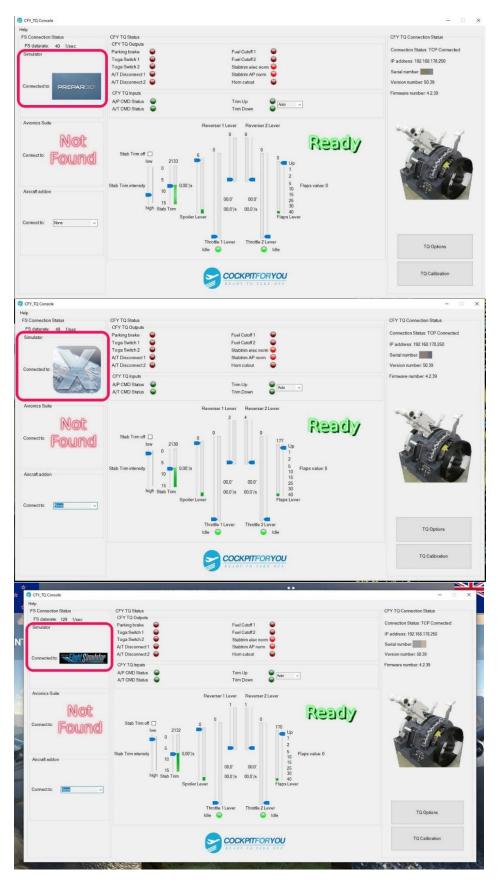
14. After restarting the CFY Console, TCP Connection is displayed.



15. Start your flight simulator, automatically recognized: FS2009, FSX all versions, P3D all versions, XPlane 10, 11, 12 and FS2020







The "TQ V3,V4,V5 " connects to your flight simulator

16. 18. The buttons on their yoks for trim up and down now need to be registered: Open FSUIPC or XPUIPC.



17.

For FS2009, FSX, P3D and FS2020

:Sign the Trim button on the Yoke // Open FSUIPC, select "Buttons + Switches"

JIPC Options and	Settings				
Key Presses About Lo) Igging	Axis Assignment	Joystick C Miscellaneous	alibration Hot Keys	Buttons & Switcher
	Pre	ess the joystick butto	n you wish to progra	m	Clear
F Select for key		PRESS		TTON	Select for FS control
Reload all b Press the key(s) t		Pro	file specific?	Control sent wi	Include Project Magenta
sent when you pr button	ess this	Set Cle		Consorver m	
Key press not	t to be held	I			Clear Parameter
Key press to	repeat whi	le held		rol to repeat wh	nile held hen button released
Press the key(s) t sent when you re this button	o be	Set Cle			Clear
Create Mouse	Macro	L			Parameter



- Press the Nose up trim switch on your yoke Check the "Select for FS control" box
- Select "Offset Word Set" from the list
- Set the first offset to **x9093** and the parameter to **2**

The Control sent when the button is released:

- Select "Offset Word Set" from the list
- Set the first offset to x9093 and the parameter to 0
- Press "OK" to save these changes



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Key Presses Axi About Logging	s Assignment Traffic Misce	Joystick Calibration Ilaneous Hot Key	Buttons & Switche
Set up or	review the action you w	ant for this button	Clear
Select for key press	Joy# 4	0 Btn#	Select for FS control
Reload all buttons	Profile spe	cific?	Include Project Magenta
Press the key(s) to be sent when you press this button	Set Clear	Offset Word Set	hen button pressed
🔲 Key press not to be held		Offse x9093	Parameter x0002
Key press to repeat while H	neld	Control to repeat w	hile held then button released
Press the key(s) to be sent when you release this button	Set Clear	Offset Word Set	Clear
Create Mouse Macro		Offset x9093	Paramet r x0000

18. For FS2009,FSX,P3D and FS2020:Sign the Trim button on the Yoke // Open FSUIPC, select "Buttons + Switches"

FSUIPC Options and Settings Xex Assignment	tin® PreparsD® v4	
Key Presses Ads Assignment Joyntok Calibration Ads Octor & GUSset About Logging Traffic Macellaneous Hat Kays Battors & Stetches Press the joyntok Latkon you with to program Cartol Cartol Cartol Cartol Reload Buctors Prefix specific? Include Program Cartol Cartol Cartol Reload Buctors Set Clear Control set when button pressed Cartol set when button released If Key press to ropost while held Press the key(s) to be set when button released Cartol set when button released Image: Cartol set when button released Press the key(s) to be set when you release Set Clear Parameter		
Abox Logging Traffic Hacestaneous Hat Kays Buttors & Stetches Press the joytick Lution you with to program Carton Carton Carton Carton Image: Set of key press PRESS BUTTON Setect for 5° control Carton Carton Reladed Buttons Profile specific? Include Profile specific? Include Profile specific? Control set when button pressed Set of key press Set Clear Control set when button released Image: Key press the lead Free the key bit be Control to record while held Image: Key press the background Set Clear Image: Key press the background Set Clear Image: Key press the background Set Clear Image: Key press to report while held Control to record while held Control to record while held Press the key bit be Set Clear Clear Image: Key press to report while held Set Clear Parameter	FSUIPC Options and Settings	×
Select for key press PRESS BUTTON Select for FS control Reload all budons Profile specific? Include Project Magenta Press the keyfelto be set of the provide set of the beld Control sent when button meased Cater Resonanter Control sent when button meased Clear		
Reload all buttors Profile specific? Include Project Magenta Press the key(s) to be set when you press the buttor	Press the joystick button you wish to program Clear	
sect when you press this J button Set Clear Cle		
Key press to repeat while held Press the key/b to be sent when you release this button	sent when you press this button Set Clear	
sert when you release Set Dear Cear	Key press to repeat while held Control to repeat while held Control sent when button released	
	sent when you release this button Set Clear Clear	





- Press the Nose down trim switch on your yoke Check the "Select for FS control" box
- Select "Offset Word Set" from the list
- Set the first offset to x9093 and the parameter to 1
 The Control sent when the button is released: Select "Offset Word Set" from the list Set the first offset to x9093 and the parameter to 0 Press "OK" to save these changes

Key Pres	ses	Axis Assignment		Joystick Calib	1	Auto Save /GPSout
About	Logging	Traffic	Miscel	laneous	Hot Keys	Buttons & Switches
	Set u	p or review the ac	tion you wa	ant for this butto	n	Clear
□ Selec	t for key press	Joy#	4	1 Btn#	(Select for FS control
Rela	ad all buttons		Profile spec	cific?	Inc	lude Project Magenta I
sent when button	key(s) to be n you press this ress not to be he ress to repeat wh		Clear	Offset Word		Clear ramet r x0001 eld
	key(s) to be n you release n	Set (Clear	Offset Wor	d Set	Clear rame er x0000
Create	Mouse Macro	-				



19.

For **FS2009, FSX, P3D and FS2020** :

The brake pedals must be registered and cabibrated in FSUIPC, since the logic for the parking brake is controlled by FSUIPC.

FSUIPC Options and Settings	FSUIPC Options and Settings ×
About Logging Traffic Miscellaneous Hot Keys Buttons & Switches Key Preses Joyatick Calibration AutoSave/GPSout AutoSave/GPSout Rescan Clear Joyatick Calibration AutoSave/GPSout This side to send axis values Profile specific? This side to send button controls Set minimum change here. Press Profile specific? This side to send button controls Set minimum change here. Press Delta In 16383 Image for action "Delta" again 256 Out 16383 Image for action Down Image for action Control sent when range entered Control sent when range entered Image for action Image for action Control sent when range entered Image for action Image for action Image for action Control sent when range entered Image for action Image for action Image for action Control to repeat whild in range Image for action Image for action Image for action Image for action Image for action Image for action Image for action Image for action Image for action Image for action Image for action	About Logging Traffic Miscellaneous Hot Keys Buttons & Switches Key Presses Joy# 2 Y Avis# Ignore Avis Chignores This ade to send axis values Profile specific? This ade to send button controls Set minum change here. Press Press From O Up "Delta" move axis alitie, press Deta In 16383 Im Too Up "Delta" move axis alitie, press Deta In 16383 Im Too Up Down Control sent when range entered Im Down Control sent when range entered Im Control sent when range entered Im Im Control sent when range entered Im Im Im Control sent when range exted Im Im
OK Abbrechen	OK Abbrechen

bout		gging	Traffic				Keus	5500070000000	& Switche
Key Pres	ses	1 1	Axis Assignmer	nt	Joystick Ca	ibration		AutoSave	e/GPSout
			2 of	11: Prop. I	mixture and brake	es	Þ	Pro spe	file cific?
_		Min	Centre	Max			Hint	Contro	Max
Prop pitch	1				Left brake	(direct!)		
Set					Reset		Set		Set
0	-	A	is not process	ed	-16383	Filter	-16383	No	16320
0	In		in the process		1-10303	In	10303	centre	10320
0	Out	🔲 Ma	p to 4 props		-16383	Out	Rev Rev		Slope
Mixture -					- Right brak	e (direc	t!)		
Set	1				Reset		Set		Set
	-					Filter		No	
0	In	As	is not process	ed	-16383	In	-16383	centre	16384
0	Out	∏ Ma	p to 4 Mixt		-16383	Out	Rev Rev		Slope
	Re	eload all se	ettings						



20.

	V
For	Λ

ane: Sign the Trim button on the Yoke // Open XPUIPC, select "Joystick Button

Assignments"		_		
File Flight View	Developer	Plugins		
f-act_f-simf 64.152_56.5230. /sec/sec	rame cpu 0156 0.0148 time time	Show Plugin Adm OCUSBMapper		
		XPUIPC	XPUIPC Version and Info	
		ZHSI Plugin	ATC Menu	
			XPUIPC+ > Joystick functions > Joystick Button Assignments	
			XPUIPC settings > Misc. runctions > Joystick Calibration Assignments	
	*	4	Joystick Axis Combining Assignme	nts



- Press the **Nose down** trim switch
- Offset to assig nto joystick button is: 9093 Value or bitt o send when pressed is: 2 Value or bitt o send when released is: 0 Offset size is: 1

×	Joystick Button -> Offset Assign	ments X
WARNING! This is experimental, use with caution. Bad data input may crash X-Plane. Maximum offset data size is 4. Clicking SET will save the button assignment.	Press a joystick button Offset to assign to joystic Button pressed is:4 9093 Visition or bit to send when 2 to send when 0 Set Bit Wi	s button Show => Sim-Avionics Presets pressed released en Pressed
For a list of available offsets please see XPUIPC documentation.	SET CIr Bit WH CLEAR Toggle Bit	
		ing When Pressed ing When Released





- Press the **Nose up** trim switch
- Offset to assig nto joystick button is: 9093
 Value or bitt o send when pressed is: 1
 Value or bitt o send when released is: 0
 Offset size is: 1

×	Joystick Button -> Offset Assignments	×
WARNING! This is experimental, use with caution. Bad data input may crash X-Plane. Maximum offset data size is 4. Clicking SET will save the button assignment. For a list of available offsets please see XPUIPC documentation.	Press a joystick button Offset to assign to joystick button Button pressed is5 9093 Show => Sim-Avionics Pres Sim-Avionics Pres Sime the send when pressed Set Bit When Pressed Set Bit When Released CLEAR CI Bit When Pressed Toggle Bit When Pressed Toggle Bit When Released	iets
	Send Nothing When Pressed	
	ÉXIT	



21. Start your AddOn software, our software will automatically detect ProSim737, Project Magenta and SimAvionics





22. For Addon

Setting in ProSim737 Config / Drivers Generic COM port/TCP diver => Enabled and then click the "Advanced" button

CPFlight boards/ICS MIP through MCP	Enabled Use only when the boards are connected to the MCP Advanced
CPFlight boards direct connection	[Not installed] Vise only when the boards are directly connected to the computer without an MCP
CPFlight V2	Enabled Advanced
Directinput support for joysticks	Enabled
EHID Server	Advanced
FDS hardware support	Enabled Advanced
Flight Illusion support	[Not installed] V Advanced
FSBUS support	[Not installed] V
FSC/Poldragonet TQ (Beta)	[Not installed] V Advanced
FSC Stickshaker	
FSUIPC support	Enabled
Generic COM port/TCP driver	Enabled Advanced
GoFlight hardware support	Enabled Advanced
CPFlight/Engravity ICS overhead panel supp	ovrt [Not installed] V Advanced
SIOC Direct	Advanced
IOCP Server	192.168.178.3 8095
Matrix Orbital display support	Enabled



switch to Operation mode: "Mixed"

eneric driver advanced settings	X
RS232 Communication	
Baudrate 115200 ~	Enabled Use only when the boards are connected to the MCP Advanced
Data bits 8 🗸	ot installed] Vise only when the boards are directly connected to the computer without an MCP
	Enabled Advanced
Parity None ~	Enabled
Stop bits One ~	Advanced
	Enabled Advanced
TCP Communication	
TCP Port 8091	ot installed]
	ot installed]
Operation mode Mixed ~	
Ok Cancel	at installed]
	bt installed]
Ok Cancel	at installed]
Ok Cancel	ot installed] Advanced Enabled
Ok Cancel Generic COM port/TCP driver	t installed]
Ok Cancel Generic COM port/TCP driver GoFlight hardware support	at installed] Advanced Enabled Enabled Enabled Advanced
Ok Cancel Generic COM port/TCP driver GoFlight hardware support CPFlight/Engravity ICS overhead panel support	at installed] Advanced Enabled Enabled Enabled Installed] Advanced Installed] Advanced
Ok Cancel Generic COM port/TCP driver GoFlight hardware support CPFlight/Engravity ICS overhead panel support SIOC Direct	at installed] Advanced Enabled Enabled Advanced Inabled Advanced Advanced

The trim switches on the yoke must NOT be registered in ProSim737.

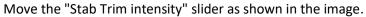
ean	st input ch	trim		Clear Open gro	ups
	Cir	cuit Breakers [0]			9.5.759
,	Flight Controls [13]				
	•	SWITCH[8]			
		Aileron trim Center	A	[Not connected]	
		Aileron trim Left	A	[Not connected] ~	
		Aileron trim Right	A	[Not connected]	
		Elevator trim CPT 1 Center	А	[Not connected]	
		Elevator trim CPT 1 Up	A	[Not connected]	
		Elevator trim CPT 1 Down	A	[Not connected]	
		Elevator trim CPT 2 Center	A	[Not connected]	
		Elevator trim CPT 2 Up	А	[Not connected] ~	
		Elevator trim CPT 2 Down	A	[Not connected]	
		Elevator trim F/O 1 Center	А	[Not connected] ~	
		Elevator trim F/O 1 Up	A	[Not connected]	
		Elevator trim F/O 1 Down	A	[Not connected]	
		Elevator trim F/O 2 Center	A	[Not connected]	
		Elevator trim F/O 2 Up	А	[Not connected]	
		Elevator trim F/O 2 Down	A	[Not connected]	

No switches and axes of the TQ have to be registered in ProSim.



In the CFY Console select the ProSim737 flight model.











23. For Addon

No settings need to be made for this addon.



24. For Addon

An FSUIPC connection is require, so the CFY controller software should either be run on the FS computer, or run on a remote computer with WideClient running.

Sim-Avionics Server Configuration

1) FSUIPC_IO.INI

Set Multi Function Offset

MULTI_FUNCTION=53FE

Remove 5418 offset from PARKING_BRAKE=5418

[FSUIPC_INPUTS] PARKING_BRAKE= ENGINE_L_FUEL_CONTROL_SWITCH=5452 ENGINE_R_FUEL_CONTROL_SWITCH=5453 Add Autothrottle output offsets

[FSUIPC_OUTPUTS]

COMMANDED_THROTTLE_L_POSITION=53E0

COMMANDED_THROTTLE_R_POSITION=53E2

THRUST_REF_MODE=53E4

2) <u>Control Panel Tab</u> Enable FSUIPC Outputs

3) Flight Controls 1 Tab

Parking Brake External	OFF
Flaps External	OFF
Gear External	ON
Elevator Trim via FSUIPC	OFF
Toe brakes release Parking Brake	OFF
Enable Simple Braking	OFF

4) Flight Controls 2 Tab

Main Throttles Reversers FDS Pro Throttle/Sys Controller Axis/SIOC SIOC / Offsets 52DA and 52DC

ON





CFY FS FSUIPC oftware ConfigConfigurationuration

1) FSUIPC > Axis Assignment

Add "Parking Brake" to Brake Axis

Detect Brake Axis

"Control sent when range entered" = Parking Brake

Up OFF Dn ON

From = 95% of brake pedal

To = 100% of brake pedal

2) FSUIPC > Buttons

Trim Up	Offset Word Set	x9093 1 Repeat ON
	Offset Word Set	x9093 0
Trim Down	Offset Word Set	x9093 2 Repeat ON
	Offset Word Set	x9093 0







- **25.** For flight model
 - 1) "IFly to FSUIPC" must be installed and started.
 - 2) Switch Aircraft addon: Connect to: iFly



3) Move the "Stab Trim intensity" slider as shown in the image.





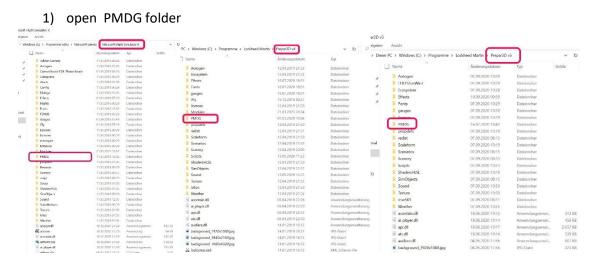
26.



For FS2020 you need the latest version FSUIPC7.

Current FSUIPC4 version! FSUIPC4 or FSUIPC5 or FSUIPC6 Current SimConnect version!

Configuring the PMDG ini open Windows Explorer



2) Open the PMDG 737 NGX or PMDG 737 NGXu folder.

er PC > Windows (C:) > Programme > Lockheed Martin > Prepar3D v5 > PMDG

Name	Änderungsdatum	Тур
DEM	10.08.2020 21:26	Dateion
📜 dlls	10.08.2020 21:26	Dateion
EFB	16.07.2020 18:42	Dateion
FLIGHTPLANS	16.07.2020 18:42	Dateion
I lcons	10.08.2020 21:26	Dateion
NavData	10.08.2020 21:26	Dateion
PMDG 737 NGX	16.07.2020 18:42	Dateion
PMDG 737 NGXu	10.09.2020 00:28	Dateion
SIDSTARS	10.08.2020 21:29	Dateion
📕 WX	10.08.2020 21:29	Dateion
PMDG_Interface.ini	21.03.2023 20:00	Konfigu
rainmaker_log.txt	10.09.2020 00:59	Textdok



3) Open the 737NGXu_Options.ini or 737NGX_Options.ini file

ndows (C:) > Programme > Lockheed Martin > Prepar3D v5 > PMDG > PMDG 737 NGXu

Name ^	Änderungsdatum	Тур
📕 Aircraft	10.08.2020 21:30	Dateic
📕 Flight Manuals	10.08.2020 21:26	Dateic
PanelState	15.08.2020 16:03	Dateic
SDK	10.08.2020 21:26	Dateic
737NGXu_ChangeList.txt	06.02.2020 00:40	Textdo
737NGXu_debug_log.txt	10.09.2020 00:59	Textdo
TOTNEY_LL_J_L_J_L	29.09.2020 14:56	BAK-[
737NGXu_Options.ini	10.09.2020 00:34	Konfig
	29.02.2020 23:30	Konfig
README_PMDG_737NGXu_Base.txt	23.05.2020 15:35	Textdo

4) If this text is not present in the ini file, insert this text.
 [SDK]
 EnableDataBroadcast=1

737NGXu_Options.ini - Editor

Datei Bearbeiten Format Ansicht Hilfe

SoundGroupValue.5=1.00 SoundGroupValue.6=1.00 [Aircraft Config] FixedConfig= [Panel State] StartupPanelState= [SDK] EnableDataBroadcast=1 [Hydraulics] Volume Sys.0=0.000000 Density Sys.0=0.000000 Temp Sys.0=500.000000 Volume Sys.1=0.000000 Density Sys.1=0.000000 Temp Sys.1=500.000000 SU Vol.0=0.000000 SU Vol.1=0.000000 SU Vol.2=0.000000 SU Vol.3=0.000000 SU Vol.4=0.000000 SU Vol.5=0.000000 SU Vol.6=0.000000

<

5) Save and close the file



6) Switch Aircraft addon: Connect to: PMDG 737NGX



7) Move the "Stab Trim intensity" slider as shown in the image.





"Sit back relax and enjoy your flight."

This is it. By now your 737 throttle quadrant should be up and running. In case you have any further questions or you are experiencing difficulties, please do not hesitate to contact us via email.

Torsten Müller

Berlin, Germany 2023

