

iFly 737MAX Software Development Kit

for MSFS and P3D

The SDK of iFly 737MAX provides third-party hardware/software users with the ability to communicate with the 737MAX instrument system. The SDK provides a demo project, which can be open by Visual Studio 2019.

SDK can be developed for P3D, MSFS2020 and MSFS2024 platforms with minimal modifications required. The SDK consists of three files, all of which are located in the SDK directory.

1、 How to read.

Refer to the OnBnClickedButton1 function in the demo project.

2、 How to write.

Refer to the OnBnClickedButton2 function in the demo project. It should be noted that the iFly737MAX_init_SendMessage function requires a parameter to set the current platform of 737MAX. If this parameter is blank, the SDK will assume that the current platform is P3D.

3、 Lvar variable.

We also provide additional Lvar variables. Note: These Lvars are read-only, and even if users write to them, the 737MAX will not respond to these new values.

Lvar name	description
iFly737MAX_Lvar_ENG1_BRM_VAL iFly737MAX_Lvar_ENG2_BRM_VAL	0: engine is not in Bowed Rotor Motoring mode 1: engine is in Bowed Rotor Motoring mode
iFly737MAX_Lvar_V1_VAL iFly737MAX_Lvar_VR_VAL iFly737MAX_Lvar_V2_VAL	Takeoff V1/VR/V2 speed <0: data unavailable
iFly737MAX_Lvar_TO_FLAP_VAL iFly737MAX_Lvar_LDG_FLAP_VAL	Takeoff/Landing Flap Set <0: data unavailable
iFly737MAX_Lvar_LDG_VREF_VAL	Landing Vref speed <0: data unavailable
iFly737MAX_Lvar_LDG_ALT_VAL	Landing Altitude -10000: data unavailable
iFly737MAX_Lvar_Transition_Altitude_VAL iFly737MAX_Lvar_Transition_Level_VAL	Transition Alt and Level -10000: data unavailable
iFly737MAX_Lvar_Cruise_Altitude_VAL	Landing Altitude -10000: data unavailable

iFly737MAX_Lvar_Fuel_Qty_L_VAL iFly737MAX_Lvar_Fuel_Qty_R_VAL iFly737MAX_Lvar_Fuel_Qty_C_VAL	Fuel quantity in kgs.
iFly737MAX_Lvar_Unit_Type_VAL	0: Kgs 1: Lbs