Yet Another Linda (YAL) for Zibo Mod Version 1.1

VIRTUAL COPILOT PLUGIN FOR ZIBO MOD 738

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Installation:

1. Copy main YAL folder into Xplane plugins folder
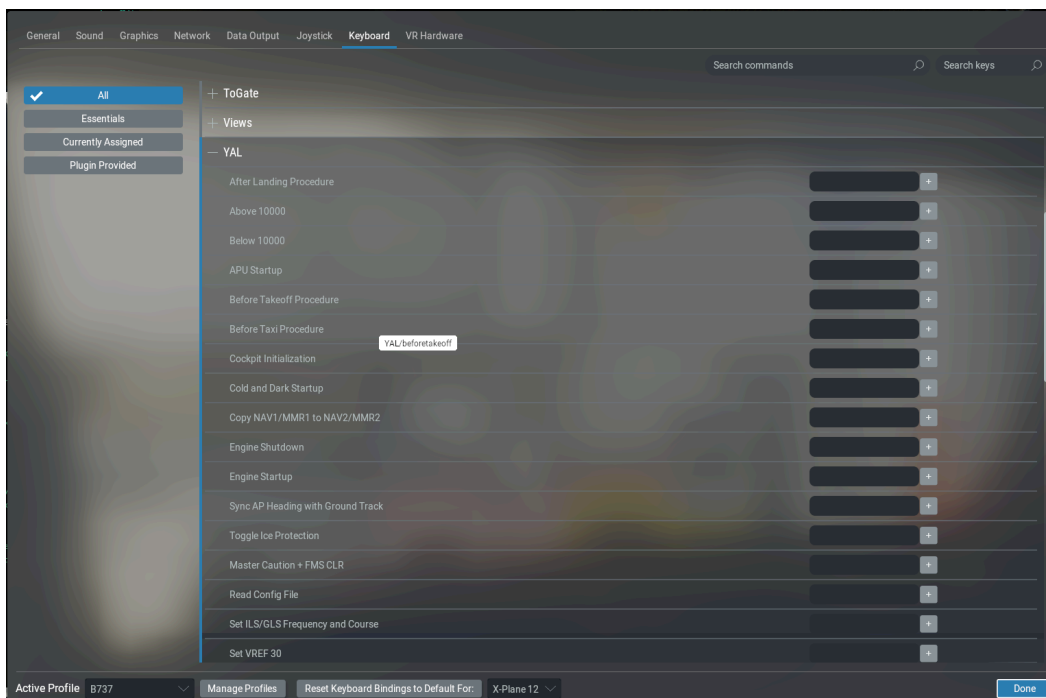2. Check YAL settings in settings YAL settings window

Requirements:

- XPlane 11 or 12 (Windows, Mac/Intel/Arm, Linux)
- Aircraft B737-800 by Zibo
- Optional : X-Camera plugin

Please Note:

- This plugin basically has no FPS impact, because functions are only executed every second, not every frame.
- While flying other aircrafts than the Zibo B738, YAL will stay idle and all YAL's menus and commands will be inactive

All custom commands created by this script can be found in YAL/…

Additionally most commands and all procedures are available
via the **Yet Another Linda** sub-menu available in the **Plugins** Menu.

YAL Functions:

CUSTOM COMMANDS (CAN BE ASSIGNED TO BE JOYSTICK/KEYBOARD BUTTONS)

1. Toggle Sim Freeze: Only freezes the physics, manipulation of controls, etc. still possible (in contrast to the pause function)
2. Master Caution + FMS CLR: Mastercaution + FMS Clear + Altitude Horn Cutout
3. Sync AP Heading with Ground Track: Syncs MCP Heading wih Groundtrack
4. Both Wipers Up: Both Wipers Up 1 Step
5. Both Wipers Down: Both Wipers Down 1 Step
6. Toggle Taxi Lights : Toggles all Taxi Lights On/Off
7. Toggle Collision Lights: Toggles Collision Lights On/Off
8. Toggle Landing Lights: Toggles Landing Lights On/Off
9. Toggle Logo Light: Toggles Logo Lights On/Off
10. Toggle Runway Lights: Toggles Runway Lights
11. Toggle Position Lights: Toggles Position Lights between Steady and Strobe
12. Toggle Transponder: Toggles Transponder between Standby and TA/RA
13. Toggle Both Flight Directors: Toggles Both Flightdirectors On/Off
14. Toggle Both Weather Radars: Toggles Both Weather Radars On/Off
15. Toggle Both Terrain Radars: Toggles Both Terrain Radars On/Off
16. Toggle Window Heat: Toggles all for Window Heat Switches On/Off

17. Toggle Probe Heat: Toggles Both Probe Heats On/Off
18. Toggle Ice Protection: Toggles Ice Protection for Wing and Engines On/Off
19. Copy Nav1/MMR1 to Nav2/MMR2: Copy Nav1/MMR1 course(, mode) and frequency to Nav2/MMR2
20. Toggle All Automatic functions of YAL On/Off
21. Toggle Voice Readback On/Off

PROCEDURES (AVAILABLE VIA COMMANDS AND MENU ITEM):

1. Cockpit Initialisation
   Performs several cockpit setup and initialisation tasks according to settings window entries and resets YAL (recommended between two flights without restart of XP).
2. Cold and Dark Startup (to Turnaround State)
3. APU Startup
   (automatically done during Cold and Dark Startup Procedure if not configured to use Ground Power/Ground Power not available)
4. Engine Startup (requires APU running)
5. Engine Shutdown
6. Shutdown (to Cold and Dark)
7. Tests

PLEASE NOTE:

For better immersion, during execution of procedures #2 - 7, view changes are performed to put view focus on the panel/switches currently used.
Therefore certain quick looks or X-Camera views must be defined (see below). The view changes can be generally switched of via settings menu.
The script automatically recognises X-Camera installations and then uses the X-Camera views instead of quick looks.

PROCEDURES (EXECUTED AUTOMATICALLY)

1. **Before Taxi Procedure (Triggered when Taxi Lights Set to On)**
   Seat Belt Sign On / Window Heat On / Probe Heat On / Both Starter CONT / Dome Light Off / Both FDs On / Logo Light On
2. **Before Takeoff Procedure** (Triggered on departure runway and heading < 20 degree departure runway heading and ground speed 0)
   Transponder TA/RA / Position Lights Strobe / Landing Lights On / Taxi Lights Off / Runway Turnoff Lights On / Autobrake RTO
3. **After Takeoff Procedure**
   Gear Up (200ft RA) / Gear Handle Off / Autobrake Off
4. **During Climb Procedure**
   Baro Standard above Transition Altitude (automatic baro configurable via ini file) / Verify that Before Takeoff Procedure has been executed /
5. **Flaps Up Handling according to FMC speeds**
6. **Above 10000 Feet Procedure** (get(altitude) configurable via ini file)
   Landing Lights Off / Logo Light Off / Seatbelt Sign Off / Both Starters Auto
7. **During Descent Procedure**
   Set Speed Restriction 250 below 10000 feet (altitude configurable via ini file) / Set Baro to Local QNH (configurable via ini file) / Flaps Down Handling according to FMC speeds

8. **Below 10.000 feet Procedure** (Altitude configurable via ini file)
   Seatbelt Sign On / Landings Lights On / Logo Light On / Autobrake 1 /
   If ILS/GLS approach set Nav1/MMR1 to ILS/GLS course and frequency /
   If ILS/DME approach set both Nav1/MMR1 and Nav1/MMR2 to ILS course and
   frequency /
   Set VRef30
9. **Below 2.500 feet (RA) Procedure**
   Both Starters Cont / Gear Down (only if flaps >=15 already set)
10. **Below 1.000 feet (RA) Procedure**
    Taxilights On / Runway Turnoff Lights On / Set Missed Approach Altitude/ Speedbrake
    Auto / Set MCP Heading Destination Runway Heading / Gear Down / Configure flaps
    for landing (flaps 30 or 40, depending on APP settings)
11. **After Landing Procedure** (Triggered after leaving destination runway and heading >
    20 degree arrival runway heading or get(groundspeed) zero)
    Transponder Standby / Position Lights Standby / Weather & Terrain Radar Off /
    Landing Lights Off / Runway Turnoff Lights Off / Both Starter Auto / Both FDs Off /
    Speedbrake Down / Flaps Up / Autobrake off Window and Probe Heat Off
12. **At Parking Position Procedure** (triggered when Parking Brake is Set)
    Taxi Lights Off / Logo Light Off / Dome Light Dim / Seatbelt Sign / Off

AUTOMATIC FUNCTIONS (CONFIGURABLE VIA SETTINGS)

1. While On Ground and Taxilights Off:
   Set Trim according to calculated FMC Trim / Set Baro to Local QNH / Set MCP Speed
   to V2 / Set MCP Heading to Departure Runway Heading
2. Automatic On/Off for Center Fuel Tank Pumps
3. Set Cabin Cruise Altitude to FMC Cruise Altitude
4. Set Cabin Landing Altitude to Destination Runway Altitude (rounded)
5. Automatically set Pilot Barometer to standard above transition altitude and to local
   QNH below transition level
6. Wing and Engine Anti Ice On/Off in case of ice detection below 30.000 feet and TAT <
   10.
7. Automatic Wiper Function depending on Rain Intensity below 250 knots

Voice Readback of basically all commands executed automatically or manually
(configurable via settings)

VOICE CALLOUTS, E.G.

1. Passing 10.000 feet (depending on Lower Airspace Altitude set)
2. Start of Descent
3. Below 10.000 feet (depending on Lower Airspace Altitude set)

 The Settings window can be opened via the menu **Plugins/*Yet Another Linda/Settings***.

```
                    Yet Another Linda v1.1 - Settings                    x

General                                    Instrument Panel Brightness
        ⊠ Use Ground Power when available instead APU   [-] 0.5 [+]  Main Panel
        ⊠ Command Voice Readback                        [-] 0.5 [+]  Overhead Panel
        ⊠ Automatic Functions                           [-] 0.5 [+]  Pedestal Panel
     9999  Sim exit after Pause at TOD (0-9999 sec)     [-] 0.5 [+]  Background
        ⊠ Override Wake Effects                          [-] 0.5 [+]  AFDS Flodd
        ⊠ Automatic Anti Icing                          [-] 0.5 [+]  Pedestal Flood
        ⊠ Automatic Wipers                              [-] 0.5 [+]  Outbound Display Unit
        ⊠ Automatic Center Tank Handlng                 [-] 0.5 [+]  Inner Display Unit
        ⊠ Automatic Baro Settings                       [-] 0.5 [+]  Upper Display Unit
        ⊠ View Changes during Procedures                [-] 0.5 [+]  Lower Display Unit
                                                        [-] 0.5 [+]  Inner Display Unit2
Customising
        ⊠ Set Speed Restriction 250
        ⊠ Set Vref 30                                   ☐ Ignore All Brightness Settings
    10000  Lower Airspace Altitude (feet)
                                                       Misc
  [-] 4 [+]  Maximum Bank Angle (1-4)                    ☐ Debug mode log
        ⊠ Set Lower Display Unit
     3210  Default Transponder Code

Views
     1    Main Panel View
     3    Pedestal Panel View
     4    Overhead Panel View
     5    FMS View
     7    Throttle View
     10   Upper Overhead Panel View
```

General
- **Use Ground Power when available instead of APU**
  During Cold & Dark Startup and Engine Shutdown Procedure Ground Power will be used, if available. APU startup has to be done separately before Engine Startup.
- **Command Voice Readback**
  Command Voice Readback for almost all actions performed (procedures, commands, switches, actions)
- **Automatic Functions**
  Turn Automatic Functions On/Off (see above for details)
- **Sim exit after Pause at TOD**
  Time in seconds after which XPlane will exit automatically after pausing at TOD. This presumes, that you have automatic save activated. It makes no sense to have the sim potentially running for hours in case of unforeseen real world events.

- **Override Wake Effects** (only with Plane 12)
  Suppresses the wake effects from other aircrafts
- **Automatic Anti Icing**
  Automatic Wing / Engine Anti Ice in case of ice detection. Works only below 30.000 feet and TAT < 10.
- **Automatic Wiper**
  Automatically Turns both wipers on/and off according to rain intensity (only available, APU or ground power connected or Engines running). Only available below 250 knots.
- **Automatic Center Tank Handling**
  Automatically Handles Center Tank Fuel Pump Switch. Switches will be automatically turned on, if center tank fuel quantity is above 1.000 lbs / 500 kg. Switches will be automatically turned off, if center tank fuel quantity is below 1.000 lbs / 500 kg. Turning off below 1.000 lbs / 500 kg can be manually overridden until fuel pressure becomes low.
- **Automatic Baro Settings**
  Pilot Barometer is set automatically to standard above transition altitude and to local QNH below transition level
- **View Changes during Procedures**
  View changes to be executed during procedures for better immersion. This continuously sets focus to the panel currently being used in the resection procedure. Requires that quick views for the respective procedures are defined.

Customising
- **Set Speed Restriction 250**
  Sets the speed below Lower Airspace Altitude to 250 (instead of 240 which is Zibo Mod default).
- **Set Vref 30**
  Automatically set Approach Reference to Vref 30
- **Lower Airspace Altitude (feet)**
  Lower Airspace Altitude to be used e.g. 10000 or 18000 feet (if this entry is undefined, then 10000 feet is taken as default)
- **Bank Angle Maximum**
  Maximum Bank Angle set during Cockpit Initialisation Procedure (Min = 1, Max = 4)
- **Lower Display Unit**
  Set Lower Display Unit during Cockpit Initialisation Procedure
- **Default Transponder Code**
  Default Transponder Code to be set during Cockpit Initialisation Procedure

Views
- Quick views for the respective panels, which are used in procedures. Only relevant, if setting View Changes during Procedures is active.
- YAL use the Quick Look natively defined in XPlane or views configured by the plugin X-Camera (if installed).

Instrument Panel Brightness
- Instrument Panel Brightness
  Individual settings for each of the individual instrument and cockpit lights.
  These individual settings are ignored, if **Ignore All Brightness Settings** is selected. In this case no changes will be done.

VERSION HISTORY
- 1.1 Initial version
- 1.2 Minor Release - Bug Fixits, Small Enhancements
- 1.3 Minor Release - Bug Fixits, Small Enhancements
- 1.4 Minor Relase - Add Toggle Freeze Command