

DCSW: JTAC & AWACS for KA-50



Version 1.3

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Intro

Thanks for showing interest in my mod. In this document you will find an overview of the changes and there is a small step by step guide for the systems that are required to interact with the JTAC.

With this mod:

- You can use the JTAC (almost) in the same way as you can do in the A10
- You can communicate with the AWACS
- You maintain multiplayer compatibility. People will wonder why you can talk with the JTAC
- JTAC will use L/L coordinates, which you can easily enter in your PVI unlike the MGRS format

Mod created by TurboHog (named Frett when flying online). Thank you KosPilot from the forums for the inspiration. Special thanks to Kegetys for making L/L work. Thanks to Ebs for the kneeboard.

Overview

There will be two new radio menu items when you open the radio menu with the SPU-9 PTT button. The JTACs on position 6 and AWACes on position 7. If you are on their frequency, you can communicate with them in the same manner as in the A10C.

```
PLAYER: Axeman 1-1, this is Enfield 1-1, 1 x Ka-50  
GG1907 at 2400  
Armed with: Vikhr, 250 x gun  
Play time is 0 + 30  
Available for tasking, What do you have for us?
```

```
R-828  
Main  
F1. Flight...  
F2. Wingman 2...  
F3. Wingman 3...  
F4. Wingman 4...  
F5. ATCs...  
F6. JTACs...  
F7. AWACses...  
F8. Ground Crew...  
  
F10. Other...  
  
F12. Exit
```

Installation

- JSGME

Just place the folder 'KA-50 JTAC&AWACS' in your JSGME mod folder and enable it.

- Manual installation

- 1) Make backups of the files that will be overwritten...
 \DCS World\Mods\aircrafts\Ka-50\Cockpit\Scripts\R-828\R-828.lua
 \DCS World\Mods\aircrafts\Ka-50\comm.lua
 \DCS World\Sounds\Speech\NATO.lua
 \DCS World\Bazar\TempTextures\pilot_KA50_notepad
- 2) Overwrite original files with the modded file by copying the Bazar, Mods and Sounds folder into your DCS World folder.

Using the R-828 radio

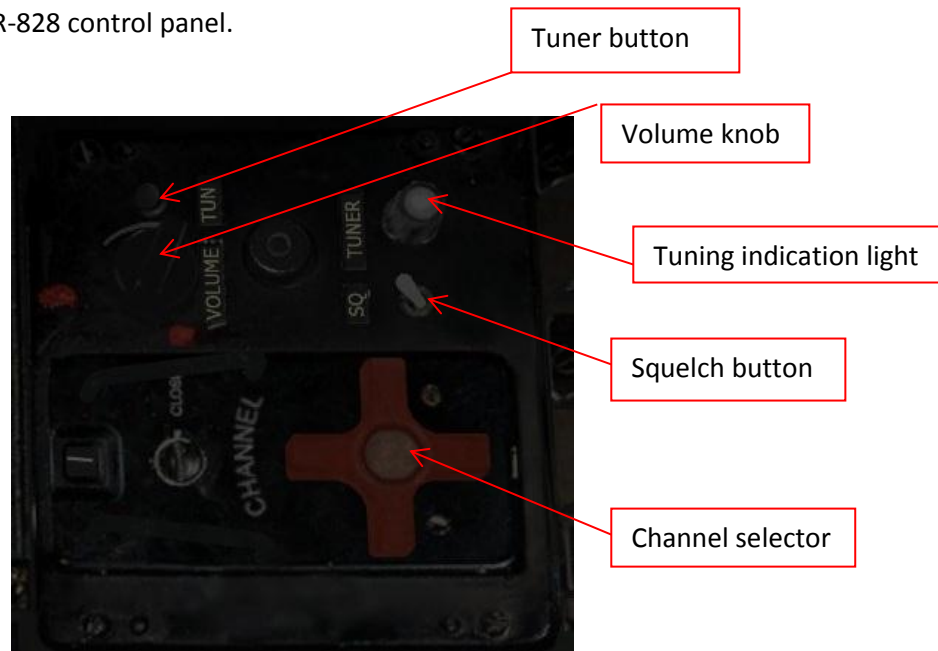
The R-828 radio is probably an instrument that you don't look at very often, especially since radio Mayak disappeared from the scene. This radio operates between 20MHz and 60MHz and is used for communication with units on the ground. The radio will be used to communicate with a NATO JTAC or AFAC.

First you will have to select the VHF-1 radio. Make sure that the radio master switch is in the on position (right wall panel). In the picture below the radio is set to VHF-1.



SPU-9 radio selector
set to VHF-1

Go over to the R-828 control panel.



Using the Channel selector, choose the desired channel. For example: channel 3. Once you have selected this channel (the '3' appears above the channel selector) hold down the tuner button to tune the radio. The Tuning indication light will light up during the tuning process and will turn off once the radio is tuned. After the tuning light is out you are ready to use the R-828 radio.

R-828 frequencies and setup

Channel	Frequency (VHF FM)
1	30.000
2	31.000
3	32.000
4	33.000
5	34.000
6	40.000
7	41.000
8	42.000
9	43.000
10	44.000

```
1  | squelch = true
2  | volume  = 0.5
3  | channel = 0
4
5  | r_828_channel = {}
6  | r_828_channel[0] = 30000000.0
7  | r_828_channel[1] = 31000000.0
8  | r_828_channel[2] = 32000000.0
9  | r_828_channel[3] = 33000000.0
10 | r_828_channel[4] = 34000000.0
11 | r_828_channel[5] = 40000000.0
12 | r_828_channel[6] = 41000000.0
13 | r_828_channel[7] = 42000000.0
14 | r_828_channel[8] = 43000000.0
15 | r_828_channel[9] = 44000000.0
```

These frequencies were chosen because they are the most frequently used frequencies by mission designers. You can edit these channels by finding R_828.lua in \DCS World\Mods\aircrafts\Ka-50\Cockpit\Scripts\R-828.

Entering L/L coordinates in the PVI-800

Upon receiving coordinates in L/L format, you will have to align your navigation and weapon systems. There are two ways to do this: Using the ABRIS or using the PVI-800. It is recommended to use the PVI-800 because it is linked to the autopilot and you will be able to make use of auto-ingress functions. PLEASE NOTE: JTAC gives L/L without a '0' in the east coordinate. So **N41'00.000 E41'00.000** should be entered as **N41'00.000 E041'00.000**!

You can make waypoint's, INU fix points, airport/base points and target points. The latter is the most useful in this situation. A target point will also appear on the ABRIS as a blinking 'other' type datalink and is automatically in the ingress mode. So engaging route mode will guide you to the target point and turning on the shkval will align the shkval FOV with the target area. Notice however that the PVI-800 navigation database does not contain elevation data. If the target elevation differs a lot from 0ft MSL, it is advised to use the ABRIS to find elevation data for the specified TGT point.

Step-by-step target point creation

- 1) Turn the PVI-800 into the edit mode to allow editing of navigation data. Select 'Nav TGT' and the number of the desired TGT point that you are about to create.



- 2) Before you enter a coordinate, you will have to determine either positive or negative by pressing '1' (a '-' sign will appear in front of the upper display) or by pressing '0' prior to entering the actual coordinate. All coordinates in this region are positive, so you begin by pressing '0' and then continue to enter the rest of the North coordinate. It will appear in the upper display as you can see in the picture below.



- 3) Press '0' again to enter positive east coordinates and continue by entering the East coordinate. After the line is full, the enter button will light up, indicating that what you've just entered is recognized and complete.



- 4) Hit enter and go back to normal operation mode and select your new TGT point. It is automatically in the ingress mode.

Current problems and limitations

- Pilot only reads amount of HEI rounds
- (Buddy)lasing is not possible.
- JTAC is only available to NATO countries
- Confirming a contact only works when target is in TGP, not in shkval

Word of thanks

I want to thank all those that gave me feedback about the mod. Also thank to everyone who has downloaded and used my mod. Having a mod with 500+ downloads combined made me feel happy!

Special Thanks to Kegetys for his expertise. Without him there would be no L/L DMS coordinates.

Special Thanks to Ebs for making the kneeboard mod.

Special Thanks to Puddlemonkey for his 'and' sound.

Happy flying!