

EFA Typhoon II (naval version) - Eurofighter Typhoon

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— — — HOW TO — — —

use the various Upper Left Panel (ULP) and Manual Data Entry Facility (MDEF) buttons

MDEF



- shows the selected item (from the ULP) - here the altitude
- shows the current value - here 4000 feet
- use the keyboard to select the new value
- hit ENT (enter) to validate the entry
- hit CLR (clear) to erase it and retype if needed

ULP



AUTOPILOT buttons : those in diagonal on the left and the upper row

AP : cancel all AP functions

AT : auto thrust - maintain the speed in kts

Alt key + AT : maintain the speed in mach

HDG : hold Heading

TRK : track hold (when used with AIDS/TACAN mode, VOR mode, Nav mode)

or True heading hold (when used with AIDS / Alt + Nav mode)

Alt key + TRK : Roll hold

ALT : altitude hold

Alt key + ALT : Pitch hold

TFR : terrain following, holds AGL altitude (caution in mountains...)

CLM, ATK, APP : (top row) work in progress ...

-----> Each entry now calls a submenu on the ULP panel <-----

MIDS : Radio



HOME : display the radio frequencies in use

swap between active and standby freq when Manual 1 (MAN1) or MAN2 freq are selected.

COMM : Radio 1 and 2 - up and down buttons to change freq

ATK : work in progress

IFF : transponder info page

There are also two radio controls and displays with rotating knobs : top is volume, bottom is channel selection

Route Manager

Departure: EGDD Llandbeih

Arrival:

Cruise Speed (kts): 180

Cruise Altitude (ft): 10000

Target: 000 EGDD-23 (23)

Dist: 0.00 nm

ETA: 000 EGDD-23 (23)

Waypoint:

Clear List Remove Route Jump To Activate Load Save Close

When the route is loaded (or written) then activated, you can see it on any MFD, NAV DISP page
If you hit NAV MODE (AIDS menu), then TRK the autopilot follows the nav route



AIDS : main panel for navigation (see picture)



CURR HDG : set the nav bug and autopilot to the current heading
CURR ALT : feeds the current altitude to the autopilot
CURR SPD : feeds the current speed to the autopilot
HDG BUG : calls the nav bug
BUG OFF : hides the nav bug (on the Head Up Display)
TACAN PWR : switches tacan on / off

BINGO SET : set the desired bingo fuel
(audio warning + red warning btn + Hud indication when reaching)

The VOR(1 and 2) and TACAN modes work with the Autopilot TRK button

VOR1 MODE : set the nav bug to the VOR1 freq (in range), show the VOR id on the HUD,

set the AP to intercept the VOR1 radial entered on the CDI 1
The CDI 1 is seen on the left MFD (NAV page), hit NAV SRC to get the blue CDI

Alt key + VOR1 MODE : Direct course to the selected VOR

VOR2 MODE : same procedure with CDI 2 (the yellow one on the left MFD)

NAV MODE : follow and show (HUD) the route loaded in the route manager
you can also see the route on the MFDs, NAV DISP page
Alt + NAV MODE : follow the true heading selected

TACAN MODE : sets the nav bug to the selected TACAN, sets the AP to a direct course to the selected tacan

The **TACAN**, **VOR1** or **2** and **NAV** modes work with the autopilot **TRK** button

NIS : not used at this time INT : work in progress

XPDR : transponder



Switch MODES 1, 2, 3A and C as required - IFF codes select and set

INST SET



enter the desired TACAN, VOR, ADF and Manual RADIO frequencies with the MDEF

here above is an example of the TACAN freq change (current is 101 X)

Caution :

With the MDEF :

to enter a TACAN frequency, you need to enter 3 digits before the X or Y
(for example : nimitz tacan 29Y enter 0 2 9 Y)

XMIT : not used at this time

RAD1 (and RAD2)



select the desired freq from the pre-entered list
 The list is found on the left MFD, FREQ button
 the list on the left MFD updates the manual freq you enter in the MDEF

DAS : not used at this time

NAV SET



enter the different instrument infos with the MDEF

- ALT : set the desired altitude (works with AP: ALT)
- AGL : set the desired AGL altitude (works with TFR)
- VSI : work in progress
- HUD TEST : shows all entries in the HUD
- MAG HDG : magnetic heading set
- TRUE HDG : true heading set
- CDI 1 : set the desired course to the next VOR1 selected
- CDI 2 : same for the VOR2 (yellow CDI)
- CDI TAC : same for the TACAN (white CDI)
- SPD KTS : desired speed in kts
- SPD MACH : desired speed in mach

***** MFDs *****



LEFT MFD :

NAV button : show the nav system (tacan, vor, adf)

NAV SRC : cycle between TACAN, CDI1 and CDI2 needles

NAV 1 : cycle between VOR1, ADF1 and off (blue needle)

NAV 2 : cycle between VOR2, ADF2 and off (yellow needle)

NAV 3 : cycle between TACAN and off

You need to have NAV1 selected to VOR1 to see the actual range - same

for NAV2

RIGHT MFD :

STOR button : show external fuel tanks and/or weapons
(updated when you fire/drop weapons or fuel tank)

ARM Sel + or ARM Sel - : select the weapon to release (red rectangle on the active weapon)

A/A : set HUD to air to air mode

A/G : set HUD to air to ground mode

Gun : set HUD to Gun mode

RADAR show targets within range (selected R+ or R- to increase/decrease range)

if you want to track a target, hit the MODE btn to TWS.A :

- a black diamond will appear on the HUD with the various target infos

NAV DISP : nav data display, showing the route planned on the "Route Manager"

TCAS functioning

R+ and R- buttons change the radar distance

CENTER MFD :

SIT button: situation awareness

MAP : Moving Map

TRK button switches between North reference and actual heading

The right knob allows you to change the map lighting

Each MFD has 2 rotating knobs, used according to the page loaded :

EADI : left knob adjust the target speed

right knob adjust the target altitude

NAV : (left MFD)

left knob adjust the target heading

right knob adjust the Tacan selected radial

NAV HSI : left knob adjust the target heading

SIT / MAP : right knob adjust the map brightness

HUD :

weapons : when hitting "w" key, you cycle between Guns, A/A: and A/G:

Guns : to fire the cannon, shows the remaining bullets

A/A: to fire Air to Air missiles only

shows the Air to Air missiles only, even if you have Air to Ground weapons

A/G: to fire Air to Ground weapons only

shows the Air to Ground weapons only, even if you have Air to Air missiles

CENTER PANEL (behind the stick)



DRF (Disorientation Recovery Facility) button
to take you safely away from ground if hypoxia

GND, T/O, A/A, NAV, LDG : the different POF (phase of flight) buttons
select them as required

NVE, FLIR : night vision and FLIR vision buttons, function with ALS
BRT and CONT to adjust brightness and contrast as you see fit

Enjoy your flights with the Typhoon !!!
Any queries/remarks : FGUK forum

A big Thank You to Algernon (Algy) (and his team) for letting me develop this version of the EFA !