

Gunny's F4AF CH Profile 5.0

Warning, this profile requires the enclosed Falcon 4 keymap (Gunny KB2.key) to be used. This enables the keyboard keypad to function as the ICP and also allows HOTAS control of the TrackIR and Comms via TS or Ventrilo. Also, you may add and remove CH devices within the CH Control Manager to suit your current setup and still retain functionality of this profile.

A few words about this profile. Hopefully this will help you decide if this profile is for you or not. As you know there are many talented and wonderful profiles in existence for our sim and I highly encourage you to check them all out before settling on one.

This profile is **NOT** the most realistic profile in existence if that's what you're looking for. I've been down that road before and found that while we do strive to make our simulator experience as real as possible it is just not practical/expedient to leave things off of our very capable CH HOTAS just for the sake of reality. So, while I **have** placed the real life functions in the approximate places where they would be on the real F-16 HOTAS, I have been fairly liberal in the use of shifted commands and the expanded programming capabilities within our CH software to maximize our CH HOTAS.

You will find this profile has a learning curve. You will grow into it however, not out of it as your understanding of the jets systems increases.

First, being a flight engineer for most of my adult life, I've tried very hard to address safety of flight issues with the stick/binding layout. For example, "pickle" and "eject" will not be located on the same button.

Shifted or otherwise, many functions must be separated for obvious reasons.

On the flip side, many functions coexist well and make system management much easier.

As for the in-game HOTAS commands, many tax dollars and engineering hours went into the creation of mode-dependant real life HOTAS commands. They are very useful and almost fully modeled in Falcon 4.0 AF. That said, their names and functions must be studied beforehand to use effectively. I'll give reference page numbers for the F4AF manual, but will not go into detail in this document. So, if you are new to Falcon and/or do not know what TMS, or its functions are, for example, please refer to the below reference map and to pages 307-315 in your manual. These are **not** implemented for reality's sake necessarily, but rather because they are incredibly useful in the implementation of your jet as an effective weapon and your full enjoyment of the sim.

Also, the view commands are placed on the throttle hat (hat1). I know this is a little unorthodox, but it's actually very intuitive and helps spread the workload a little. Your right hand/fingers can get busy right quick and in a hurry when the shooting starts. Being able to have one hand on the mouse while the other controls the view is fast and easy when having to manage the office quickly. Also, with the inclusion of the TrackIR, I've found through many hours of flight that having the ability to change between 2d, 3d, and HUD on the stick POV hat far more useful.

This profile also has many Tap/Press binds implemented. Reference the layout and where you see a description like this: **Padlock / Declare**, it represents a Tap / Press command. Tap the button (actuate and release quickly), and it will perform **Padlock**. If you press it for a mere split second longer, it will execute the press command and **Declare** and **NOT** issue the **Padlock** command.

The other type of commands used are shifted commands. I'm a fan of shifted commands as they force the pilot to take an additional step to access non-primary flight commands. This keeps the primary-type commands on the first layer for excited combat management and allows a safety-of-flight consideration to be built into the map for emergency or not so-essential commands.

Also, Throttle hat 2 is set up to manage master/sub modes. To get back to NAV mode just press the associated master mode button a second time. First press will select A/G submode for example, a second press will return you to NAV mode.

The Speed Brake Temporary command probably deserves a little explanation here. The speed brakes will deploy as long as this is held and retract when released. I've found this type of command, while not realistic to the F-16, to be incredibly useful. Try it!

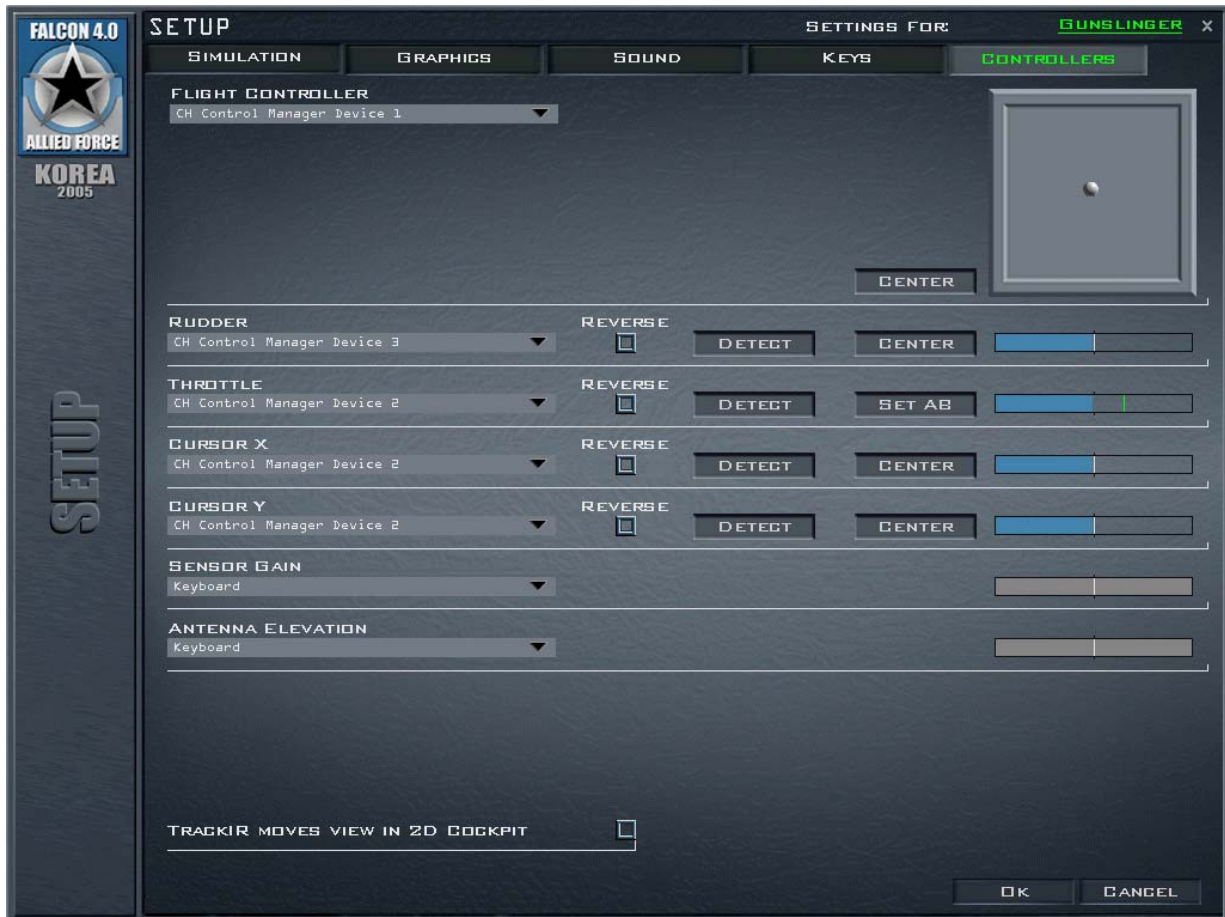
In addition, the ICP controls have been implemented on the keypad. For those with the G15 this is wonderful as 1.06 introduced a DED display right on the keyboard. Some functions had to be moved to accomplish this, so please review the new KB layout included in this zip.

Caution

The CH Map will not work correctly if this step is skipped.

Paste the "Gunny KB2.key" file in the C:\Program Files\Lead Pursuit\Battlefield Operations\config folder, **and then load it from within the Falcon setup screen.**

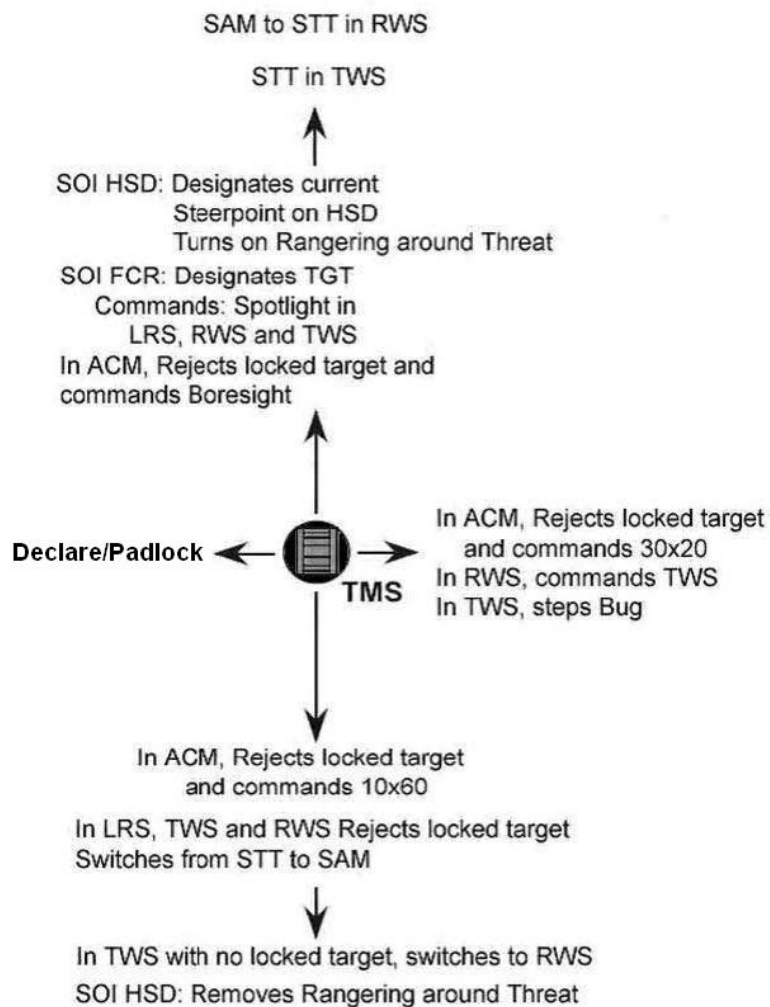
A few in game binds are also necessary for this profile to work correctly. Reference the below graphic.



Your mode dependant TMS at a glance.

Target Management Switch (TMS)

The TMS is a 4-Way toggle switch and is primarily used on conjunction with the Radar. As the name already suggests, the pilot has quick access to functions related to targets. It is designed to allow quick selection and rejection of targets as they appear.



Acknowledgement

Many thanks to Iain "Ziggy" Kirkpatrick for the good times and technical script help.

Also, thanks to Ken "Ghost" King for his hours spent in creating the original CMC file to benefit all in the Falcon AF community.

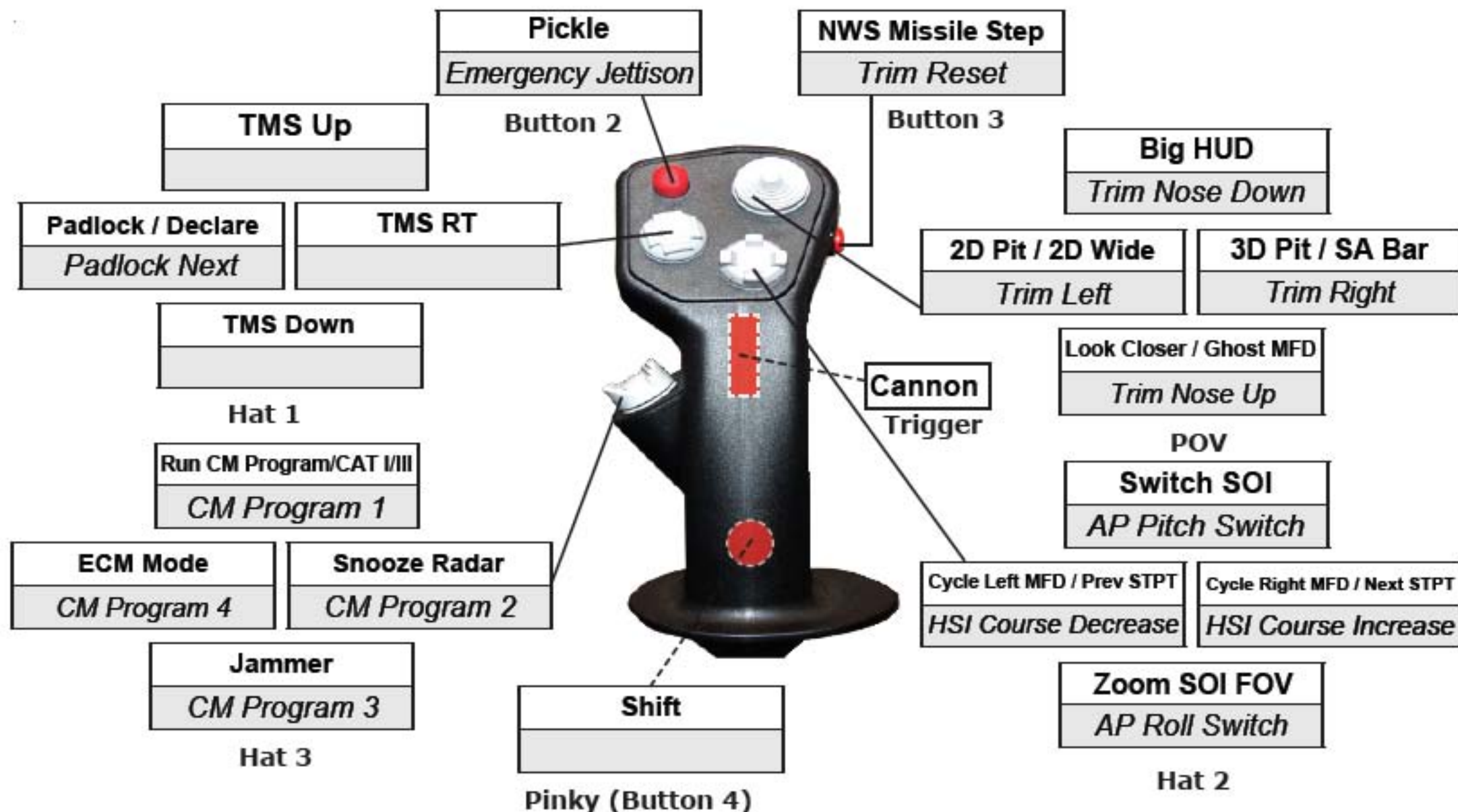
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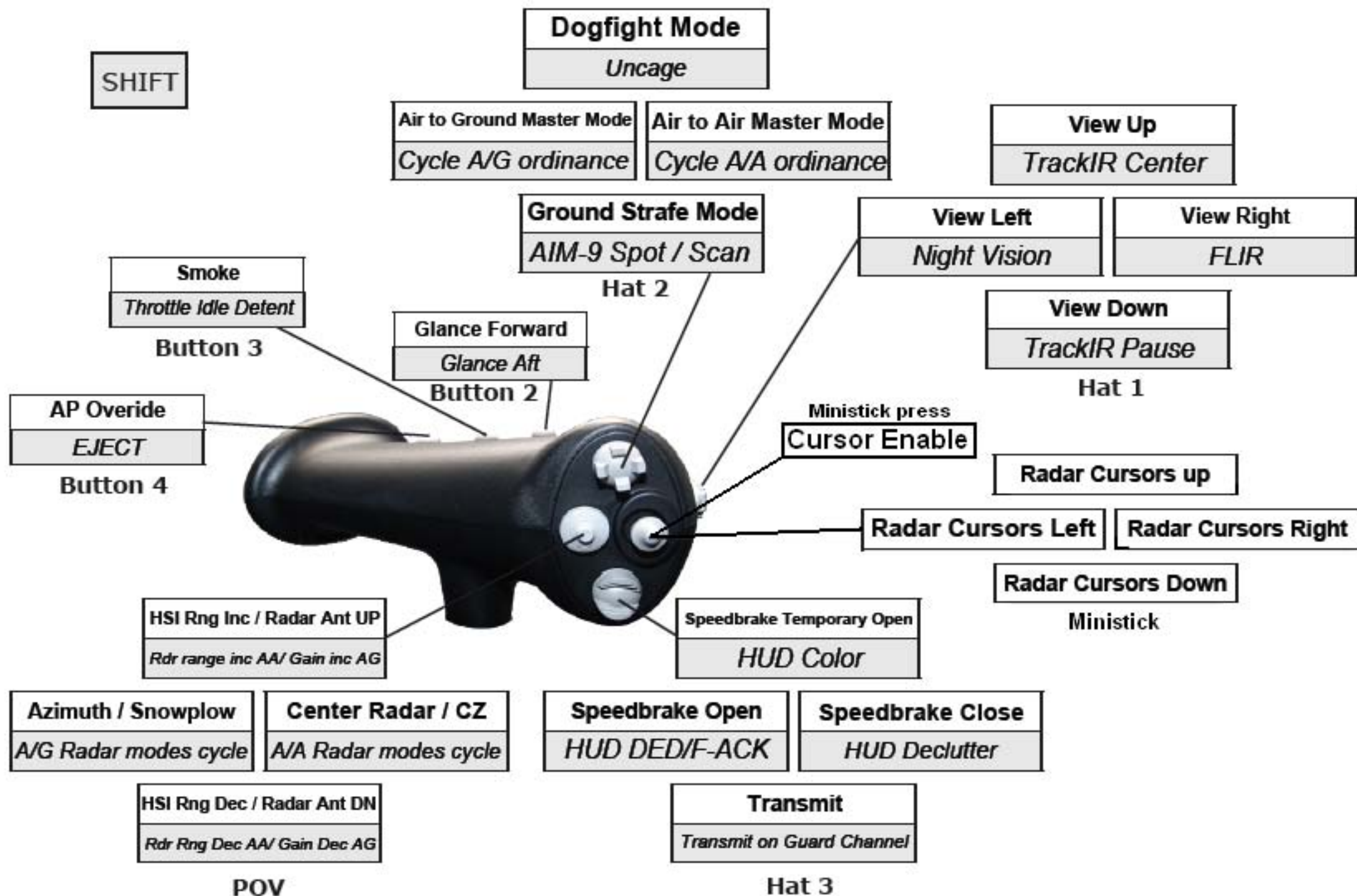
72nd Virtual Fighter Wing
<http://www.72ndvfw.org>

Addendum:

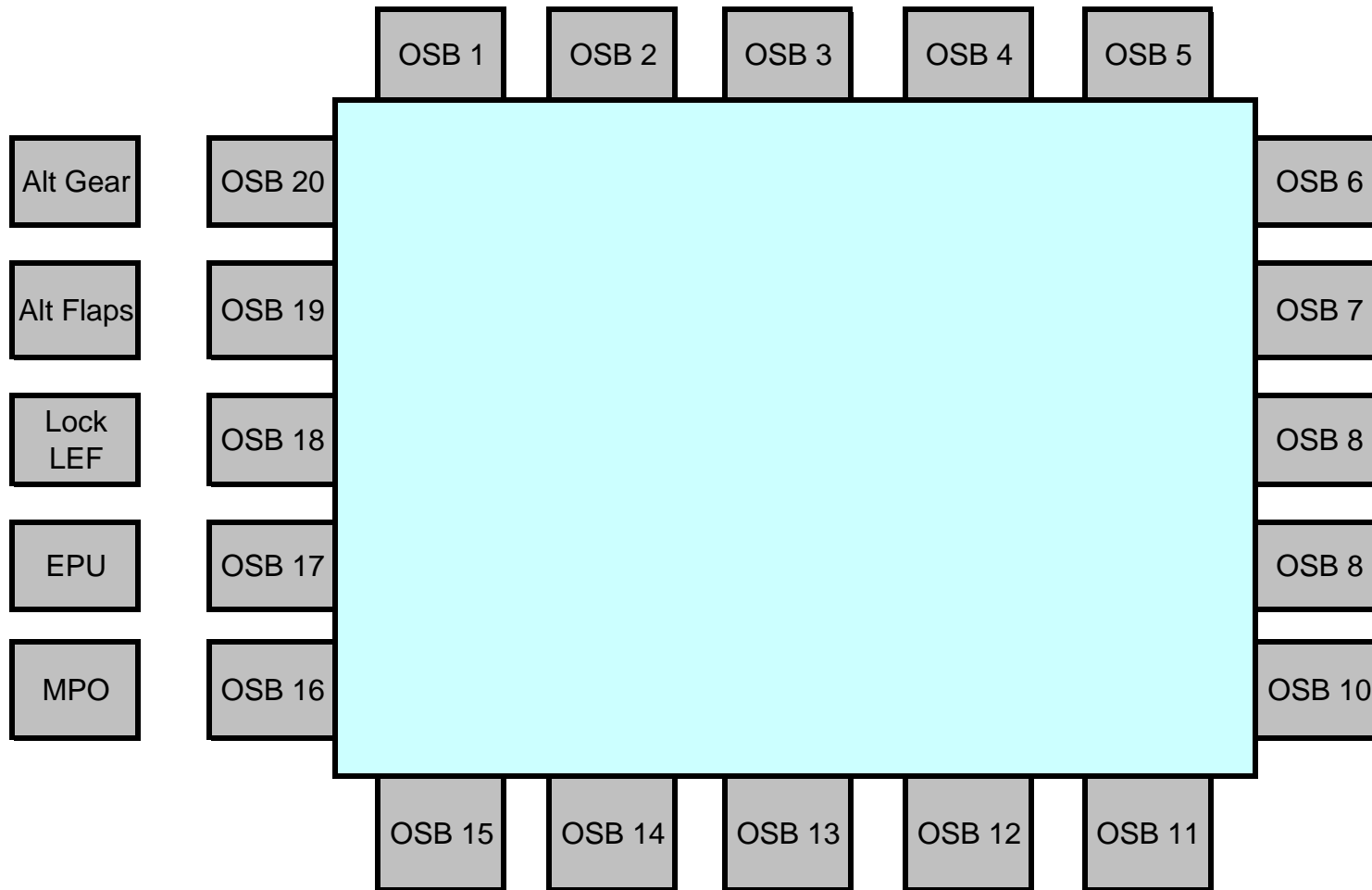
A slash (/) indicates a
Tap--Press command

Grey areas represent
shifted commands

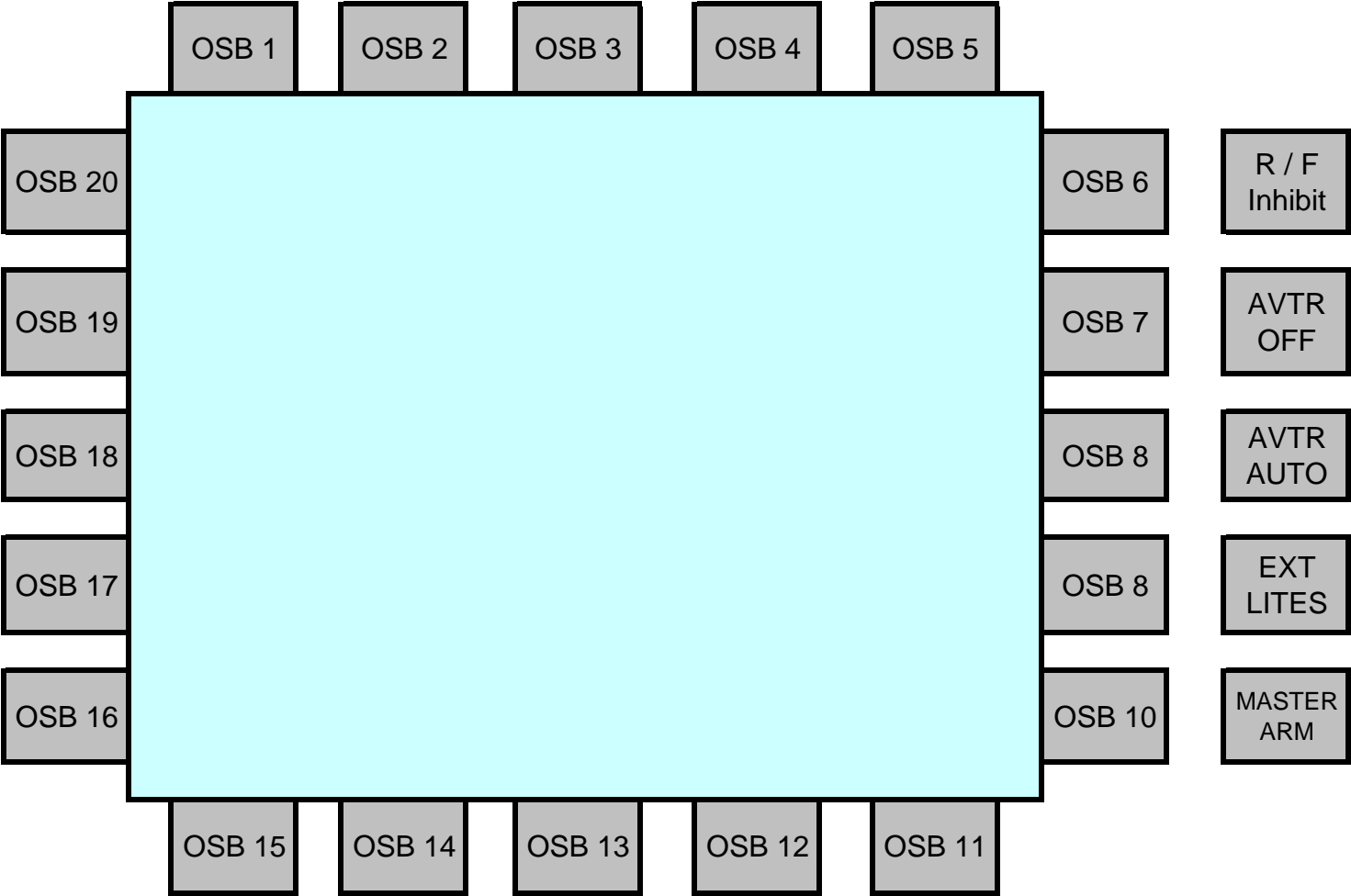




L/H MFP



R/H MFP



Key: **Normal Key** **Shift + Key** **Ctrl + Key** **Alt + Key** **Shift-Ctrl + Key** **Shift-Alt + Key** **Ctrl-Alt + Key** **Shift-Ctrl-Alt + Key**

Gunny's F4AF Keyboard Map

Escape Sim-Exit	F1 Radar-Air to Air Ckpit-Aux Comm Lft digit Ckpit-Fuel Switch Dec Ckpit-Power TISL Ckpit-Power Main Dec	F2 Radar-Air to Ground Ckpit-Aux Comm Ctr digit Ckpit-Fuel Switch Inc Ckpit-Power HUD Ckpit-Power Main Inc	F3 Radar-Range Knob Down Radar-gain decrease Radar-range decrease Ckpit-Aux Comm Rt digit Ckpit-Air Source Dec Ckpit-Power Left Hpt EWS-Chaff Power	F4 Radar-Range Knob Up Radar-gain increase Radar-range increase Ckpit-Aux Comm Band X/Y Ckpit-Air Source Inc Ckpit-Power Right Hpt EWS-Flare Power	F5 Radar-Antenna tilt down Radar-ACM boresight Ckpit-Aux Comm UFC/Backup Ckpit-Fuel Pump Switch Dec Ckpit-Power FCR EWS-Jammer Power	F6 Radar-Antenna center Radar-ACM 30x20 Ckpit-Aux Comm AA/TR Ckpit-Fuel Pump Switch Inc Ckpit-Power FCC EWS-RWR Power
` Sim-Chat View-Action Camera View-Satellite Camera	1 View-HUD Only View-Cockpit Ghost MFD Zoom Ckpit-AP Switch Left Voice-Transmit Com1 RightMFD-OSB 01 LeftMFD-OSB 01	2 View-2D Cockpit View-Cockpit Wide/Normal Ckpit-AP Switch Right Voice-Transmit Com2 RightMFD-OSB 02 LeftMFD-OSB 02	3 View-Virtual cockpit View-Toggle SA bar Ckpit-AP Override RightMFD-OSB 03 LeftMFD-OSB 03	4 View-Padlock View-Padlock Mode=AA Trim-AP Disc View-Padlock Mode=AG RightMFD-OSB 04 LeftMFD-OSB 04	5 View-Extended FOV View-Padlock EFOV Mode=AA Flaps-Lock LEFs View-Padlock EFOV Mode=AG RightMFD-OSB 05 LeftMFD-OSB 05	6 View-Tracking View-Target RightMFD-OSB 06 LeftMFD-OSB 06
Tab Radio-Menu	Q Radio-AWACS command EWS-Program Dec Sim-Mouse Button 1	W Radio-Wingman command EWS-Program Inc Sim-Mouse Button 2 HUD-Warning reset	E Radio-Element command Easy Radar-Previous Enemy Ckpit-Eject Ckpit-EPU step Ckpit-SeatArm	R Radio-Flight command Easy Radar-Boresight Enemy Radar-standby Sim-Show score Ckpit-Fuel Door Radar-RF Inhibit	T Radio-ATC message Easy Radar-Previous Friendly Lights-Test	Y Radio-Tanker message Easy Radar-Boresight Friendly Radio-Channel cycle
Capslock Sim-2x time compression Sim-Time Accel Inc Sim-Time Accel Dec	A Ckpit-Autopilot Ckpit-Radar Altimeter ON Ckpit-Radar Altimeter STDBY Ckpit-Radar Altimeter OFF Ckpit-Terrain Following Radar HUD-Altimeter type	S Ckpit-Steerpoint next Ckpit-Steerpoint previous Sim-Smoke toggle Sim-Sound off HUD-Heading scales	D Ckpit-Dogfight override mode Ckpit-Deploy Drag Chute ICP-DLNK Ckpit-Dump Fuel HUD-Display DED	F Ckpit-AVTR Ckpit-AVTR Auto Ckpit-F ACK Ckpit-AVTR Off Flaps(Alternate)-Extend RightMFD-Brightness Down LeftMFD-Brightness Down HUD-Flight Path Marker	G Ckpit-Landing gear Ckpit-Landing gear Up Ckpit-Betty gear horn Ckpit-Landing gear Down Ckpit-Reset Alt Gear Extension RightMFD-Brightness Up LeftMFD-Brightness Up Ckpit-Alternate Landing Gear	H HUD-Declutter HUD-Display FLIR Landing Help Toggle HUD-Scale type
Shift	Z Ckpit-Air brakes open EWS-PGM Dec Key-Combination Ctrl-Z Ckpit-Chaff/Flare auto/manual HUD-Brightness Down	X EWS-Run Program EWS-PGM Inc Key-Combination Ctrl-X HUD-Brightness Up	C Ckpit-MRM/DF override cancel Ckpit-CAT I/III Ckpit-Betty Master Caution Key-Combination Alt-C Ckpit-Open/Close canopy HUD-Color	V Radar-SOI FOV Radar-Maverick FOV Ckpit-VMS Inhibit HOTAS-Pinky Switch HSI-Course decrement HUD-Velocity cues	B Ckpit-Air brakes toggle Ckpit-Air brakes close Sim-Sound down HSI-Course increment HUD-Brightness	N Ckpit-NVG HOTAS-Cursor enable Sim-Sound up HSI-Heading decrement
Ctrl	Leftwin	Alt	Space Wpn-Pickle			

Key: **Normal Key** **Shift + Key** **Ctrl + Key** **Alt + Key** **Shift-Ctrl + Key** **Shift-Alt + Key** **Ctrl-Alt + Key** **Shift-Ctrl-Alt + Key**

F7 Radar-Antenna tilt up Radar-ACM slewable Ckpit-UHF Normal/Backup Ckpit-Fuel Master Switch Ckpit-Power SMS Ckpit-INS Dec	F8 TrackIR-Precision Radar-Bar scan Radar-ACM vertical Ckpit-Power MFD Ckpit-INS Inc	F9 TrackIR-Pause Radar-GM FOV Flaps-Set to Null Flaps-Set LEF to Null Ckpit-Power UFC Lights-Extl Power	F10 Radar-GM picture freeze Radar-GM snowplow Flaps-Set to Full Flaps-Set LEF to Full Ckpit-Power GPS Lights-Extl Anti Coll	F11 Radar-submodes/azimuth Radar-HSD range decrease Flaps-Decrease Flaps-Decrease LEF Ckpit-Power Datalink Lights-Extl Wing	F12 TrackIR-Center Radar-HSD range increase Flaps-Increase Flaps-Increase LEF Ckpit-Power MAP Lights-Extl Steady	
7 View-Enemy Aircraft View-Weapon's target RightMFD-OSB 07 LeftMFD-OSB 07	8 View-Friendly View-Friendly ground unit View-Enemy vehicle RightMFD-OSB 08 LeftMFD-OSB 08	9 View-Weapon View-Flyby View-Chase RightMFD-OSB 09 LeftMFD-OSB 09	0 View-Orbit View-Tower Camera RightMFD-OSB 10 LeftMFD-OSB 10	- View-Zoom Out Ctrl-Step throttle down Ctrl-Min Afterburner Ctrl-Throttle Idle	= View Zoom In Ctrl-Step throttle up Ctrl-Full afterburner	Backspace Wpn-A to G cycle hardpoints
U Wpn-Sidewinder-Cage/Uncage Wpn-Sidewinder Spot/Scan Wpn-Missile Bore/Slave Wpn-Missile TD/BP	I View-Incoming HSI-Modes toggle HSI-TACAN Mode Ctrl-Throttle Idle Detent HSI-NAV Mode	O Ckpit-Manual pitch override Fuel Total-Norm Fuel Total-Centerline Fuel Total-External	P Sim-Pause Sim-Freeze Pumps-FWD Ckpit-Parking brake Pumps-AFT Pumps-Norm HUD-Pitch ladder	[MFD-Step 1 MFD-Step 4 HUD-Man.Bomb Reticle Down Sim-Mouse SOI On Sound-Missile Volume Down Sound-Threat Volume Down Comm-1 Volume Down Comm-2 Volume Down] MFD-Step 2 MFD-Step 3 HUD-Man.Bomb Reticle Up Sim-Mouse SOI Off Sound-Missile Volume up Sound-Threat Volume up Comm-1 Volume up Comm-2 Volume up	\
J Ckpit-ECM Ckpit-JFS switch Ckpit-Jettison all Ckpit-Ground Jett enable	K Ckpit-Wheel brakes Ckpit-Hook Ckpit-Kneeboard page	L View-Look closer Sim-labels near Sim-labels far Ckpit-Laser Arm Ckpit-Instrument lights Ckpit-Aircraft lights Ckpit-Landing light	; Glance-Backwards Wpn-Bomb ripple dec Wpn-Bomb interval dec Wpn-Release bombs singly	' Glance-FWD Wpn-Bomb ripple inc Wpn-Bomb interval inc Wpn-Release bombs in pairs	Enter Wpn-A to A cycle hardpoints	
	M Ckpit-MRM override mode Ckpit-Master Arm on Ckpit-Master Arm safe Ckpit-Master Arm sim Wpn-MAN Reticle HSI-Heading increment Ckpit-Master Arm cycle	, Ctrl-Rudder left View-Aircraft previous Wpn-CBU burst altitude dec Ckpit-ALOW altitude dec	. Ctrl-Rudder right View-Aircraft next Wpn-CBU burst altitude inc Ckpit-ALOW altitude inc	/ Wpn-Fire gun Wpn-Missile Hardpoints cycle HOTAS-First Trigger Detent HOTAS-Second Trigger Detent	Shift	
		Alt	RtWin	Menu	Ctrl	

Key: Normal Key Shift + Key Ctrl + Key Alt + Key Shift-Ctrl + Key Shift-Alt + Key Ctrl-Alt + Key Shift-Ctrl-Alt + Key

<div>Insert</div> <div>View-Rotate Down RWR-Search RWR-Priority Trim-Manual yaw Left</div>	<div>Home</div> <div>View-Rotate Up RWR-Unknown RWR-Low Trim-Manual nose up</div>	<div>Pageup</div> <div>ICP-NEXT RWR-Naval RWR-Target Separate Trim-Manual yaw right</div>
<div>Delete</div> <div>View-Rotate Left Trim-Manual roll left</div>	<div>End</div> <div>View-Rotate Right Trim-Manual nose down</div>	<div>Pagedown</div> <div>ICP-PREVIOUS RWR-Handoff ICP-Drift C/O Trim-Manual roll right</div>
	<div>Uparrow</div> <div>ICP-DCS Up Trim-Reset HOTAS-TMS Up Trim-Elevator Up Ctrls-Nose down</div>	
<div>Leftarrow</div> <div>ICP-DCS Left Trim-Aileron Left HOTAS-TMS Left Trim-Rudder Left Ctrls-Roll left</div>	<div>Downarrow</div> <div>ICP-DCS Down Radar-cursors reset HOTAS-TMS Down Trim-Elevator Down Ctrls-Nose up</div>	<div>Rtarrow</div> <div>ICP-DCS Right Trim-Aileron Right HOTAS-TMS Right Trim-Rudder Right Ctrls-Roll right</div>

<div>Numlock</div>	<div>Num-divide</div> <div>ICP-LIST ICP-COM1 View-Cockpit HUD</div>	<div>Num-times</div> <div>ICP-AA ICP-COM2</div>	<div>Num-minus</div> <div>ICP-AG View-Padlock previous View-Padlock prev AA View-Padlock prev AG</div>
<div>Num-7</div> <div>ICP-7 MARK ICP-IFF RightMFD-OSB 17 LeftMFD-OSB 17 View-Cockpit 10:00</div>	<div>Num-8</div> <div>ICP-8 FIX HOTAS-DMS Up RightMFD-OSB 18 LeftMFD-OSB 18</div>	<div>Num-9</div> <div>ICP-9 A-CAL RightMFD-OSB 19 LeftMFD-OSB 19 View-Cockpit 2:00</div>	<div>Num-plus</div> <div>ICP-RESET View-Padlock next View-Padlock next AA View-Padlock next AG</div>
<div>Num-4</div> <div>ICP-4 STPT HOTAS-DMS Left RightMFD-OSB 14 LeftMFD-OSB 14 View-Cockpit 9:00</div>	<div>Num-5</div> <div>ICP-5 CRUS RightMFD-OSB 15 LeftMFD-OSB 15 View-Reset</div>	<div>Num-6</div> <div>ICP-6 TIME HOTAS-DMS Right RightMFD-OSB 16 LeftMFD-OSB 16 View-Cockpit 3:00</div>	
<div>Num-1</div> <div>ICP-1 T-ILS RightMFD-OSB 11 LeftMFD-OSB 11 View-Cockpit 8:00</div>	<div>Num-2</div> <div>ICP-ALOW HOTAS-DMS Down RightMFD-OSB 12 LeftMFD-OSB 12 View-Cockpit lower right</div>	<div>Num-3</div> <div>ICP-3 RightMFD-OSB 13 LeftMFD-OSB 13 View-Cockpit 4:00</div>	
<div>Num-0</div> <div>ICP-0 M-SEL RADAR-Designate Target RightMFD-OSB 20 LeftMFD-OSB 20 View-Cockpit lower left</div>			