

## MISCELLANEOUS

TOGGLE FUEL PUMP	<b>Alt+P</b>
TOGGLE MARKER SOUND	<b>Ctrl+S</b>
MINUS	<b>Ctrl+Num -</b>
PLUS	<b>Ctrl+Num +</b>
TOGGLE PUSHBACK	<b>Shift+P</b>
REQUEST FUEL	<b>Shift+F</b>
DISPLAY NAVLOG	<b>N</b>
DISPLAY MAP	<b>V</b>
SIM RATE	<b>R</b>
SKIP RTC	<b>Backspace</b>
TOGGLE DELEGATE CONTROL TO CO-PILOT	<b>Ctrl+Alt+x</b>

## INSTRUMENTS AND SYSTEMS

TOGGLE ANTI ICE	<b>H</b>
TOGGLE PITOT HEAT	<b>Shift+H</b>

## ELECTRICS

TOGGLE MASTER ALTERNATOR	<b>Alt+A</b>
TOGGLE MASTER BATTERY	<b>Alt+B</b>
TOGGLE MASTER BATTERY & ALTERNATOR	<b>Shift+M</b>

## ENGINE INSTRUMENTS

DECREASE COWL FLAP	<b>Shift+Ctrl+C</b>
SELECT ENGINE	<b>E</b>
AUTO START ENGINE	<b>Ctrl+E</b>
ENGINE AUTOSTOP	<b>Shift+Ctrl+E</b>
INCREASE COWL FLAP	<b>Shift+Ctrl+V</b>
MAGNETO	<b>M</b>
MAGNETO BOTH	<b>Shift+Alt+F</b>
MAGNETOS LEFT	<b>Shift+Alt+S</b>
MAGNETOS OFF	<b>Shift+Alt+Q</b>
MAGNETOS RIGHT	<b>Shift+Alt+D</b>
MAGNETO START	<b>Shift+Alt+G</b>
TOGGLE MASTER IGNITION SWITCH	<b>Alt+I</b>

## FLIGHT INSTRUMENTS

SELECT AIRSPEED BUG	<b>Shift+Ctrl+R</b>
SELECT ALTITUDE BUG	<b>Shift+Ctrl+Z</b>
TOGGLE AUTORUDDER	<b>Shift+Ctrl+U</b>
SET ALTIMETER	<b>B</b>
DECREASE HEADING BUG	<b>Ctrl+Delete</b>
INCREASE HEADING BUG	<b>Ctrl+Insert</b>
SELECT HEADING BUG	<b>Shift+Ctrl+H</b>
SET HEADING INDICATOR	<b>D</b>
TOGGLE ALTERNATE STATIC	<b>Alt+S</b>

## FUEL

TOGGLE FUEL DUMP	<b>Shift+Ctrl+D</b>
FUEL SELECTOR 1 ALL	<b>Alt+W</b>
FUEL SELECTOR 1 OFF	<b>Ctrl+Alt+W</b>
TOGGLE ALL FUEL VALVES	<b>Alt+V</b>

## AUTOPILOT

AUTOPILOT AIRSPEED HOLD	<b>Alt+R</b>
DECREASE AUTOPILOT REFERENCE ALTITUDE	<b>Ctrl+Page Down</b>
INCREASE AUTOPILOT REFERENCE ALTITUDE	<b>Ctrl+Page Up</b>
TOGGLE AUTOPILOT APPROACH HOLD	<b>Ctrl+A</b>
TOGGLE AUTOPILOT ATTITUDE HOLD	<b>Ctrl+T</b>
TOGGLE AUTOPILOT LOCALIZER HOLD	<b>Ctrl+0</b>
TOGGLE AUTOPILOT MACH HOLD	<b>Ctrl+M</b>
TOGGLE AUTOPILOT MASTER	<b>Z</b>
AUTOPILOT N1 HOLD	<b>Ctrl+S</b>
DECREASE AUTOPILOT N1 REFERENCE	<b>Ctrl+End</b>
INCREASE AUTOPILOT N1 REFERENCE	<b>Ctrl+Home</b>
AUTOPILOT NAV1 HOLD	<b>Ctrl+N</b>
DECREASE AUTOPILOT REFERENCE AIRSPEED	<b>Shift+Ctrl+Delete</b>
INCREASE AUTOPILOT REFERENCE AIRSPEED	<b>Shift+Ctrl+Insert</b>
DECREASE AUTOPILOT REFERENCE VS	<b>Ctrl+End</b>
INCREASE AUTOPILOT REFERENCE VS	<b>Ctrl+Home</b>
TOGGLE AUTOPILOT WING LEVELER	<b>Ctrl+V</b>
AUTOPILOT OFF	<b>Shift+Alt+Z</b>
AUTOPILOT ON	<b>Alt+Z</b>
ARM AUTO THROTTLE	<b>Shift+R</b>
AUTO THROTTLE TO GA	<b>Shift+Ctrl+G</b>
TOGGLE AVIONICS MASTER	<b>Page Up</b>
TOGGLE FLIGHT DIRECTOR	<b>Ctrl+f</b>
TOGGLE YAW DAMPER	<b>Ctrl+D</b>

## BRAKES

TOGGLE ANTISKID BRAKES	<b>Num Del</b>
BRAKES	<b>Num *</b>
LEFT BRAKE	<b>Num -</b>
RIGHT BRAKE	<b>Ctrl+Num Del</b>
TOGGLE PARKING BRAKES	

## FLIGHT CONTROL SURFACES PRIMARY CONTROL SURFACES

AILERON LEFT (ROLL LEFT)	<b>Num 4</b>
AILERON RIGHT (ROLL RIGHT)	<b>Num 6</b>
CENTER AILER RUDDER	<b>Num 5</b>
ELEVATOR DOWN (PITCH DOWN)	<b>Num 2</b>
ELEVATOR UP (PITCH UP)	<b>Num 8</b>
TOGGLE WATER RUDDER	<b>Ctrl+W</b>
RUDDER LEFT (YAW LEFT)	<b>Num 0</b>
RUDDER RIGHT (YAW RIGHT)	<b>Enter</b>

## SECONDARY CONTROL SURFACES

DECREASE FLAPS	<b>F6</b>
EXTEND FLAPS	<b>F5</b>
INCREASE FLAPS	<b>F7</b>
RETRACT FLAPS	<b>F8</b>
TOGGLE SPOILERS	<b>Num /</b>

## CONTROL TRIMMING SURFACES

AILERON TRIM LEFT	<b>Ctrl+Num 4</b>
AILERON TRIM RIGHT	<b>Ctrl+Num 6</b>
RUDDER TRIM LEFT	<b>Ctrl+Num 0</b>
RUDDER TRIM RIOHT	<b>Ctrl+Enter</b>
ELEVATOR TRIM DOWN (NOSE DOWN)	<b>Num 7</b>
ELEVATOR TRIM UP (NOSE UP)	<b>Num 1</b>

## LANDING GEARS

TOGGLE LANDING GEAR	<b>G</b>
GEAR DOWN	<b>Ctrl+G</b>
Toggle Tail wheel Lock	<b>Shift+G</b>

## LIGHTS

TOGGLE LIGHTS	<b>L</b>
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### EXTERIOR LIGHTS

TOGGLE LANDING LIGHTS	<b>Ctrl+L</b>
LANDING LIGHT DOWN	<b>Shift+Ctrl+Num 2</b>
LANDING LIGHT HOME	<b>Shift+Ctrl+Num 5</b>
LANDING LIGHT LEFT	<b>Shift+Ctrl+Num 4</b>
LANDING LIGHT RIGHT	<b>Shift+Ctrl+Num 6</b>
LANDING LIGHT UP	<b>Shift+Ctrl+Num 8</b>
TOGGLE STROBES	<b>O</b>
TOGGLE BEACON LIGHTS	<b>Alt+H</b>
TOGGLE NAV LIGHTS	<b>Alt+N</b>
TOGGLE TAXI LIGHTS	<b>Alt+J</b>

## INTERIOR LIGHTS

TOGGLE FLASHLIGHT	<b>Alt+L</b>
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## MENU

TOGGLE ACTIVE PAUSE	<b>Pause</b>
TOGGLE BASIC CONTROL PANEL	<b>Ctrl+C</b>
CLEAR SEARCH	<b>Del</b>
TOGGLE PAUSE	<b>Esc</b>
SELECT 1	<b>Alt+F1</b>
SELECT 2	<b>Alt+F2</b>
SELECT 3	<b>Alt+F3</b>
SELECT 4	<b>Alt+F4</b>
DISPLAY CHECKLIST	<b>Shift+C</b>
NEXT TOOLBAR	<b>.</b>
PREVIOUS TOOLBAR	<b>/</b>
BACK TO MAIN MENU	<b>End</b>
CLOSE MENU	<b>Backspace</b>
FLY	<b>Enter</b>
CHANGE AIRCRAFT	<b>F11</b>
LIVERIES	<b>F12</b>
SEE SPECIFICATIONS	<b>F10</b>
HELP MENU	<b>Tab</b>
RESTART FREE FLIGHT	<b>Home</b>
RESTART ACTIVITY	<b>Home</b>

## POWER MANAGEMENT MIXTURE

DECREASE MIXTURE	<b>Shift+Ctrl+F2</b>
INCREASE MIXTURE (SMALL)	<b>Shift+Ctrl+F3</b>
SET MIXTURE LEAN	<b>Shift+Ctrl+F1</b>
SET MIXTURE RICH	<b>Shift+Ctrl+F4</b>

## PROPELLER

DECREASE PROPELLER PITCH	<b>Ctrl+F2</b>
PROPELLER PITCH HI	<b>Ctrl+F4</b>
INCREASE PROPELLER PITCH	<b>Ctrl+F3</b>
PROPELLER PITCH LO	<b>Ctrl+F1</b>

## THROTTLE

CUT THROTTLE	<b>F1</b>
DECREASE THROTTLE	<b>F2</b>
FULL THROTTLE	<b>F4</b>
INCREASE THROTTLE	<b>F3</b>

## RADIO

DISPLAY ATC	<b>Scroll Lock</b>
ATC PANEL CHOICE 0	<b>0</b>
ATC PANEL CHOICE 1	<b>1</b>
ATC PANEL CHOICE 2	<b>2</b>
ATC PANEL CHOICE 3	<b>3</b>
ATC PANEL CHOICE 4	<b>4</b>
ATC PANEL CHOICE 5	<b>5</b>
ATC PANEL CHOICE 6	<b>6</b>
ATC PANEL CHOICE 7	<b>7</b>
ATC PANEL CHOICE 8	<b>8</b>
ATC PANEL CHOICE 9	<b>9</b>
FREQUENCY SWAP	<b>X</b>
TOGGLE CABIN LIGHTS	<b>Shift</b>

## ADF

ADF	<b>Shift+Ctrl+A</b>
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## COMMS

COM RADIO	<b>C</b>
SET COM1 STANDBY	<b>Shift+Alt+X</b>
COM1 SWITCH TO STANDBY	<b>Alt+U</b>

## DME

DME	<b>F</b>
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## NAV

DECREASE NAV1 FREQUENCY (FRACT,CARRY)	<b>Shift+Ctrl+Page Down</b>
INCREASE NAV1 FREQUENCY (FRACT,CARRY)	<b>Shift+Ctrl+Page Up</b>
NAV1 SWAP	<b>Shift+Ctrl+N</b>
NAV RADIO	<b>N</b>

## VOR

DECREASE VOR1 OBS	<b>Shift+Ctrl+End</b>
INCREASE VOR1 OBS	<b>Shift+Ctrl+Home</b>
VOR OBS	<b>Shift+V</b>

## XPNDR

TRANSPONDER	<b>T</b>
SET TRANSPONDER	<b>Shift+Alt+W</b>

## CAMERA SLEW MODE

TOGGLE SLEW MODE **Y**

## CAMERA MODE SWITCHES

COCKPIT/EXTERNAL VIEW MODE **End**  
TOGGLE DRONE **Insert**

## COCKPIT CAMERA

INCREASE COCKPIT VIEW HEIGHT **Alt+Down**  
DECREASE COCKPIT VIEW HEIGHT **Alt+Up**  
TRANSLATE COCKPIT VIEW BACKWARD **Down**  
TRANSLATE COCKPIT VIEW FORWARD **Up**  
TRANSLATE COCKPIT VIEW LEFT **Left**  
TRANSLATE COCKPIT VIEW RIGHT **Right**  
COCKPIT LOOK DOWN **Shift+Down**  
COCKPIT LOOK LEFT **Shift+Left**  
COCKPIT LOOK RIGHT **Shift+Right**  
COCKPIT LOOK UP **Shift+Up**  
COCKPIT QUICKVIEW UP **Ctrl+Up**  
COCKPIT QUICKVIEW REAR **Ctrl+Down**  
COCKPIT QUICKVIEW RIGHT **Ctrl+Right**  
COCKPIT QUICKVIEW LEFT **Ctrl+Left**  
COCKPIT VIEW QUICKVIEW CYCLE **Q**  
RESET COCKPIT VIEW **Ctrl+Space**  
COCKPIT VIEW UPPER **Space**  
UNZOOM EXTERNAL VIEW **-**  
TOGGLE SMART CAMERA **S**  
ZOOM COCKPIT VIEW **=**

## DRONE CAMERA

TOGGLE DRONE DEPTH OF FIELD **F1**  
TOGGLE FOREGROUND BLUR **F5**  
DRONE TOP DOWN VIEW **Ctrl+Space**  
ATTACH DRONE TO NEXT TARGET **Ctrl+Page Up**  
ATTACH DRONE TO PREVIOUS TARGET **Ctrl+Page Down**  
TOGGLE DRONE AUTO EXPOSURE **Ctrl+F4**  
TOGGLE DRONE AUTO FOCUS **F4**  
DECREASE DRONE ROTATION SPEED **F3**  
DECREASE DRONE TRANSLATION SPEED **F1**  
DECREASE DRONE DEPTH OF FIELD **F2**  
INCREASE DRONE DEPTH OF FIELD **F3**  
DECREASE DRONE EXPOSURE **Ctrl+F2**  
INCREASE DRONE EXPOSURE **Ctrl+F3**  
INCREASE DRONE ROTATION SPEED **F4**  
INCREASE DRONE TRANSLATION SPEED **F2**  
LOCK DRONE TO NEXT TARGET **A**  
LOCK DRONE TO PREVIOUS TARGET **Shift+A**  
TRANSLATE DRONE BACKWARD **S**  
TRANSLATE DRONE DOWN **F**  
TRANSLATE DRONE FORWARD **Z**  
TRANSLATE DRONE RIGHT **Q**  
TRANSLATE DRONE LEFT **D**  
TRANSLATE DRONE UP **R**  
RESET DRONE ROLL **Space**  
RESET DRONE TARGET OFFSET **Num 5**  
PITCH DRONE UP **Num 2**  
ROLL DRONE RIGHT **Num 9**  
PITCH DRONE DOWN **Num 8**  
YAW DRONE LEFT **Num 4**  
YAW DRONE RIGHT **Num 6**  
ROLL DRONE LEFT **Num 7**  
TOGGLE DRONE FOLLOW MODE **Tab**  
TOGGLE DRONE LOCK MODE **Ctrl+Tab**  
INCREASE DRONE ZOOM **Num +**  
DECREASE DRONE ZOOM **Num -**  
TOGGLE PLANE CONTROLS **C**

## EXTERNAL CAMERA

RESET EXTERNAL CAMERA **Ctrl+Space**  
EXTERNAL QUICKVIEW LEFT **Ctrl+Left**  
EXTERNAL QUICKVIEW REAR **Ctrl+Down**  
EXTERNAL QUICKVIEW RIGHT **Ctrl+Right**  
EXTERNAL QUICKVIEW TOP **Ctrl+Up**  
UNZOOM EXTERNAL VIEW **-**  
ZOOM EXTERNAL VIEW **=**

## FIXED CAMERA

TOGGLE CAMERA 10 **Ctrl+0**  
TOGGLE CAMERA 1 **Ctrl+1**  
TOGGLE CAMERA 2 **Ctrl+2**  
TOGGLE CAMERA 3 **Ctrl+3**  
TOGGLE CAMERA 4 **Ctrl+4**  
TOGGLE CAMERA 5 **Ctrl+5**  
TOGGLE CAMERA 6 **Ctrl+6**  
TOGGLE CAMERA 7 **Ctrl+7**  
TOGGLE CAMERA 8 **Ctrl+8**  
TOGGLE CAMERA 9 **Ctrl+9**  
RESET FIXED CAMERA **F**  
PREVIOUS FIXED CAMERA **Shift+A**  
NEXT FIXED CAMERA **A**

## INSTRUMENT VIEWS

PREVIOUS INSTRUMENT VIEW **Shift+A**  
NEXT INSTRUMENT VIEW **A**  
TOGGLE INSTRUMENT VIEW 10 **Ctrl+0**  
TOGGLE INSTRUMENT VIEW 1 **Ctrl+1**  
TOGGLE INSTRUMENT VIEW 2 **Ctrl+2**  
TOGGLE INSTRUMENT VIEW 3 **Ctrl+3**  
TOGGLE INSTRUMENT VIEW 4 **Ctrl+4**  
TOGGLE INSTRUMENT VIEW 5 **Ctrl+5**  
TOGGLE INSTRUMENT VIEW 6 **Ctrl+6**  
TOGGLE INSTRUMENT VIEW 7 **Ctrl+7**  
TOGGLE INSTRUMENT VIEW 8 **Ctrl+8**  
TOGGLE INSTRUMENT VIEW 9 **Ctrl+9**  
INSTRUMENT VIEW LOOK DOWN **Down**  
INSTRUMENT VIEW LOOK LEFT **Left**  
INSTRUMENT VIEW LOOK RIGHT **Right**  
INSTRUMENT VIEW LOOK UP **Up**

## USER CAMERAS

LOAD CUSTOM CAMERA 0 **Alt+0**  
LOAD CUSTOM CAMERA 1 **Alt+1**  
LOAD CUSTOM CAMERA 2 **Alt+2**  
LOAD CUSTOM CAMERA 3 **Alt+3**  
LOAD CUSTOM CAMERA 4 **Alt+4**  
LOAD CUSTOM CAMERA 5 **Alt+5**  
LOAD CUSTOM CAMERA 6 **Alt+6**  
LOAD CUSTOM CAMERA 7 **Alt+7**  
LOAD CUSTOM CAMERA 8 **Alt+8**  
LOAD CUSTOM CAMERA 9 **Alt+9**  
LOAD NEXT CUSTOM CAMERA **Alt+A**  
LOAD PREVIOUS CUSTOM CAMERA **Alt+Shift+A**  
SAVE CUSTOM CAMERA 0 **Ctrl+Alt+0**  
SAVE CUSTOM CAMERA 1 **Ctrl+Alt+1**  
SAVE CUSTOM CAMERA 2 **Ctrl+Alt+2**  
SAVE CUSTOM CAMERA 3 **Ctrl+Alt+3**  
SAVE CUSTOM CAMERA 4 **Ctrl+Alt+4**  
SAVE CUSTOM CAMERA 5 **Ctrl+Alt+5**  
SAVE CUSTOM CAMERA 6 **Ctrl+Alt+6**  
SAVE CUSTOM CAMERA 7 **Ctrl+Alt+7**  
SAVE CUSTOM CAMERA 8 **Ctrl+Alt+8**  
SAVE CUSTOM CAMERA 9 **Ctrl+Alt+9**  
SELECT NEXT POI **Page Up**  
RESET SMARTCAM **Ctrl+F**  
SET CUSTOM SMARTCAM TARGET **T**  
NEXT SMARTCAM TARGET **Page Up+Ctrl**  
CAMERA AI PLAYER **Home+Ctrl**  
PREVIOUS SMARTCAM TARGET **Page Down+Ctrl**  
TOGGLE FOLLOW SMARTCAM TARGET **Page Down**  
UNSET CUSTOM SMARTCAM TARGET **Shift+T**