

# VELOCITYONE™ FLIGHTDECK

UNIVERSAL SIMULATION HOTAS SYSTEM | SYSTÈME HOTAS DE SIMULATION UNIVERSELLE

## PRODUCT GUIDE

IMPORTANT: READ BEFORE FLIGHT

### PLATFORM COMPATIBILITY

■ Windows 10/11

LHR  
LONDON  
HEATHROW

CDG  
PARIS  
CHARLES DE GAULLE

VO  
LONDON  
HEATHROW

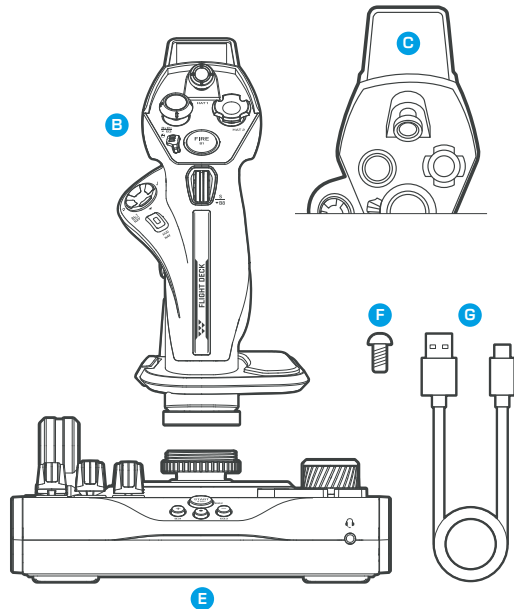
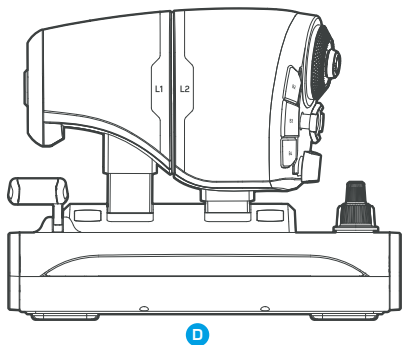
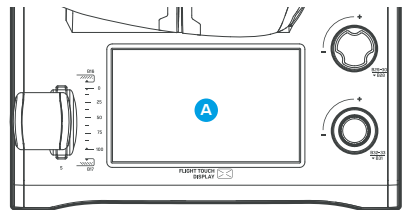
PEK  
BEIJING  
PEKING

HKG  
HONG KONG  
HONG KONG

DXB  
DUBAI  
DUBAI

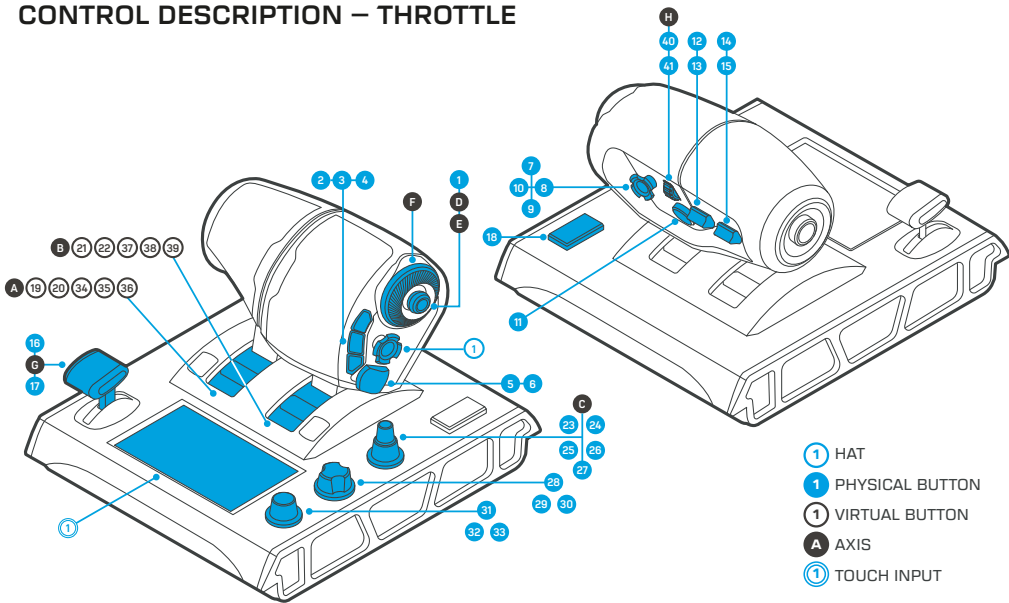
BKK  
BANGKOK  
SUWARNABHUMI

## CONTENTS & PRODUCT TOUR



- A** Flight Touch Display
- B** Stick Handle
- C** Head Up Display (HUD)
- D** Throttle Module
- E** Stick Base
- F** M5 hard-mounting screws x3
- G** 2m USB-C to USB-A cables x2

## CONTROL DESCRIPTION – THROTTLE



Type	Function
① HAT 1	8-WAY HAT SWITCH
A AXIS L1	LEFT THROTTLE FORWARD/BACK
B AXIS L2	RIGHT THROTTLE FORWARD/BACK
C AXIS	ALT KNOB (OUTER DIAL)
D AXIS POV 1 L/R	ANALOGUE POV 1 LEFT/RIGHT
E AXIS POV 1 U/D	ANALOGUE POV 1 UP/DOWN
F AXIS	THROTTLE THUMB WHEEL
G AXIS	FLAP LEVER UP/DOWN
H AXIS	THROTTLE FINGER WHEEL
1 PHYSICAL BUTTON	ANALOGUE POV CLICK

Type	Function
2 PHYSICAL BUTTON	BUTTON 2
3 PHYSICAL BUTTON	BUTTON 3
4 PHYSICAL BUTTON	BUTTON 4
5 PHYSICAL BUTTON	BUTTON 5 BACKWARD
6 PHYSICAL BUTTON	BUTTON 6 FORWARD
7 PHYSICAL BUTTON	BUTTON 7 NORTH
8 PHYSICAL BUTTON	BUTTON 8 EAST
9 PHYSICAL BUTTON	BUTTON 9 SOUTH
10 PHYSICAL BUTTON	BUTTON 10 WEST
11 PHYSICAL BUTTON	BUTTON 11

## CONTROL DESCRIPTION – THROTTLE

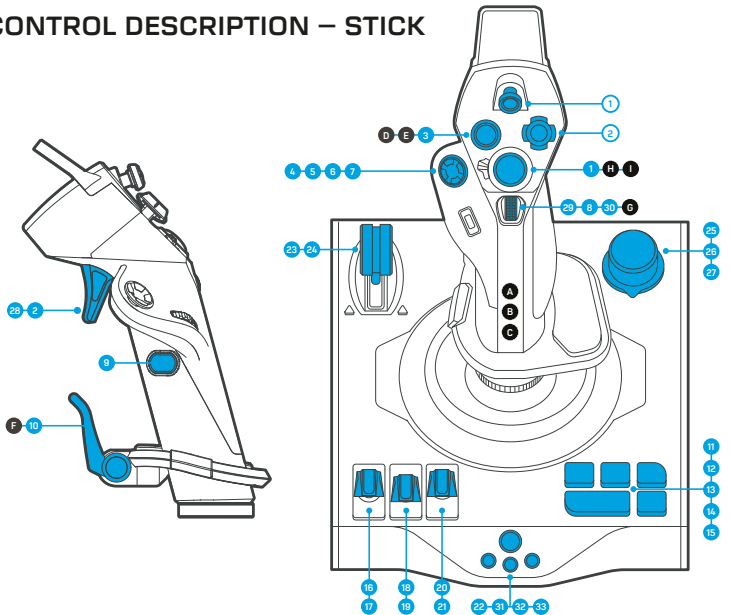
Type	Function
12 PHYSICAL BUTTON	BUTTON 12 UP
13 PHYSICAL BUTTON	BUTTON 13 DOWN
14 PHYSICAL BUTTON	BUTTON 14 UP
15 PHYSICAL BUTTON	BUTTON 15 DOWN
16 PHYSICAL BUTTON	BUTTON 16 FORWARD
17 PHYSICAL BUTTON	BUTTON 17 BACK
18 PHYSICAL BUTTON	BUTTON 18
19 VIRTUAL BUTTON LH	BUTTON 19 MAX. VIRTUAL DETENT
20 VIRTUAL BUTTON LH	BUTTON 20 MIN. VIRTUAL DETENT

Type	Function
21 VIRTUAL BUTTON RH	BUTTON 21 MAX. VIRTUAL DETENT
22 VIRTUAL BUTTON RH	BUTTON 22 MIN. VIRTUAL DETENT
23 PHYSICAL BUTTON	BUTTON 23 ALT
24 PHYSICAL BUTTON	BUTTON 24 UPPER, OUTER, LEFT
25 PHYSICAL BUTTON	BUTTON 25 UPPER, OUTER, RIGHT
26 PHYSICAL BUTTON	BUTTON 26 UPPER, INNER, LEFT
27 PHYSICAL BUTTON	BUTTON 27 UPPER, INNER, RIGHT

Type	Function
28 PHYSICAL BUTTON	BUTTON 28 HDG, PRESS
29 PHYSICAL BUTTON	BUTTON 29 MID, LEFT
30 PHYSICAL BUTTON	BUTTON 30 MID, RIGHT
31 PHYSICAL BUTTON	BUTTON 31 SPD, PRESS
32 PHYSICAL BUTTON	BUTTON 32 LOWER, LEFT
33 PHYSICAL BUTTON	BUTTON 33 LOWER, RIGHT
34 VIRTUAL BUTTON	BUTTON 34 FORWARD VIRTUAL DETENT
35 VIRTUAL BUTTON	BUTTON 35 MIDDLE VIRTUAL DETENT
36 VIRTUAL BUTTON	BUTTON 36 BACK VIRTUAL DETENT

Type	Function
37 VIRTUAL BUTTON	BUTTON 37 FORWARD VIRTUAL DETENT
38 VIRTUAL BUTTON	BUTTON 38 MIDDLE VIRTUAL DETENT
39 VIRTUAL BUTTON	BUTTON 39 BACK VIRTUAL DETENT
40 PHYSICAL BUTTON	BUTTON 40 WHEEL UP
41 PHYSICAL BUTTON	BUTTON 41 WHEEL DOWN
1 TOUCH INPUT	FLIGHT TOUCH DISPLAY

## CONTROL DESCRIPTION – STICK



- ① HAT
- 1 PHYSICAL BUTTON
- ① VIRTUAL BUTTON
- A AXIS
- ① TOUCH INPUT

Type	Function
① HAT	8-WAY HAT SWITCH
② HAT	8-WAY HAT SWITCH
A AXIS	MAIN STICK X AXIS
B AXIS	MAIN STICK Y AXIS
C AXIS	MAIN STICK Z AXIS
D AXIS	POV L/R AXIS (Rx)
E AXIS	POV U/D AXIS (Ry)
F AXIS	PADDLE AXIS (Rz)
G AXIS	THUMB WHEEL AXIS (SLIDER)
H AXIS	MOUSE X AXIS

Type	Function
1 AXIS	MOUSE Y AXIS
1 PHYSICAL BUTTON	PUSH BUTTON / MOUSE LEFT CLICK
2 PHYSICAL BUTTON	2nd STAGE TRIGGER
3 PHYSICAL BUTTON	ANALOGUE POV CLICK
4 PHYSICAL BUTTON	D-PAD EAST
5 PHYSICAL BUTTON	D-PAD SOUTH
6 PHYSICAL BUTTON	D-PAD WEST
7 PHYSICAL BUTTON	D-PAD NORTH
8 PHYSICAL BUTTON	THUMB WHEEL CLICK
9 PHYSICAL BUTTON	SHAFT BUTTON

## CONTROL DESCRIPTION – STICK

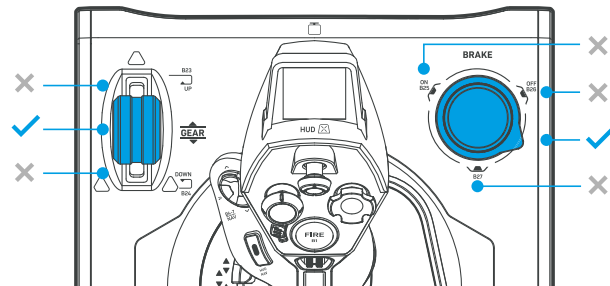
Type	Function
10	PHYSICAL BUTTON PINKIE LEVER
11	PHYSICAL BUTTON BUTTON 11
12	PHYSICAL BUTTON BUTTON 12
13	PHYSICAL BUTTON BUTTON 13
14	PHYSICAL BUTTON BUTTON 14
15	PHYSICAL BUTTON BUTTON 15
16	PHYSICAL BUTTON BUTTON 16 FORWARD
17	PHYSICAL BUTTON BUTTON 17 BACK
18	PHYSICAL BUTTON BUTTON 18 FORWARD

Type	Function
19	PHYSICAL BUTTON BUTTON 19 BACK
20	PHYSICAL BUTTON BUTTON 20 FORWARD
21	PHYSICAL BUTTON BUTTON 21 BACK
22	PHYSICAL BUTTON BUTTON 22
23	PHYSICAL BUTTON GEAR LEVER FORWARD
24	PHYSICAL BUTTON GEAR LEVER BACKWARD
25	PHYSICAL BUTTON 3-WAY ROTARY KNOB LEFT
26	PHYSICAL BUTTON 3-WAY ROTARY KNOB RIGHT
27	PHYSICAL BUTTON 3-WAY ROTARY KNOB DOWN

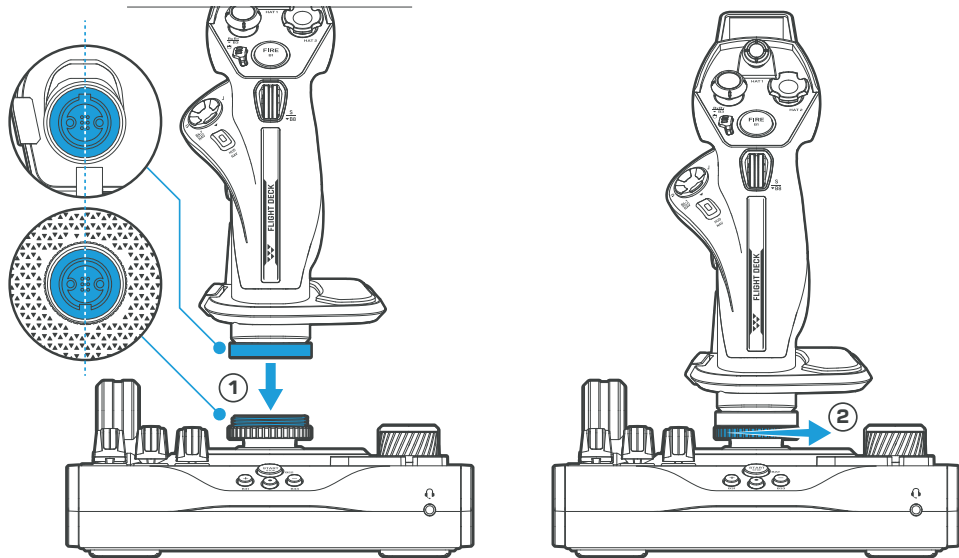
Type	Function
28	PHYSICAL BUTTON TRIGGER STAGE 1
29	PHYSICAL BUTTON STICK THUMB WHEEL UP
30	PHYSICAL BUTTON STICK THUMB WHEEL DOWN

Type	Function
31	PHYSICAL BUTTON BUTTON 31
32	PHYSICAL BUTTON BUTTON 32
33	PHYSICAL BUTTON BUTTON 33

To avoid mistakenly binding inputs when customizing/configuring controls in certain games and sims, move the **Landing Gear Lever** <sup>23</sup> <sup>24</sup> and **3-Way Rotary Knob** <sup>25</sup> <sup>26</sup> <sup>27</sup> to the middle zone between two buttons while customising. This is necessary because in the normal state, one of the buttons registers as 'depressed' or 'active' unless the dial and lever is set in between two inputs.



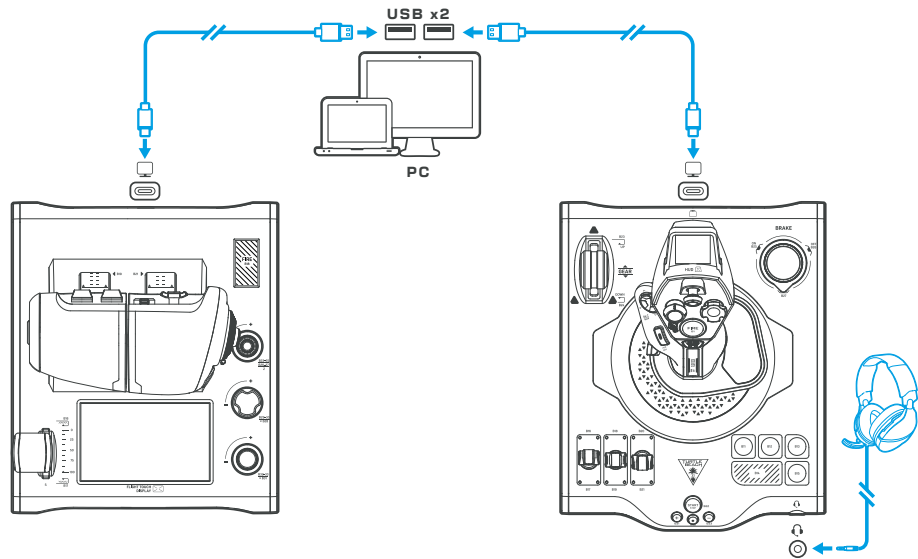
## SYSTEM SETUP - ATTACH STICK MODULE TO STICK BASE



**DO NOT ROTATE THE STICK HANDLE DURING THIS PROCESS.** This may damage the device.

- 1 Look at the gold contacts on the bottom of the stick handle, and rest them onto the matching slots on the base. Hold the stick handle in place with the right hand.
- 2 Using the left hand, slowly rotate the stick base's threaded ring anticlockwise [depicted in the diagram in blue] to attach the stick base and handle together, ensuring the threads are lined up and not crossed. **Do not over-tighten.**

## SYSTEM SETUP - CONNECT TO PC

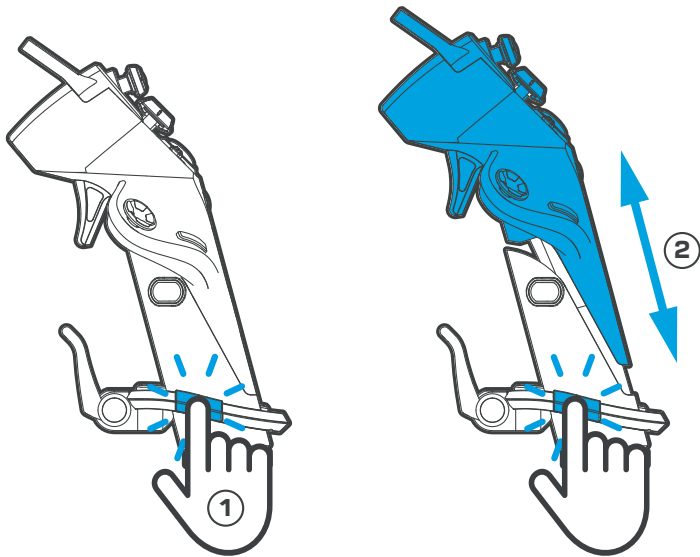


Connect VelocityOne Flightdeck to **2x USB ports** on PC by attaching the supplied USB cables as shown. If you have a headset with a standard 3.5mm connection, you can connect it to the Stick Base.

Flightdeck connects as two separate devices and can be used independently of each other as well as a complete HOTAS flight system.

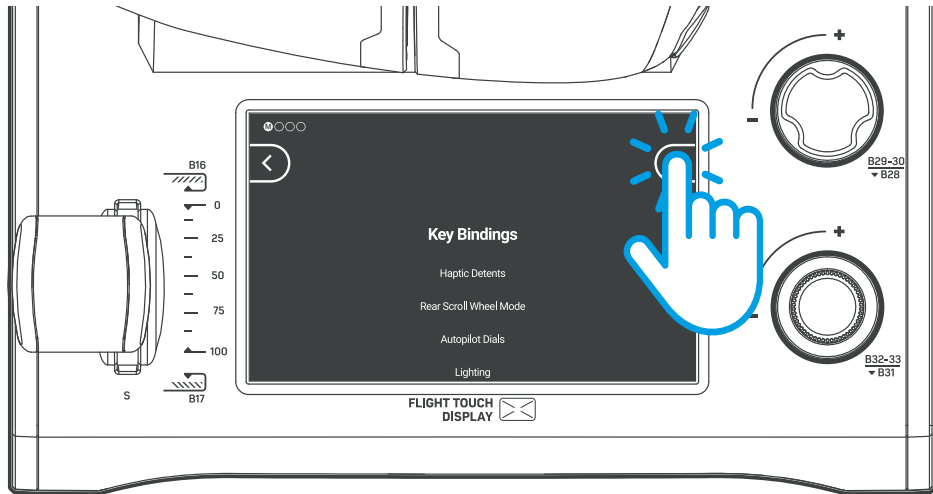


## SYSTEM SETUP - ADJUST STICK HEIGHT



To Adjust Stick height, push and hold the **height adjust button** inwards to release the lock. The stick handle can slide up or down to accommodate different sized hands.

## FLIGHT TOUCH DISPLAY - OVERVIEW



Located on the throttle module, the **Flight Touch Display (FTD)** combines real-time sim status indication\* with advanced customization with up to 39 extra button functions set to your configuration.

Navigation is by touch input and swipe gestures.

Default state of the screen is the settings page and a panel in combat style.

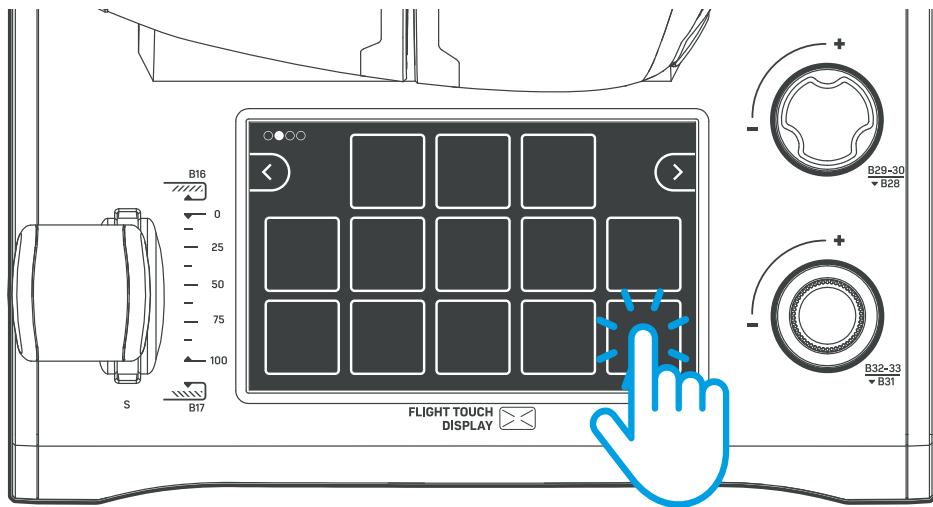
Settings available are:

- Navigation
- Home Screen defaults
- Settings
- Customisation

Customisation options using just the FTD are limited. For full customisation, use the VelocityOne Flight Hangar desktop software.

\*Some features implemented post-launch

## FLIGHT TOUCH DISPLAY - PANELS



**Flight Touch Display (FTD)** gives access to an array of virtual buttons, switches and wheels. Using the VelocityOne Flight Hangar desktop software it is possible to customize the theming of the panels and touch inputs, as well as assign different key bindings. Navigate between panels using the left and right arrows, and activate inputs with touch.

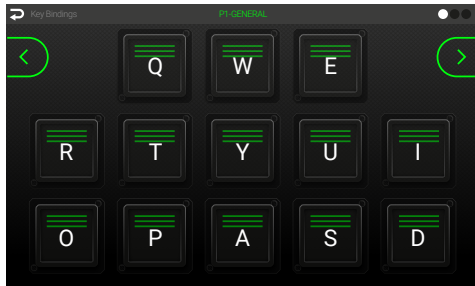
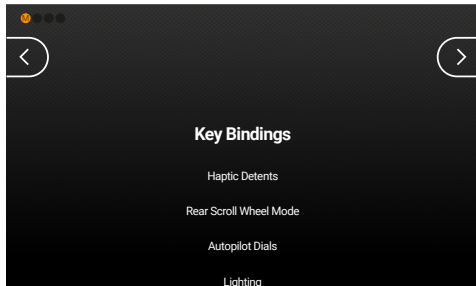
Available themes include:

- Combat (default)
- Space
- Commercial



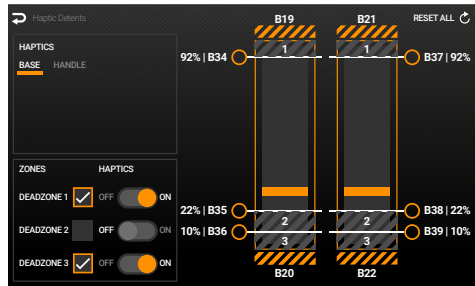
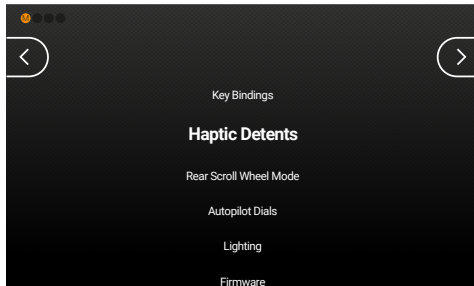
The FTD can display up to 3 panels, each consisting of a set of virtual buttons, switches or wheels. These touch inputs are assigned to keyboard inputs **Q W E R T Y** etc. These can be displayed using an overlay in the settings page of the FTD (**'Key Bindings'**) to determine which touch button is assigned to each virtual keyboard key.

## FLIGHT TOUCH DISPLAY - SETTINGS - KEY BINDINGS



Press the left on-screen arrow to access Flightdeck onboard settings, then select **Key Bindings** from the menu to access an overview of the system key bindings associated with each virtual button. Use the right and left on-screen arrows to view each panel and its bindings.

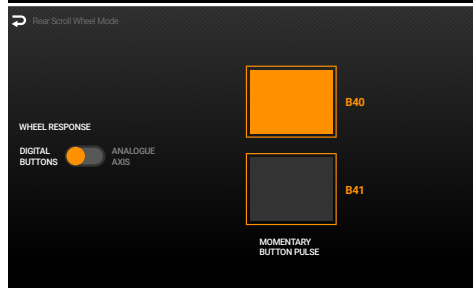
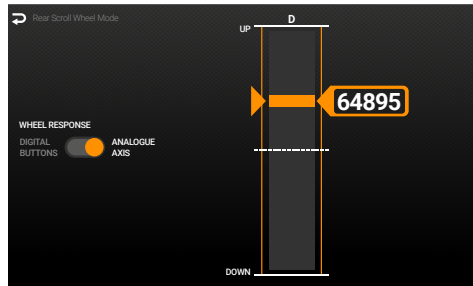
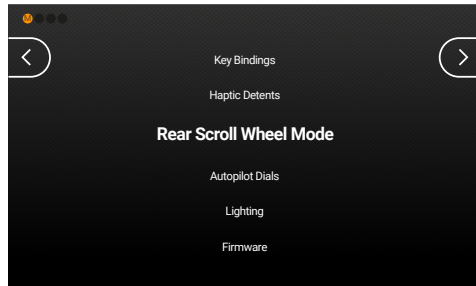
## FLIGHT TOUCH DISPLAY - SETTINGS - HAPTIC DETENTS



The VelocityOne Flightdeck throttle features optional virtual detent and deadzone control. A maximum of 5 detent zones can be enabled, with haptic feedback either through the throttle base or handles. 3 of these detent zones can be moved to any point along the travel of the throttle levers by dragging the sliders to the desired positions. When the throttle control passes through a set slider position, the corresponding button press will be momentarily activated.

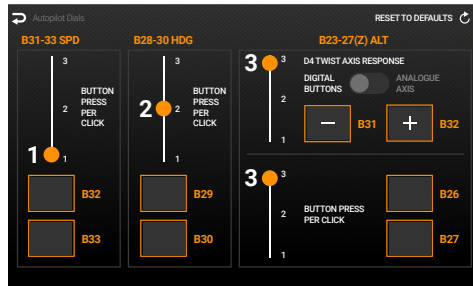
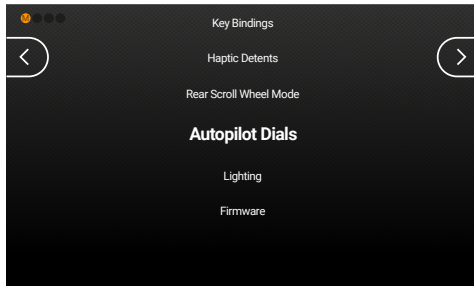
Deadzones and haptic feedback can be quickly toggled on and off.

## FLIGHT TOUCH DISPLAY - SETTINGS - REAR SCROLL WHEEL MODE



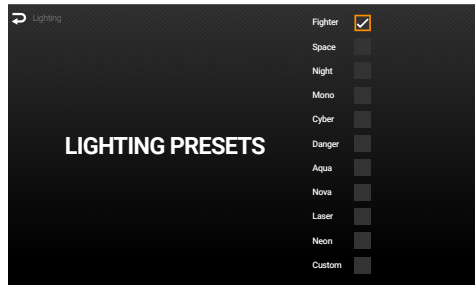
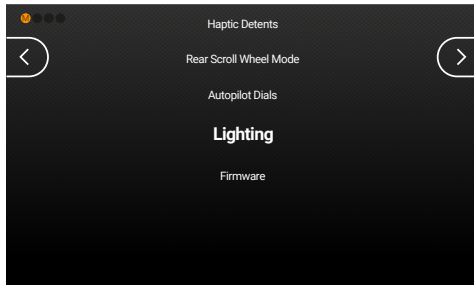
The Throttle Module rear scroll wheel response can be set to output as digital buttons or an analogue axis (**D B40-41**). When in digital mode, the button inputs will activate as a momentary pulse as the wheel is turned.

## FLIGHT TOUCH DISPLAY - SETTINGS - AUTOPILOT DIALS



**D4 Twist Axis Response** can be set to either a digital or analogue axis output. The autopilot dials can be configured to have multiple button presses, ranging from 1 to 3 outputs per click.

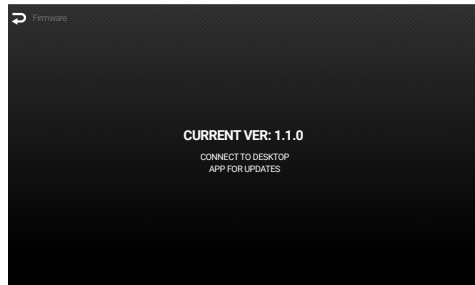
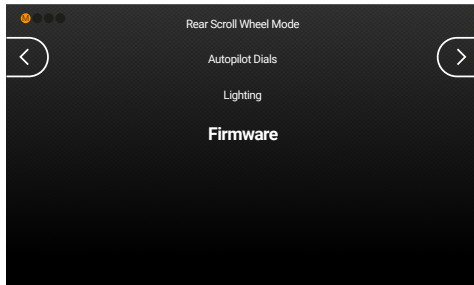
## FLIGHT TOUCH DISPLAY - SETTINGS - LIGHTING



Choose from preset lighting themes to be applied across both the throttle and stick. Create custom lighting settings in the VelocityOne Hangar Desktop App.

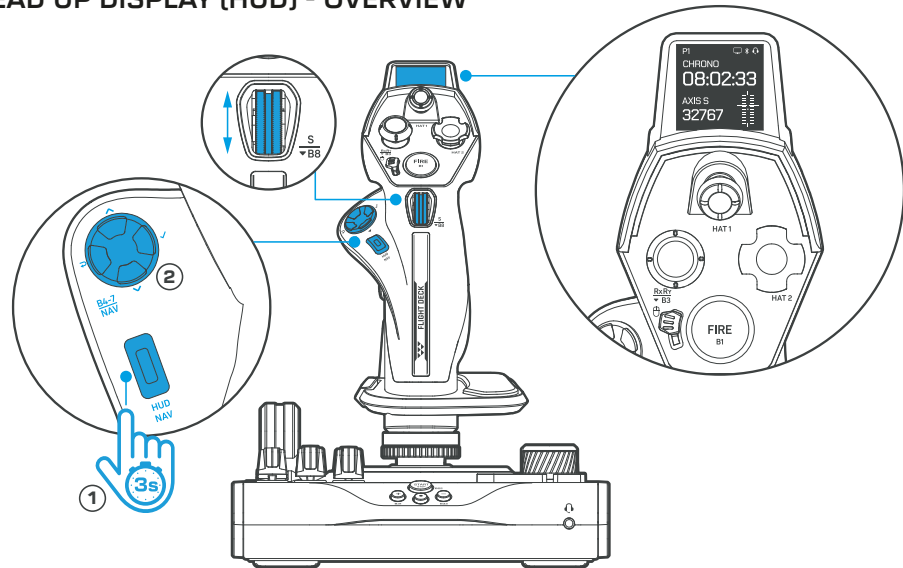


## FLIGHT TOUCH DISPLAY - SETTINGS - FIRMWARE



Check the current installed firmware version. Firmware updates are performed through the Hangar Desktop App.

## HEAD UP DISPLAY (HUD) - OVERVIEW



Located on the stick module, the full-color customizable **Head Up Display (HUD)** provides access to 2 chosen aircraft parameters, allowing you to effortlessly see key information on-the-fly.

By default the HUD displays Chrono timing and axis output information. The axis can be adjusted in real time using the thumb wheel 'S' located under the 'B1 FIRE' button. The Chrono function can be started, stopped and reset from within the main menu under '**CHRONO**'.

### To access the HUD menu

Press and hold the '**HUD NAV**' button ① for 3 seconds, then use the D-PAD directions ② to navigate the menu.

D-PAD controls are:

- ^ Up
- v Down
- ✓ Confirm
- ↶ Back

Settings available are:

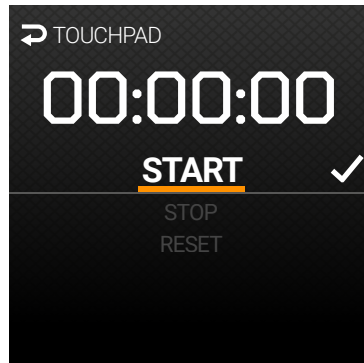
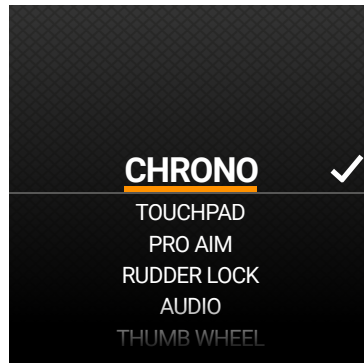
- Chrono
- Touchpad
- Pro Aim
- Rudder Lock
- Audio
- Thumb Wheel
- Haptics
- Performance
- Lighting
- Firmware

Press and hold the '**HUD NAV**' button ① for 3 seconds to exit the menu.

The theme of the HUD can also be changed using the VelocityOne Hangar desktop software. The available themes are:

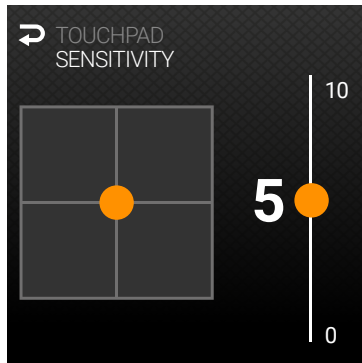
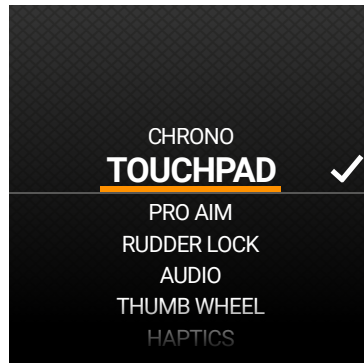
- Combat [default]
- Space
- Commercial

## HEAD UP DISPLAY (HUD) - SETTINGS - CHRONO



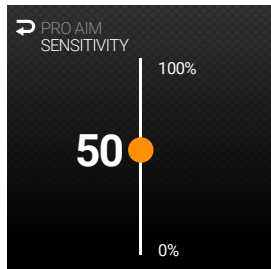
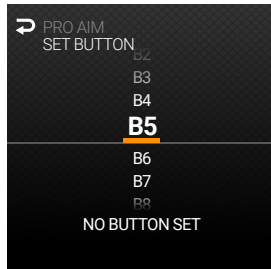
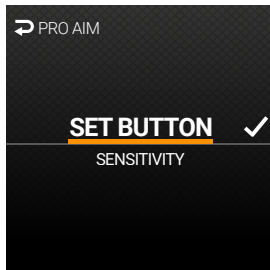
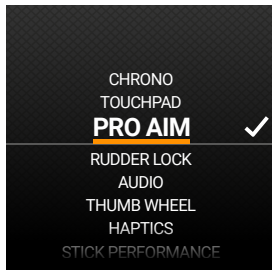
Set flight time information with the Chrono feature. Once started, exiting the menu by holding the **HUD NAV** button for 3 seconds will display the active chrono timer on the home screen as long as the Chrono panel has been applied to the HUD via the VelocityOne Flight Hangar desktop software. To stop or reset the chrono, re-enter the menu and use the on-screen controls.

## HEAD UP DISPLAY (HUD) - SETTINGS - TOUCHPAD



Adjust touchpad (**FIRE B1**) sensitivity values from 0 to 10. Touchpad functionality can be changed to button functionality by flipping the **orange mouse lock switch** next to the touchpad. Clicking the touchpad will replicate the left-click of a mouse, and B2 Trigger will replicate the right-click of a mouse.

## HEAD UP DISPLAY (HUD) - SETTINGS - PRO AIM

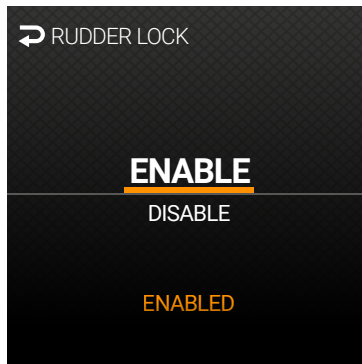
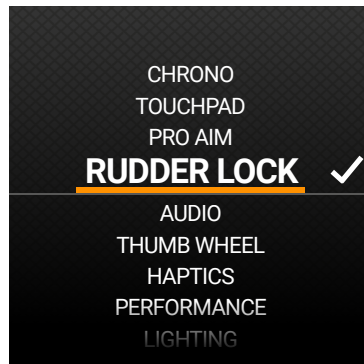


Integrated from our range of console controllers, the **Pro Aim** feature helps to temporarily reduce the sensitivity of the main stick axes. This is useful for making critical in-flight adjustments or honing your aim on an enemy fighter.

The **'Set Button'** option enables any of the listed programmable buttons to be set to initiate the Pro Aim feature. The assigned button must be pressed and held. Note that any previously assigned functions to the button will also be output at the same time as Pro Aim.

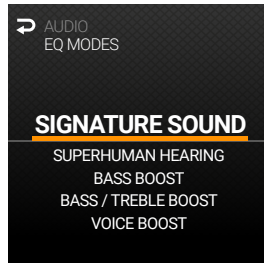
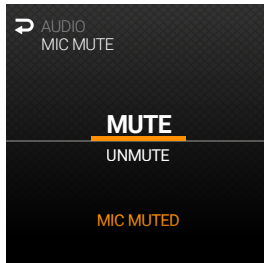
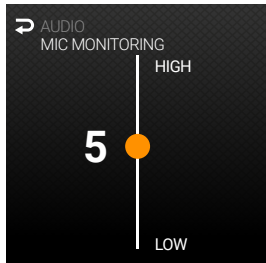
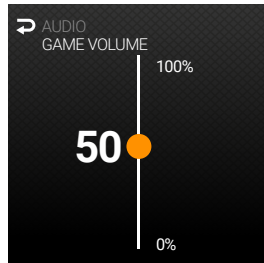
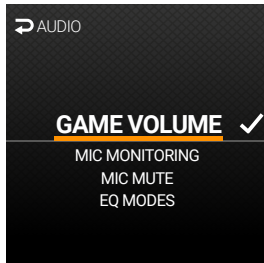
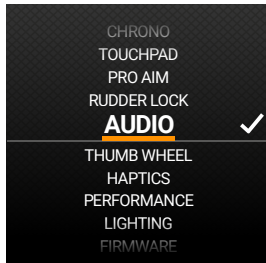
The **'Set Level'** option tunes the total reduction in sensitivity, when the assigned Pro Aim button is pressed. The higher the setting the larger the reduction in sensitivity across all axes.

## HEAD UP DISPLAY (HUD) - SETTINGS - RUDDER LOCK



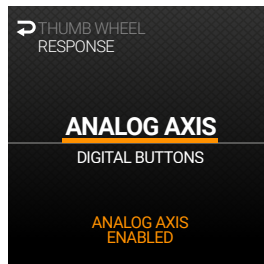
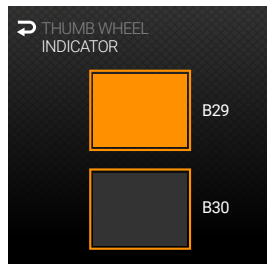
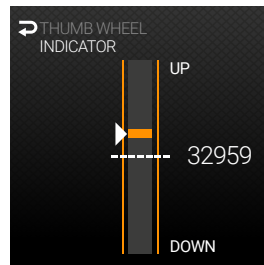
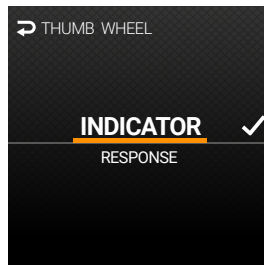
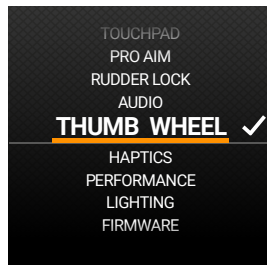
**Rudder lock** blocks the input from the twist action of the stick. This can be used in situations where yaw control is not required, or if the stick is being used in conjunction with a set of Rudder Pedals.

## HEAD UP DISPLAY (HUD) - SETTINGS - AUDIO



Adjust Game Volume, Mic Monitoring and Mic Status without pausing your flight. Enhance your experience by choosing one of 5 Turtle Beach Audio presets, including Superhuman Hearing.

## HEAD UP DISPLAY (HUD) - SETTINGS - THUMB WHEEL



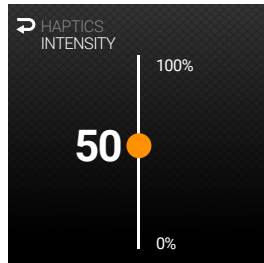
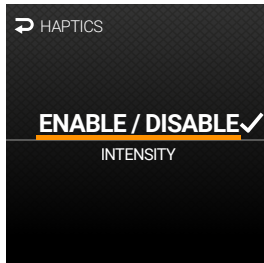
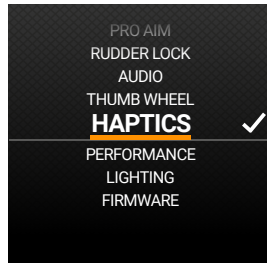
This feature gives you the ability get live feedback from the Thumb Wheel via the **Indicator** option and input preference via the **Response** option.

The Thumb Wheel comes in two versions:

- **ANALOG AXIS** – Gives precision control for aircraft that use wheel based trim controls.
- **DIGITAL BUTTONS** – The wheel will output a button pulse depending on what direction it is moved in. Ideal for aircraft that use button based trim controls, or for swapping between weapons and mining tools in space sims.

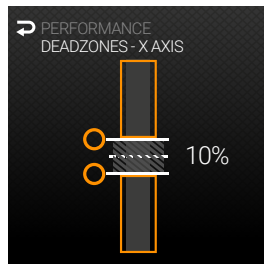
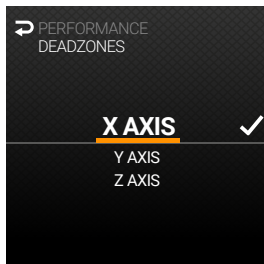
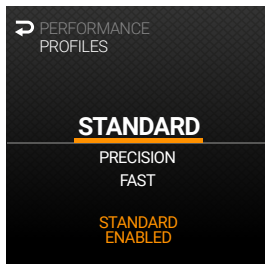
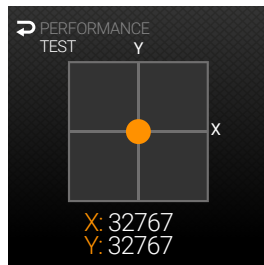
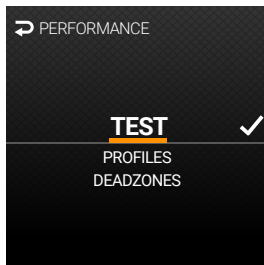
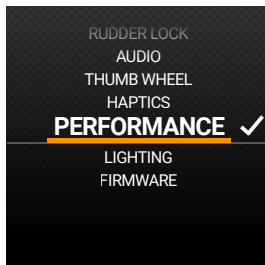


## HEAD UP DISPLAY (HUD) - SETTINGS - HAPTICS



Enable/disable and adjust the intensity of haptic feedback through the stick handle.  
Intensity ranges from 0% to 100%

## HEAD UP DISPLAY (HUD) - SETTINGS - PERFORMANCE



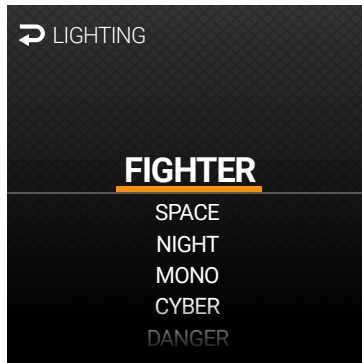
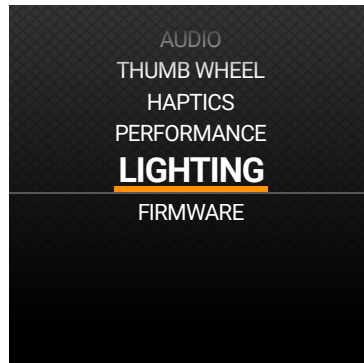
Performance gives you the ability get live feedback from the stick via the **Test** option, adjust axis response curves via the **Profile** option and set Axis deadzones via the **Deadzones** option.

Profiles come in three versions:

- **STANDARD** – Unaltered input data for true 1:1 control.
- **PRECISION** – Make fine adjustments with larger movements ideal for tense landings.
- **FAST** – Quick snappy movement ideal for arcade style control.

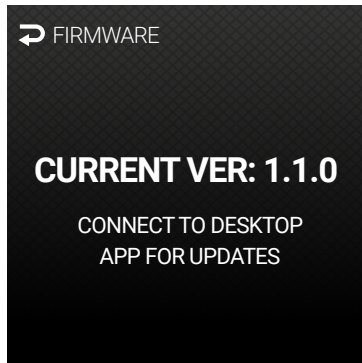
Deadzones can be individually set for the X, Y and Z axis.

## HEAD UP DISPLAY (HUD) - SETTINGS - LIGHTING



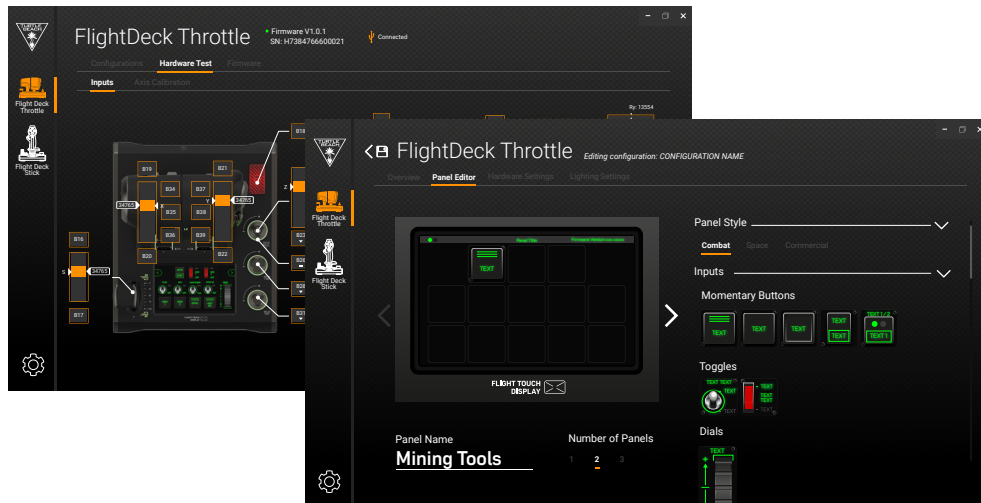
Customize the look of the product by selecting from a range of colour themes.  
Create custom lighting settings in the VelocityOne Flight Hangar Desktop App.

## HEAD UP DISPLAY (HUD) - SETTINGS - FIRMWARE



Check the current installed firmware version. Firmware updates are performed through the VelocityOne Flight Hangar Desktop App.

## SYSTEM SETUP - VELOCITYONE FLIGHT HANGAR DESKTOP APP



Access the full feature set of VelocityOne Flightdeck with the Flight Hangar desktop software. Available on the Microsoft Store, Hangar allows you to customize, update and change settings on the Flightdeck, such as:

- Create and swap configurations
- Customize, edit and create Flight Touch Display and HUD control panel layouts
- Adjust axis sensitivity and performance
- Assign Pro Aim functions
- Change lighting settings
- Input testing
- System calibration
- Manage firmware updates

These settings may also be accessed directly using the HUD menu on the Stick unit, and the Flight Touch Display on the Throttle unit. Firmware updates can only be performed through VelocityOne Flight Hangar Desktop Software.



# TURTLE BEACH™



Any questions? Des questions? For setup videos and more, visit [www.turtlebeach.com/support](http://www.turtlebeach.com/support) and look for **VelocityOne Flightdeck** in the **Simulation** category.

## Warranty information

For warranty information and service,  
please visit [www.turtlebeach.com/international-distributors](http://www.turtlebeach.com/international-distributors) .

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.

For complete details please visit [www.turtlebeach.com/international-distributors](http://www.turtlebeach.com/international-distributors) .

To make a warranty claim in Australia during the Warranty Period, Purchaser should contact the

VTB repair centre: **Tecworks International Pty Ltd, 13 Distribution Place, Seven Hills**

**NSW 2147, Tel: 1300 074 512**