
VelocityOne Flightdeck Production

1. summarize:

The product consists of a modular combat-style joystick and throttle system. Both parts will contain all the necessary control features to play a wide range of flight and space simulation games. The product features an enhanced smart OLED display system that will display key product performance data and allow end users to drill down into game configuration. The rest of the display will be implemented as input buttons, which can be customized with text, symbols and colors, and a more intuitive and clear button mapping configuration.

2. functional characteristics:

2.1 For PC: Windows8/10/11.

2.2 Quality materials and finishes for comfort and durability, design style with a combative look and feel.

2.3 Advanced components with precise input (aviation grade).

2.4 Separate USB connection rocker and throttle controller. Spindle and throttle controllers with.

2.5 HALL components increase accuracy and durability.

2.6 The rocker is removable and supports future upgrades.

2.7 Joystick part of the handle and base are equipped with high-quality/fidelity motor respectively. The motor is applied to enhance the feedback response of the game force, and the vibration intensity will change timely at any time in the game scene.

2.8 3.5mm audio connection port to allow the use of passive and amplified CTIA headsets. Both stereo audio and microphone audio streams will be supported and enhanced through audio MCUS, supporting customers' Super Human Hearing as well as bass enhancement.

2.9 The product supports the mouse pointer cursor function.

2.10 The joystick display includes user configuration and feedback functions to facilitate access and adjustment of the product through the configuration knob on the joystick

Settings are displayed on the screen. 2 user options for limiting spring axle wheel or rotating mouse wheel style control with points Click function.

2.11 The throttle controller is equipped with a dedicated touch screen display with customizable on-screen buttons.

2.12 Throttle controller supports Bluetooth BLE OTA firmware upgrade.

2.13 16 user programmable axis control:

Rocker (8): main rod axis x/y/z (1), front analog POV(2), roller (1); Brake shaft (1), cursor trackpad (1).

Throttle controller (8): rotating wheel, ALT knob, slider, throttle (2), flap lever, analog thumb POV (2).

2.14 65 user programmable buttons, including:

43 rocker controllers:

(4) 1×4 direction D-Pad(thumb rest)

(1) Press the button on the simulated POV

(8) 2×8 cap switch (upper front and right side front)

(1) Fire button: Standard button plus left button, depending on the selected mode into the switch ring. Strong drive, not trigger.

(2) Level 2 trigger.

(2) The spring toggle switch of the landing gear handle, the spring system prevents the lever from accidentally turning over when struck, and allows the lever to pull outward by 7mm.

(3) 1×3 position, fuel valve rotary switch, rocker seat (L, R, automatic switch).

(5) 5 standard programmable rubber film buttons.

(1) The "button" option of the rear push rod switches when the shaft is adjusted to the minimum value at the end of the trip.

(1) Pinky button.

(9) Base 3×3 switch, the top position of the leftmost switch is activated by the spring load, and all other positions are locked.

(4) There are 4 buttons in the game menu navigation (menu, Share, pause, etc.)

22 throttle controllers:

(6) Base : 2×2 Rotate the dial with a click, marked "HDG" and "SPD" clockwise increment sensing for the button press (0,1,). The counterclockwise increment is

perceived as the button pressed (0,1,0), the whole button pressed down from above, clicked, and felt as the button pressed (0,1,0).

- (5) Base: Rotate the dial in the direction of 1 x 4, marked "ALT", which is stacked by a large dial and a small dial. The clockwise increment is perceived as a button press (0,1,0). Counterclockwise increment sensing button press, (0,1,0). Push the top dial down from above, and the top dial clicks and senses as a button (0,1,0).
- (2) A protection button marked "FIRE" on the throttle base. 2 button function – Opening the glass cover protector activates the first button, pressing the button below the protector is the second button.
- (2) Two buttons behind the accelerator
- (4) HAT on index finger
- (1) Click the button to simulate POV
- (2) Trigger buttons at both ends of the push rod

3. product diagram:

3.1 Rocker face:



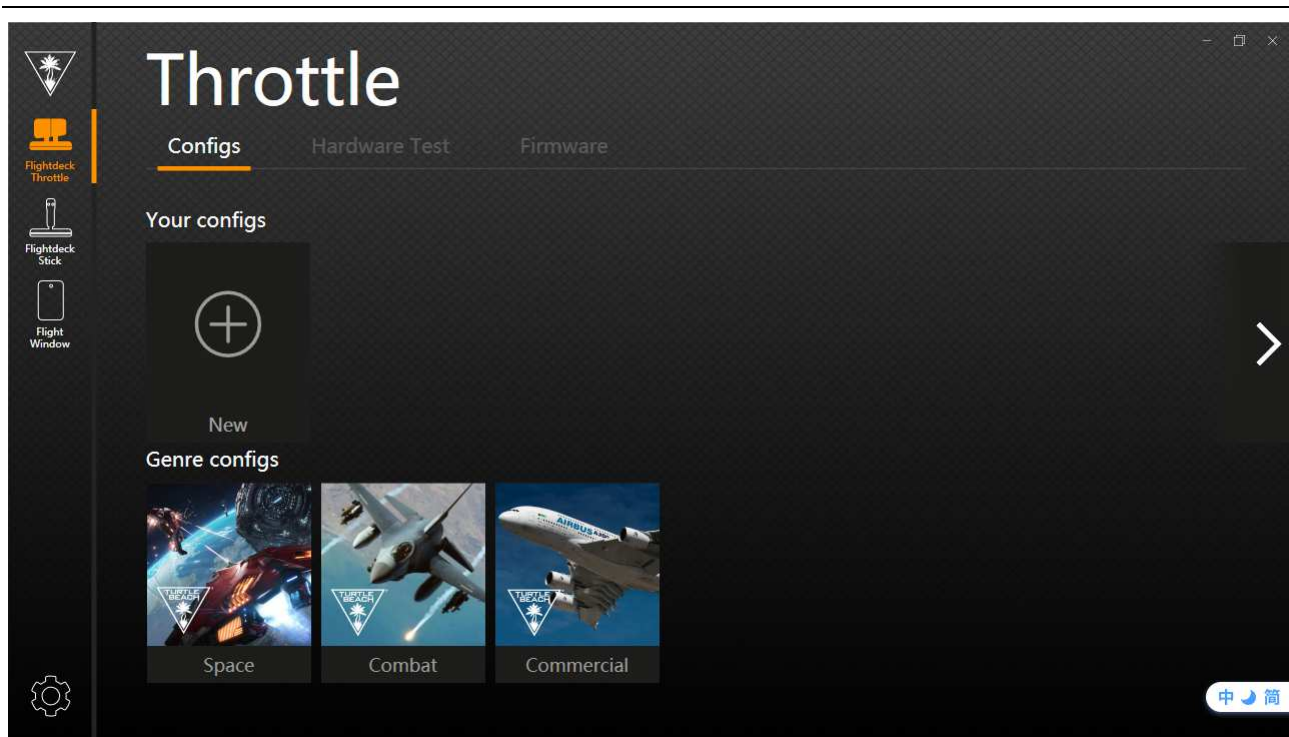


3.2 Product back icon:

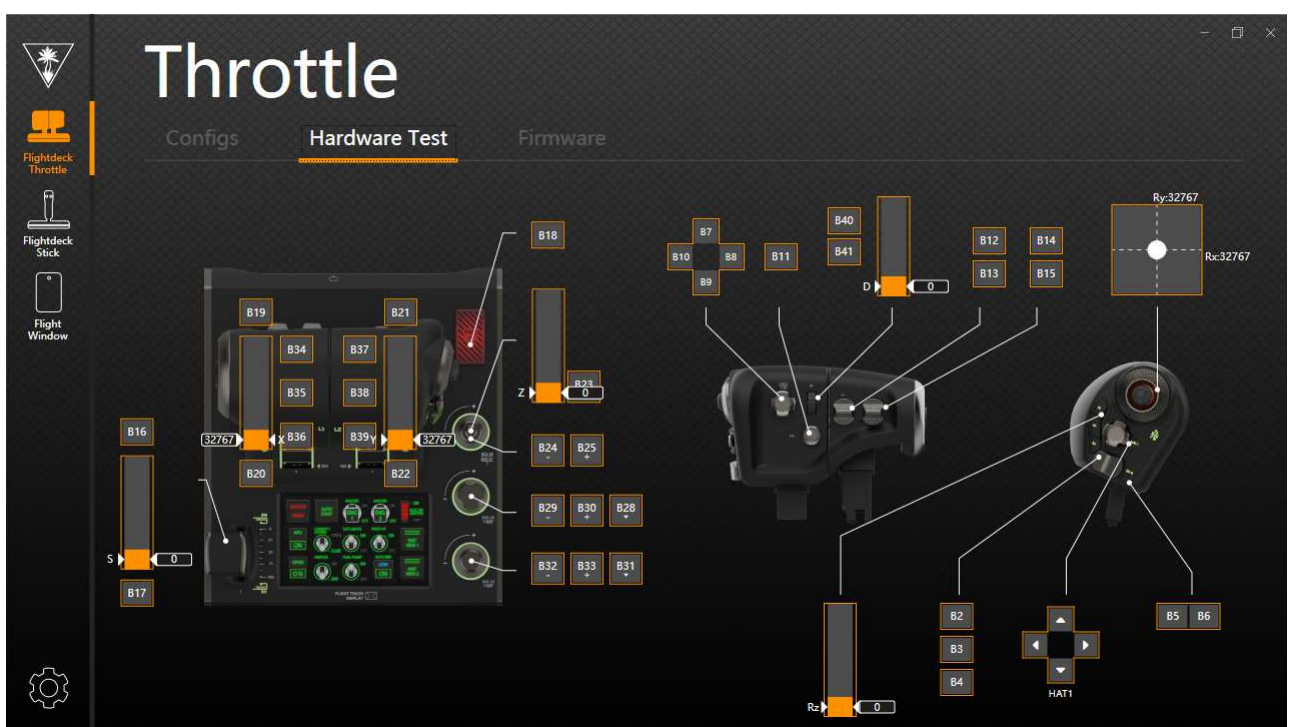


4. TEST

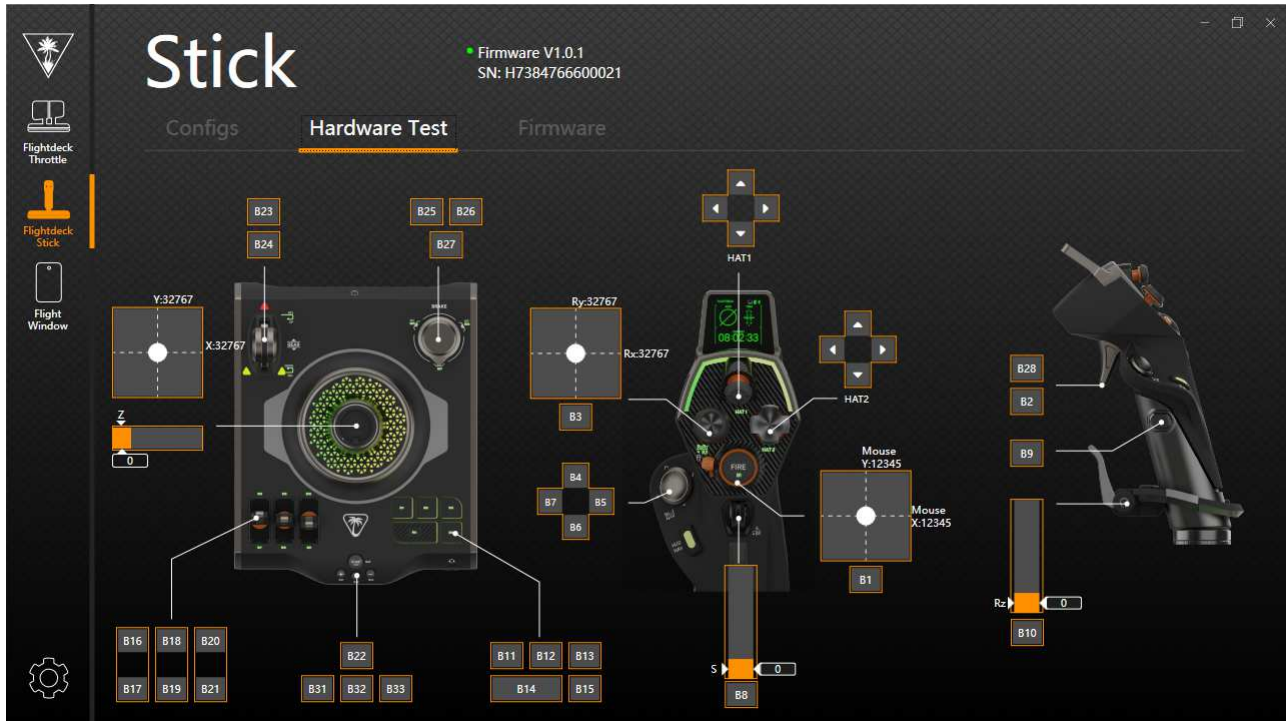
4.1 Open the test software as follows:



4.2 Press “Flightdeck Throttle” to test the throttle controller. The following screen is displayed



4.3 Press “Flightdeck Stick” to test the throttle controller. The following screen is displayed



Attention:

Type-c output port is only used for data transmission, not for output on-load.



RECYCLING

This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.

User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution:

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

The product is a low power device and its output power is lower than FCC SAR exemption level.

- **IMPORTANT NOTE:** In the event that this condition cannot be met (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID cannot be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.
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- **End Product Labeling**
- The final end product must be labeled in a visible area with the following: “**Contains FCC ID: XGB-FLIGHTDECK**”. The grantee's FCC ID can be used only when all FCC compliance requirements are met.
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- **Manual Information To the End User**
- The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the user’s manual of the end product which integrates this module. The end user manual shall include all required regulatory information/warning as show in this manual.

Industry Canada statement

- ❶ This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:
 - 1) this device may not cause interference, and

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- 2) this device must accept any interference, including interference that may cause undesired operation of the device.
- ❶ Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
- 1) l'appareil ne doit pas produire de brouillage, et
 - 2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
- ❷ This Class B digital apparatus complies with Canadian ICES-003.
- ❷ Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
- ❸ This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios.
- ❸ Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées.
- ❹ The County Code Selection feature is disabled for products marketed in the US/ Canada.
- ❹ La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.

Attention:

To avoid risk of fire, please just connect the product to an power supply of which output capability is less than 15W.

Portable device:

Radiation Exposure Statement: The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual.

The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Déclaration d'exposition aux radiations : Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non contrôlé.

Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible.

UKCA Conformity:

Radio Equipment Regulations 2017 (S.I. 2017/1206)

Operating frequency range: 2402–2480MHz

max power: -0.99dBm