

DEFENDER Cobra M5 USB joystick

Operation manual

General Information

Thank you for buying our gamepad! This product supports the PC platform and has the possibility of the plane control by four rotation axes and 23 buttons giving you the overwhelming superiority in the virtual air area. This product is supported by most of games and operating systems of Windows family. The product is based on M-Force™ magnetic-resistor technology guaranteeing high figures of accuracy and reliability of the device. Cobra M5 USB is created based on the recommendations of combat pilots of Russian Federation using the latest developments of ergonomics. You won't feel fatigue even after some hours of gaming.

Technical specifications

Connectivity: USB

Amount of axes: 4

Amount of buttons: 21+2 two ClusterFire™ triggers + 8-way view switch

Amount of combat modes: three (close combat, distance fighting and maneuvering)

Positioning type: No-contact magnetic M-Force™

Compatibility: Windows XP/Vista/7

Power supply: 5V through USB port

Weight: 1.5 kg

Package Contents

- Joystick
- Operation manual
- Warranty service coupon

Technical Requirement

- USB 2.0 port
- Window XP/Vista/Windows 7

Joystick Figure



1. Buttons 5, 6, 7, 8, 12, 13, 14, 15, 19, 20, 21, 22 (4 physical buttons and 8 virtual, the selection depends on the selected control mode).
2. 8-way D-pad.
3. Buttons 4, 11, 18 (the meaning depends on the selected control mode).
4. ClusterFire™ fold-back trigger for shooting with secondary weapon.
5. ClusterFire™ main trigger for shooting with primary weapon.
6. Buttons 3, 10, 17 (the meaning depends on the selected control mode).
7. Additional fold-back trigger (Wheel brake) corresponding to the buttons 9, 16, 23 (the meaning depends on the selected combat mode).
8. Tumbler of combat mode selection. The following modes are available: close combat, distance fighting and maneuvering.
9. Rubberized grip.
10. Special dust cover of soft rubber.
11. Engine thrust control wheel with soft motion.
12. Metallic base.

Software installation and device detection

This joystick was developed by using Plug & Play technology. Thus to install it no additional software is needed. Just connect the joystick to your PC through USB 2.0 port. Then the system will automatically detect a new gaming device.

WARNING! The device detection may take up to 1-2 minutes depending on your OS configuration.

WARNING! Operation through USB hubs is not guaranteed. Check the connection to the port directly located on the computer.

WARNING! The joystick may not be compatible with some models of laptops or other portable devices.

Joystick quick test

- To run system test in Windows XP system, enter Start menu, then “Control panel”, “Gaming devices”. Select the Defender Cobra M5 USB and press “Properties” button.
- To run system test in Windows Vista/7 system, enter Start menu, then “Control panel”,

“Gaming devices”. Select Defender Cobra M5 USB joystick, right click and select “Gaming Device Properties” menu, then select Defender Cobra M5 USB and press “Properties” button.

- By means of system tests you may:

1. Check the operation of all the joystick buttons (23 buttons). While pressing the button on the test page the button with corresponding number must light up.

WARNING! To check the operation of all 23 available virtual buttons switch the combat modes by the relevant tumbler. The buttons 24-26 are reserved in the Windows system for the tumbler modes. However they are not activated while switching the tumbler.

2. Check the operation of the joystick stick. Move the stick forward, back, to the right, to the left. The relevant block on the “Test” tab (axes X/Y) will show the cursor movement in the corresponding directions.
3. Turn the stick to the right or to the left horizontally. The red strip in the “Yaw” block will decrease or increase.

WARNING! The yaw sensitivity may be adjusted by the corresponding stick.

4. Check the operation of the view switch. The corresponding block on the “Test” tab must show the switch operation in 8 directions.

M-Force™ Technology

This gaming device is based on magnetic positioning technology that is special sensors react to changes in magnetic field, when moving the stick. Thanks to this technology we managed to avoid contact details in positioning mechanism. It allows to make the device amazingly accurate and durable and to avoid dead zones.

ClusterFire™ Technology

The joystick has two main triggers; each controls one of the primary weapon types. One trigger is fold-back. The essence of the technology is that due to special construction of the triggers the player may use this or that weapon or even both when the situation on the battlefield requires. Trigger 5 (primary weapon) has one press level, trigger 4 - two levels. Weak press activates the secondary weapons, harder press allow simultaneously usage of two weapon types (the player simultaneously press both triggers by one press).

Three combat control modes

Cobra M5 USB has the possibility to switch combat modes for more accurate plane control in the battle and on land. The player can switch the modes by the special tumbler. The following modes are available:

- Distance fighting
- Maneuvering
- Close combat

Depending the selected mode, 6 buttons and one trigger get various sets of executed commands. Thus the total amount of buttons is 21 + 2 ClusterFire™ triggers. Actually 9 buttons are available for the player in each mode. Below is the table of correspondence of the button depending the selected mode:

Distance fighting	Maneuvering	Close combat
1	1	1
2	2	2
10	3	17
11	4	18
12	5	19
13	6	20
14	7	21
15	8	22
16	9	23

WARNING! ClusterFire™ triggers have the same functional in any game mode.

WARNING! The player may customize every button as he wishes directly in the game. The joystick does not specify the buttons functional. This function just divides the set of 23 virtual buttons into three sets of 9 buttons available in each combat mode.

Important information on operation

Warning!

When receiving the product check its integrity and absence of any free-moving subjects. Do not expose the product to physical loading able to cause mechanical damage. If any mechanical damages, there is no warranty to the product.

Protect the product from humidity, moisture, liquids, vibration, exposure to high temperature and mechanical loading.

Keep and use the product in a dry room of 20-90% humidity, avoid conditions of condensation.

The standard temperature of storage and use of the product is +5 ... +40 ° C without condensation.

If the product was shipped under the temperature below freezing, leave it to be heated in a warm room (+16-25°C) for 3 hours before using it.

Do not open the product. This product does not contain any particles subject to self-repair. If any questions on maintenance or replacing any defective product refer to the company-seller or to the DEFENDER authorized center.