Engravity
737NG CDU

Congratulations on the purchase of your Engravity 737NG CDU. This unit is designed to work with Project Magenta software in conjuction with Microsoft Flight simulator. Before starting, we advice to read this document very carefully. Please follow the guidelines as described in the manual, before connection your CDU to your PC.

We hope your enjoy your CDU and wish you many happy hours of flying.

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Contents

Before unpacking check if the following items are included in the box.

The box contains;

    A. CDU/FMS
    B. 12V Adapter
    C. USB-cable
    D. Instruction CD

If for some reason one of these parts are missing, please send an email to sales@737cockpit.com. Please mention the serial number, date of purchase and name of reseller.

Warranty

The CDU comes with a full year of warranty on all technical parts.
The CDU should only be used with the supplied 12V adapter. The electronics are protected by a housing and should not be removed.
Note that when the CDU is removed from its housing, for instance if the unit is build in a 737 setup, the warranty will void.

Warranty can only be given when the unit is used for personal use in hobby environment under normal conditions.

In case of a technical defect, contact 737cockpit, by sending an email to **support@737cockpit.com**, describing your defect.

System requirements

before using your CDU the following is required;

- a registered version of Project Magenta Software
- in case a second CDU will be installed, the additional F/O version of Project Magenta is also required
- a free USB-port
- AC mains connection for DC Adapter (100-240V AC,DC Output 12V 15W)

Description of parts

5" LCD Display

LSK keys

Keypad

RSK keys

Knob for adjusting back-

Execute led

Annunciators

Housing for electronics

12V adapter input

USB connection

Installation

STEP 1

The CDU will be connected through a USB port.
Before connecting the CDU to your PC, install the USB_RS232 driver.

The driver can be found on the CD labeled as **CP2101_drivers**.
Follow the instructions during installation.

After installation of the driver, connect the USB-cable from your computer to the CDU and power up the CDU by using the supplied adapter.

The CDU will come up as an extra COM port. *(You can later change this COM-port number to another value if necessary or if conflicts occur. See for details step 3)*

The default baudrate is 38400

STEP 2

Install the latest update from Project Magenta.

This can be found on **www.projectmagenta.com**.

Go to updates page and download the latest **Boeing style CDU update**.
Follow the instructions.

STEP 3

Check COM port settings

Finally check the COM port settings on your PC and in the CDU.INI file from Project Magenta.

Click on   **Start**
Open   **control pane**l
Click on   **System - hardware - device manager**

Check the CDU COM port number in ports (COM&LPT)

Go to the PM directory and localise the **CDU.INI** file

Open the file and check if **EngravityComm= (X)** has the same port number. If not change the (X) to the correct port number and save the file.

After completing these steps your CDU is now ready for use !

How to use your CDU

737cockpit has not include a manual of how to operate your CDU. On the internet there are many sources available on how to program a CDU.

After powering up your CDU the lights will come up and a startup screen will appear. The screen will then go blank, indicating that the CDU is in a standby mode and ready for retreiving information from Project Magenta.

You can select and adjust your personal settings in a special user menu.

Press the **S+EXEC** buttons simultaneously to enter the personal user page.

Now your see that, next to the LSK- and RSK keys, there are several options for adjusting personal preferences. Use the keypad to enter the values. The changes will appear in the scratchpad. press the corresponding LSK/RSK keys to confirm the changes.

LSK1 LCD contrast	Here you can adjust the contrast settings. A value between 0-100 (%) can be entered **Default = 50%**
LSK2 LCD Backlight Adjust	Select (on) if you want the backlight of the LCD be controlled by the rotary switch placed above the exec. light. In this case both lcd back light and key backlight are regulated at the same time. Select (off) if you do no want to regulate the LCD backlight manually. **Default = on**
LSK3 Key click	You can choose if you want to hear a keyclick when pressing the keys on the CDU. A value of 0-10 is available, where 0 stands for off and 1 - 10 stands for the lenght of the keyclick. **Default = 1**

LSK4 Baudrate	The default value is 38400. **DO NOT CHANGE THIS VALUE FOR USE WITH PROJECT MAGENTA**
RSK1 CDU-type	Default is GENERIC. **DO NOT CHANGE FOR USE WITH PROJECT MAGENTA**
LSK6 exit setup	Press to exit the user page and return to normal operation mode

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Firmware update

The CDU is designed to allow future firmware updates.
In this case we can ensure that your CDU will keep up to date and allow the cdu to be used for other types of aircraft in the future aswell as other software programms.

The procedure for updating the firmware is very simple.
In case a firmware update is necessary, an announcement will be made on the www.737cockpit.com website.

Disclaimer

This product is made for use with flight simulation and should in no case be used in real aviation.
Engravity and her associated partners except no resonsibility for the misuse of this product.
This product should only be used in a flight simulation environment and is intended to be used for hobby purposes only.
The term "product" means the 737NG CDU.

The names Boeing, Microsoft, Project Magenta are registered trademarks owned by the there respective owners

The names Engravity, 737cockpit.com and information such as text and pictures, may not be used by third parties in any form, written, electronically or printed, without explicit approvement in writing to Engravity.

This product is sold for personal use, It may not be resold to third parties as a commercial activity, neither as parts or as part of a commercial flight simulator not produced by Engravity without written approvement.

A 1 year warranty is given on the products electronics. All products are being tested prior to shipping.
The warranty provided by Engravity and her associated partners apply only for your use, and not for resale, from Engravity or your reseller. The warranty does not cover the repair or exchange of a product resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by the user, or failure caused by a product for which Engravity is not responsible. Engravity and her associated partners will not be responsible for misfunction of the product due to software changes and updates made by third parties which causes conflicts with the use of the product. The warranty is voided by removal or alteration of the product or parts indentification labels.

In case the product needs to be repaired, an email should be send to support@737cockpit.com.
The nature of the problem should be described aswell as the serial number, date of purchase and name of reseller.
Shippingcosts for the product for warranty are never included in the warranty. Shipping costs towards Engravity as well as shipping to the customer will be paid by the client. Engravity is allowed to require a pre-payment of returning shipping costs in advance.

By using the product you accept the terms and conditions mentioned above.