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Link do produktu: <https://www.nobshop.pl/nadajnik-wideo-vtx-mamba-ultra-1000-m3-p-3157.html>



## Nadajnik wideo VTX MAMBA Ultra 1000 M3

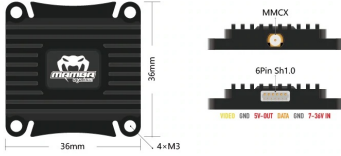
Cena brutto	<b>159,99 zł</b>
Cena netto	<b>130,07 zł</b>
Dostępność	<b>Aktualnie niedostępny</b>
Czas wysyłki	<b>1 - 3 dni</b>
Kod producenta	<b>JH60301</b>
Kod EAN	<b>JH60301</b>
Producent	<b>DIATONE</b>

Opis produktu

# ULTRA 1000

## User's Manual

### Wiring Diagram



Port	Definition	Wiring	Port	Definition	Wiring
7-36V IN	7-36V DC input	Connect to the 7-36V output	DATA	VTX IRC Signal in	Connect to the UART TX port of FC. Switch on the IRC protocol to control the Channel, Band, and Power of the VTX via OSD
5V-OUT	5V/3A(Max) Power output	5V power supply for other devices	VIDEO	Video in	Connect to the Video Output of FC
GND	Ground wire	Connect to the power ground wire			

### Basic Setting

Connect Tiny Ultra to the UART TX port of FC. Switch on the IRC protocol to control the Channel, Band, and Power of the VTX via OSD

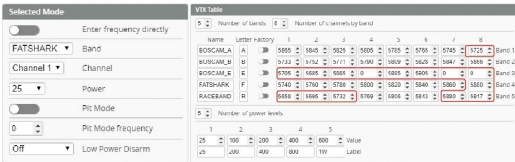
#### Follow the steps to set the VTX control (For Betaflight)

1. Connect the FC and VTX according to the diagram. Switch on the "OSD" function  
 ⚠ The antenna must be properly installed (Power on the VTX without the antenna may cause damage to the VTX)

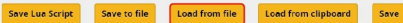


2. Switch the correspondingly UART "Peripherals" → "VTX (IRC)" function

3. Make settings as follow in "Video Transmitter" page



Or download "Ultra 1000.json", click "Load from file" and choose the file to load.



- Caution:**
- Channels marked red require a HAM certificate. Please fill in "0".
  - or load "Ultra no ham.json" if you are not authorized.
  - Some frequencies and transmitting power may violate local laws in some countries or regions. Please use them according to the actual situation.

4. Reboot the FC when complete setting.

### Channel/Power Adjustment

1. Make sure the VTX has been connected and to FC and set correctly.
2. Power on the VTX and FC, turn on video receiver and transmitter.
3. Search for the current VTX channel by video receiver.
4. Move the stick as follow: THROTTLE MID+YAW LEFT+YAW RIGHT UP to enter OSD menu.
5. Switching PITCH up/down to choose menu option. Move the cursor to "FEATURES" and stir Roll stick right to enter "VTX" menu.
6. Move the cursor to "SET", ROLL stick right to enter "SET" and choose "YES" to save the settings. The VTX will switch to the chosen channel.
7. Adjust the VTX receiver to current channel.
8. Save & Exit the OSD menu.



⚠ Disable ITC trump in betaflight Configuration enable onboard control button.

**Default Setting:**  
 The VTX has been set to 5740 and 25mW as default. The FREQs marked by red are locked (frequency table below). Please unlock the VTX by following steps for full functions. Unlocking the VTX may cause legal risks. The company is not responsible for the risks.

- **Unlock:**  
 Press and hold 15 seconds to lock/unlock all FREQs and power  
 Locked: R1 LED (red) stays on  
 Unlocked: R1 LED (red) flashes
- **Pit Mode:**  
 The power level will be set to 3mW when pit mode on. The VTX can be set almost without affecting others.  
 Activate pit mode:  
 1. Double click the button to activate Pit mode (Red R1 led off)  
 Double click again to deactivate pit mode  
 2. Activate pit mode in OSD menu

- **LED Indication:**  
 Band: Flashing indicates of the blue LED (FR) shows the current band  
 FREQ: LED indications of green leds (C1/C2/C3) shows the current frequency  
 Power level: Flashing indications of the red LED (R1) shows the current power level



- **Vtx setting**  
 Band setting: Press and hold for 2 seconds to enter band setting (Only blue led flashes), then short press to change the band  
 Freq setting: Short press to change the Freqs

- **Power setting:**  
 25/200/400/800/1000mW are available for the VTX. Please set according to the actual environment, laws and regulations  
 Press and hold for 6 seconds to enter Power Level setting (Only red R1 led flashes), then short press to set the power level. Setting parameters will be saved automatically after standing for 5 seconds.

### Freq Table

FR(C)	Frequency Table (MHz)							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
R	5658	5695	5732	5769	5806	5843	5880	5917

- Caution:**
- Channels marked red require a HAM certificate.
  - Some frequencies and transmitting power may violate local laws in some countries or regions. Please use them according to the actual situation.

### Specifications

- Voltage: 7-36v
- Current: 450mA (12v/1000mW)
- Working Temp: -10~60°C
- Input impedance: 75Ω
- Weight: 14.5g
- Size: 36mm×36mm×6.5mm
- Mounting: 30.5×30.5/M3
- Antenna connector: MMCK
- Video format: NTSC / PAL
- Power: 25mW/200mW/400mW/800mW/1000mW
- Control protocol: IRC

### Features

- High power and stable output, long range transmit;
- 5 available transmit power level: 25mW/200mW/400mW/800mW/1000mW;
- No sweeping when powering on;
- Self-check when powering on;
- Support NTSC/PAL;
- Wide range voltage input and low power consumption: 7V~36V, +12V/450mA@1000mW;
- CNC shell, protect the VTX, high efficiency radiating, stable transmit power;

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Specification:

Working Voltage:7- 36V

Working Current: **450mA (12V/1000mW)**

Working Temp: -10~60 °C

Video Input Impedance:75Ω

Size: 36×36×6.5mm

Antenna Connector: MMCX

Video Format: NTSC / PAL □□□IRC

Output Power: **25mw/200mw/400mw/800mw/1000mw/**

Supply :

MMCX -SMA feeder×1

6pin wire×2