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	**159,99 zł**
Cena netto	**130,07 zł**
Dostępność	**Aktualnie niedostępny**
Czas wysyłki	**1 - 3 dni**
Kod producenta	**JH60301**
Kod EAN	**JH60301**
Producent	**DIATONE**

Opis produktu

DIATONE

ULTRA 1000
User's Manual

Wiring Diagram

36mm
36mm
4×M3

MMCX

6Pin Sh1.0

VIDEO GND 5V-OUT DATA GND 7-36V IN
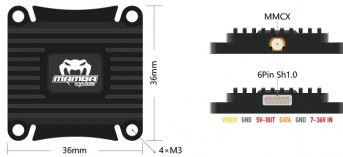
Port	Difinition	Wiring		Port	Difinition	Wiring
7-36V IN	7-36V DC Input	Connect to the 7-36v output		DATA	VTX IRC Signal in	Connect to the UART TX port of FC. Switch on the IRC protocol to concrol the Channel, Band, and Power of the VTX via OSD
5V-OUT	5V/1A(Max) Power output	5V power supply for other devices				
GND	Ground wire	Connect to the power ground wire		VIDEO	Video in	Connect to the Video Output of FC

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

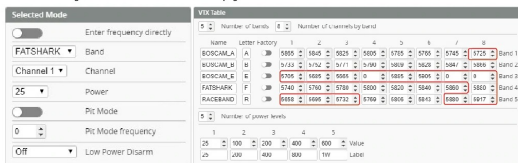**Follow the steps to set the VTX control (For Betaflight)**

1.Connect the FC and VTX accroding to the diagram. Switch on the "OSD" function

⚠ The antenna must be proper installed (Power on the VTX without the antenna may cause damage to the VTX)

UART3 115200 Disabled ▼ AUTO ▼ Disabled ▼ AUTO ▼ Disabled ▼ AUTO ▼
Disabled
Blackbox logging
VTX (TBS SmartAudio)
VTX (IRC Tramp)
Camera (RunCam Protocol)
Benewake LIDAR

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

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

Selected Mode

Enter frequency directly
FATSHARK ▼ Band
Channel 1 ▼ Channel
25 ▼ Power
Pit Mode
0 Pit Mode frequency
Off ▼ Low Power Disarm

VTX Table

5 Number of bands 8 Number of channels by band

Name	Letter	Factory	1	2	3	4	5	6	7	8	
BOSCAM_A	A		5865	5845	5825	5805	5785	5765	5745	5725	Band 1
BOSCAM_B	B		5733	5752	5771	5790	5809	5828	5847	5866	Band 2
BOSCAM_E	E		5705	5685	5665	0	5885	5905	0	0	Band 3
FATSHARK	F		5740	5760	5780	5800	5820	5840	5860	5880	Band 4
RACEBAND	R		5658	5695	5732	5769	5806	5843	5880	5917	Band 5

5 Number of power levels

	1	2	3	4	5	
	25	100	200	400	600	Value
	25	200	400	800	1W	Label

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

Save Lua Script   Save to file   Load from file   Load from clipboard   Save

⚠ **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+PITCH 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.

⚠ Please disable irc trump in betaflight Configuration enable onboard control button.

Default Srtting:
The VTX has been set to 5740 and 25mW as deafult. 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 activatePit 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 indicates of the red LED (R1) shows the current power level

R1 C1 C2 C3 FR KEY

● **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.

Treq Table

Frequency Tablt(Mhz)

CH / FR(C4)	CH1 ○○○ C1 C2 C3	CH2 ●○○	CH3 ○●○	CH4 ●●○	CH5 ○○●	CH6 ●○●	CH7 ○●●	CH8 ●●●
A 1 Time	5865	5845	5825	5805	5785	5765	5745	5725
B 2 Times	5733	5752	5771	5790	5809	5828	5847	5866
E 3 Times	5705	5685	5665	5645	5885	5905	5925	5945
F 4 Times	5740	5760	5780	5800	5820	5840	5860	5880
R 5 Times	5658	5695	5732	5769	5806	5843	5880	5917

○ off   ●●● on   flash

⚠ **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℃
● Input impedance: 75Ω
● Weight: 14.5g
● Size: 36mm×36mm×6.5mm
● Mounting : 30.5×30.5/ M3
● Antenna connector: MMCX
● 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;

Specification:

Working Voltage:7- 36V
Working Current: **450mA (12V/1000mW)**
Working Temp: -10~60 ℃
Video Input Impedance:75Ω
Size: 36×36×6.5mm
Antenna Connector: MMCX
Video Format: NTSC / PAL □□□IRC
Output Power: 2**5mw/200mw/400mw/800mw/1000mw/**

Supply :

MMCX -SMA feeder×1
6pin wire×2