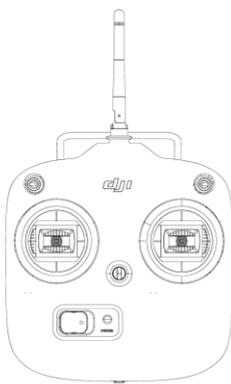


DT7&DR16 2.4G RC System User Manual V1.00

Congratulations on purchasing your new DJI product. Please read this manual carefully to ensure you can get the most out of it.



DT7 Remote Controller



DR16 Receiver

In the box

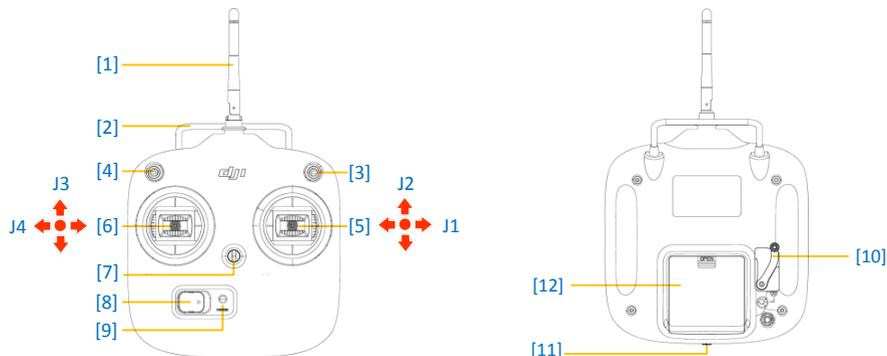
DT7 Remote Controller, DR16 Receiver, 3-Pin cable.

Required Items

4 AA batteries, Micro-USB cable, flight control system, multi-rotor etc.

DT7 Remote Controller

The DT7 remote controller is a wireless communication device using the 2.4GHz frequency band. It is only compatible with the DR16 receiver.



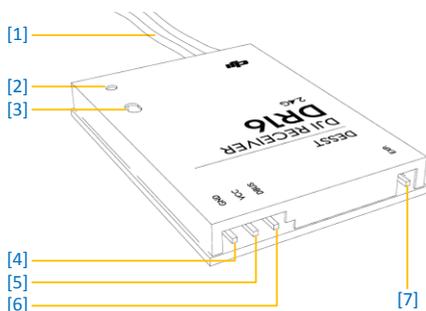
[1] Antenna [2] Carrying Handle [3] 3-Position Switch S1 [4] 3-Position Switch S2 [5] Stick1 (J1;J2)

[6] Stick2 (J3;J4) [7] Neck Strap Attachment [8] Power Switch [9] Power LED Indicator

[10] Slide Lever [11] Micro-USB Port [12] Battery Compartment

DR16 Receiver

The DR16 is a 16 channel receiver working at the 2.4GHz frequency band. It is compatible with the DT7 remote controller.



- [1] Antenna
- [2] LED Indicator
- [3] Link Button
- [4] GND
- [5] VCC
- [6] DBUS
- [7] EXP.

Default Channel Mappings of DT7&DR16

MODE 1	A	J1
	E	J3
	T	J2
	R	J4
	U	S1
	X1	Slider Lever
	X2	S2

MODE 2	A	J1
	E	J2
	T	J3
	R	J4
	U	S1
	X1	Slider Lever
	X2	S2

Usages of the DT7 Remote Controller

Turn on the remote controller

1. Open the battery compartment on the back of the remote controller.
2. Install 4 AA batteries into the compartment according to the signs of negative and positive poles.
3. Push the power switch to the right to power on the remote controller. If the power LED indicator is solid red, the remote controller is functioning normally.
4. The remote controller 's antenna should point skywards without obstructions for maximum communication range during flight.

Turn off the Remote Controller

Push the power switch to the left to power off, the power LED indicator will be out and the remote controller will be turned off.

Important Notes

- Turn on the remote controller before powering on the aircraft. Power off the aircraft before turning off the remote controller.
- Avoid interferences between the remote controller and other wireless equipment.
- Remove batteries from the remote controller before long term storage.
- Ensure batteries in the remote controller have enough capacity before every flight.
- Dispose of batteries according to their instructions.

Remote controller Power LED Indicator Status Information

Power LED Indicator	Sound	Remote Controller Status
	None	Normal
	B-B-B.....	Low voltage (at 4V-4.3V). Replace the batteries immediately
	B--B--B.....	Alarm will sound after 15 minutes without activity. It will stop once you start using the remote controller.

Important: The remote controller will power off automatically when battery voltage drops below 4V. Land and change batteries as soon as possible when the low voltage alert occurs to avoid loss of control during flight.

Connecting the DR16 Receiver to the Flight Control System

The DR16 Receiver is designed to be used with the below flight control system. Connect the DR16 receiver to the correct port on the main controller in the flight control system using a 3-Pin cable, then select the **D-BUS** receiver type in the Assistant software.

Flight Control System	NAZA-M Lite	NAZA-M	NAZA-M V2	WooKong-M	A2
Port on the Main Controller	X2	X2	X2	X2	X2

Linking the DT7&DR16

1. Power on the main controller and the DR16 receiver.
2. Turn on the remote controller and place the remote controller 0.5m-1m from the receiver.
3. Poke the link button with a thin object and hold it until the LED indicator on the receiver blinks red, then release it.
4. When the LED indicator becomes solid green, the link between the DT7 remote controller and the DR16 receiver has been successfully established.

The LED Indicator Status of DR16

LED Indicator	Status
	The remote controller is linked with the receiver successfully
	The remote controller is turned off and there is no 2.4GHz signal around
	The receiver is ready for linking
	There is 2.4GHz signal around but the remote controller is not linked with the receiver

Usages of the RC SYSTEM Assistant software

The RC SYSTEM assistant software is used to configure the DT7 remote controller, upgrade its firmware, select the sticks mode and calibrate the sticks.

Download & Installation & Connection

1. Download the driver and RC SYSTEM Assistant software, then install the driver and software on your PC.
2. Turn on the remote controller and connect it to the PC by Micro-USB cable.

3. Run the RC SYSTEM Assistant software. Wait for the remote controller to connect to the Assistant software. When the connection indicator is solid green  and the communication indicator blinks blue , it has connected.



Firmware Upgrade

1. On the [Info] page, click **Latest version** to download and install the upgrade following prompts.
2. Power cycle the remote controller after finishing the upgrade. Check the firmware version on the [Info] page, if Assistant software shows the latest version, upgrade was successful.

Stick Mode Configuration

1. Select your custom control mode in the Stick Mode bar on the [Main] page.
2. Power cycle the remote controller, push both sticks and observe whether the cursors in the respective channels are moving. This will confirm stick mode configuration.

Sticks Calibration

1. On the [Main] page, click the “Calibration” button to calibrate the sticks following prompts.
2. Calibrate the remote controller after every firmware upgrade or configuration, and calibrate on a regular basis.

DT7&DR16 Specifications

DJI DESSET 2.4G SYSTEM	
Operating Frequency	2.4GHz ISM
Communication Distance (open area)	1000m
Remote Controller	
General	2-stick, 7-channel
Working Current	100mA@6V
Battery Required	4 AA Batteries
DJI Receiver 16	
General	2.4GHz D-BUS System
Receiving Sensitivity (1%PER)	-97dBm
Working Current	145mA@5V
Power Supply	4-8.4V
Size	41mmX29mmX5mm
Weight	10g