



**ZeroDelay Full-HD digital video
transmission system**

NEXG1 T

USER MANUAL

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Content

1. Easy way to start the device.....	1
1.1 Operating steps and instructions.....	1
2. Specification.....	2
3. Introduction	3
3.1 Disclaimer	3
3.2 Profile.....	3
3.3 Intended usage.....	3
3.4 Caution	3
4. Module Port definition.....	5
4.1 port	5
5. Contact info.....	7

1. Easy way to start the device

1.1 Operating steps and instructions

1.1.1 Transmitter

- Install the antennas.
- Install the camera.
- Connect transmitter to the power.

There should be below instructions if the transmitter works well.

After 15 seconds of power on, the WORK light will display the breathing effect, and the WORK light will loop from on to off on display.

CAM light turn-on.

LINK light turn-on if the transmitter connect to receiver.

The Transmitter is Module, is use for outdoor, not a portable device.

2. Specification

Here list the detailed specification about NEXG1 T , as shown in Table 2.1.1.

Table 2.1.1 List of specification

Function specification	
Communication distance (outdoor, no obstruction)	≥400m
Effective Radiated Power (EIRP)	>10mw
Receiving sensitivity	-95dbm±2dbm
Operating frequency	5200MHz
Physics specification	
Operating Temperature	-10~60°C
Storage Temperature	-20~50°C
Size (Include shell, no antenna)	L.70mm×W. 36 mm×H.10 mm
Weight (Include s hell, no antenna)	16g
Hardware function support	
Transmitter working voltage	DC-12V

3. Introduction

3.1 Disclaimer

Thanks for purchasing the NEXG1 T from Wuxi R2TECK. Everyone need to read and understand this disclaimer before using the NEXG1 T. You are supposed to be accepted the disclaimer once the product is started to use. Please comply with the installation and using process indicated in this use manual. Wuxi R2TECK will not be responsible for the consequence of the improper use, improper install, improper modify.

The product name, brand mentioned here are belong to R2TECK.

3.2 Profile

This use manual as the instruction of Zero Delay Full-HD digital video transmission system NEXG1 T, the components and functions mentioned here may not be the standard spec. please check the enclosed list with the product, please contact with the dealer if you have any question.

The right of the manual layout, modify and release only belong to Wuxi R2TECK, Without the authorization of Wuxi R2TECK, this use manual could not be copied or modified or released.

The information in this manual is only for NEXG1 T Zero Delay Full-HD digital video transmission system.

This manual is subject to change without prior notice.

Version	
Profile code & Version	Release Date
RR.H.0007. 0017. V01	November 2018

3.3 Intended usage

NEXG1 T use for Zero Delay wireless Full-HD digital video transmission.

3.4 Caution



The effectiveness of the use product is subject to if comply with operate and maintain direction in this manual.

Before starting the product, the staff must make sure the operate process and condition is correct. Specially to check the product cables are good or not, if the cable is damaged, please change it before starting the product.



NEXG1 T is intended to use on the film and other Full-HD digital video transmission. NEXG1 T may not be reached the defined function if it works in the improper temperature, improper humidity and improper air pressure.

NEXG1 T should not work when it is wet. Have to make sure it is dry when you use it.



NEXG1 T is the high precise product, it is forbidden to beat and clash.



Product life time is 2 years, quality warranty is 1 year.



Manufacture and dealer are responsible for the product maintenance, without their authorization, please don't fix the product and don't modify the product.

4. Module Port definition

4.1 port

4.1.1 Back side port

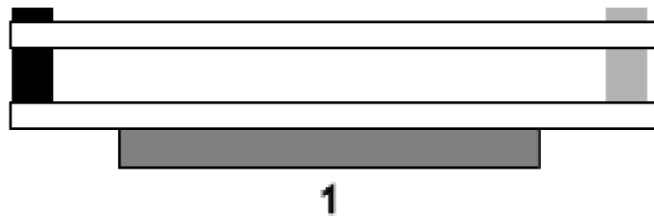


Figure 4.1.1.1 schematic diagram of back side port

[1]: Camera port: For connect the camera.

4.1.2 Side 1 port

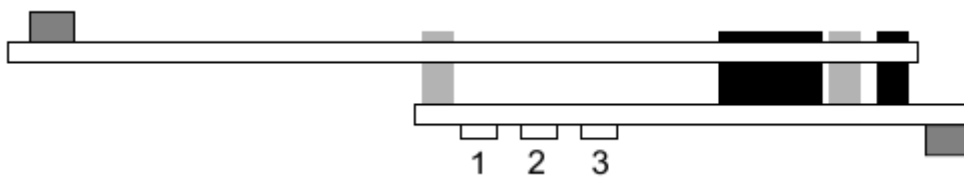


Figure 4.1.2.1 schematic diagram of side 1 port

[1]: Work light, For monitoring the g transmitter operating status.

Light status	Description	Operation
Flash regularly	Transmitter works well	NA
Other status	Transmitter does not work	Connect t he system t o t he power agai n, or c ontact with the customer service.

[2]: Link light, for monitoring the status of connect with the receiver.

Light status	Description	Operation
Turn-on	Connect with receiver well	NA
Turn-off	Does not c onnect w ith receiver	1. Please wait for connecting 2. M ake s ure t he r eceiver i s connected the power. 3. B ind t he Transmitter and receiver again 4. Connect the power again

[3]: CAM light: For monitoring the status of connect with the camera.

Light status	Description	Operation
Turn-on	Connect with camera well	NA

Turn-off	Does not connect with camera	Check whether the camera is well connected.
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4.1.3 Side 2 port

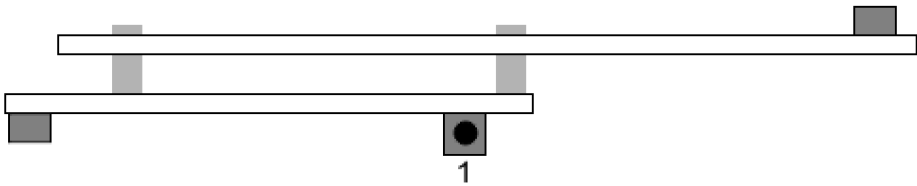


Figure 4.1.3.1 schematic diagram of side 2 port

[1]: Bind button, For bind the transmitter and receiver. (Both the transmitter and receiver are required to operate simultaneously).

Press the button more than 5 seconds, 3 lights (WORL, LINK, CAM) are all turn-off, then 3 lights flash one by one, when the LED light works well that means they are well binded. This may take 2 minutes. If the connection has not been resumed after 2 minutes, repower on both ends, and do not need to rebind.

4.1.4 Bottom side port

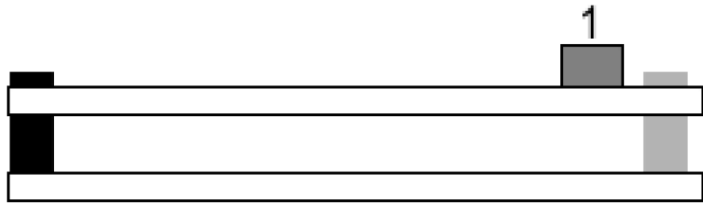


Figure 4.1.4.1 schematic diagram of bottom side port

[1]: DC-12V port, For power supply, connect with 12V DC power supply.

5. Contact info

Thanks for purchasing our device again. If you have any suggestion or need technical support, please visit our website or send us the email, also welcome to call us.

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FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

15.105 Information to the user.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination.

The firmware setting is not accessible by the end user.

The final end product must be labelled in a visible area with the following:

“Contains Transmitter Module 2AR2B-NEXG1T”