



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

NEXG1 R

USER MANUAL

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1. Easy way to start the device

1.1 Operating steps and instructions

1.1.1 Transmitter

- Ø Install the antennas.
- Ø Install the monitor by HDMI cable. (optional)
- Ø Turn off the receiver power button, then connect to the power (12V-DC power), turn on the receiver power button again.
- Ø Turn on the power.

There should be below instructions if the receiver works well.

WORK light flash regularly

HDMI light turn-on(if installed the HDMI monitor).

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

HDMI monitor instruction (if installed the HDMI monitor):

The monitor shows logo " NEXG1 R" after receiver connect to the power.

After that, the monitor shows progress bar: Start-up / Selfcheck / Link.

Monitor real-time display the camera video when the transmitter connect to the receiver.

Attention: When used, the ground system is fixed on the ground, its not a portable device, is used for outdoor.

1.1.2 Mobile

- Ø The mobile connect the Wi-Fi network "R2TECK ", Wi-Fi password "12345688"
- Ø wait for connecting
- Ø Run the APP (if the APP is already running, turn off it first then run again)
- Ø The mobile real-time display the camera video, the MOBILE light on the receiver turn-on.

Attention: Currently only allow working one mobile, if want to change the mobile, please follow below process:

Disconnect the mobile with receiver Wi-Fi network.

Wait receiver MOBILE light turn off.

Repeat the above 4 steps.

IOS App installation: In App store, search“r2teck” and download.

* please note: It is recommended to use systems above IOS 9.0.

2. Specification

Here list the detailed specification about NEXG1 R, 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	5220MHz
Physics specification	
Operating Temperature	-10~60°C
Storage Temperature	-20~50°C
Size (Include shell, no antenna)	L.105 mm×W.74 mm×H.26 mm
Weight (Include shell, no antenna)	174g
Hardware function support	
Transmitter working voltage	DC-12V
Receiver working voltage	DC-12V

3. Introduction

3.1 Disclaimer

Thanks for purchasing the NEXG1 R from Wuxi R2TECK. Everyone need to read and understand this disclaimer before using the NEXG1 R. 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 DelayFull-HD digital video transmission systemNEXG1 R, 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 lay out, 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 RZero DelayFull-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 R 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 R is intended to use on the film and other Full-HD digital video transmission. NEXG1 R may not be reached the defined function if it works in the improper temperature, improper humidity and improver air pressure.

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



NEXG1 R 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 the authorization, please don't fix the product and don't modify the product.

4. Port definition

4.1 port

4.1.1 Bottom side port

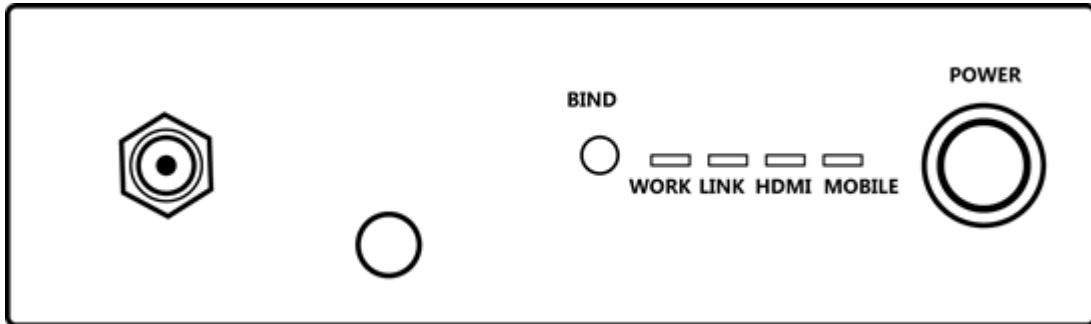


Figure 4.2.1.1 schematic diagram of bottom side port

[1]: BIND button, For bind transmitter and receiver.

Press the button more than 5 seconds, 4 lights (WORK, LINK, HDMI, MOBILE) are all turn-off, then stop press the button, 4 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.

[2]: POWER button, For turn on/off the power supply.

[3]: WORK light, For monitor the receiver operating status.

Light status	Description	Operation
Flash regularly	Receiver works well	NA
Other status	Receiver does not work well	Connect the power again or contact with the customer service

[4]: LINK light, For monitor Transmitter and receiver connect status.

Light status	Description	Operation
Turn-on	Connect with Transmitter	NA
Turn-off	Does not connect with Transmitter	<ol style="list-style-type: none"> 1. Please wait for connecting 2. Make sure the Transmitter is connecting the power. 3. Bind the Transmitter and receiver again. 4. Connect the power again

[5]: HDMI light, For monitor the display device status.

Light status	Description	Operation
Turn-on	Display device connect well	NA
Turn-off	Display device does not connect	Check Display device cable position.

[6]: MOBILE light, For monitor mobile(iPhone、 iPad) connect status.

Light status	Description	Operation
Turn-on	Mobile connect well	NA
Turn-off	No mobile connect	Make sure the mobile connect with the network, turn off the software then turn on again.

4.1.2 Right side port

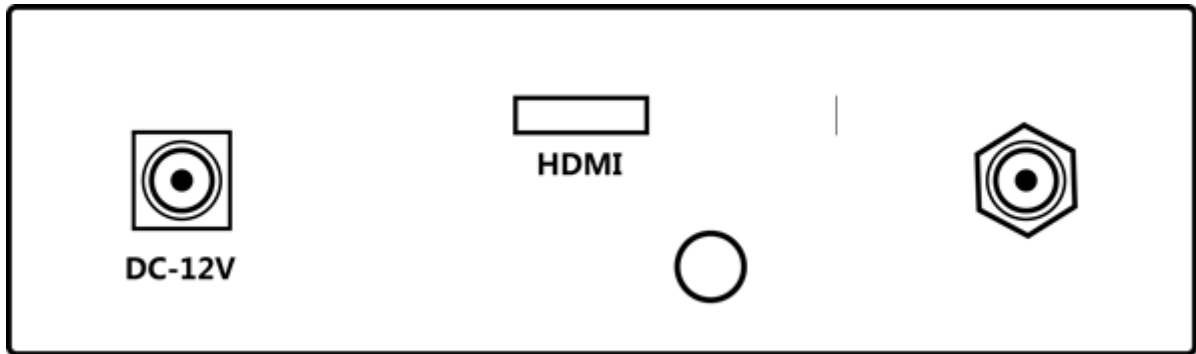


Figure 4.2.2.1 schematic diagram of right side port

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

[2]: HDMI port, For connect with the monitor.

4.1.3 Front side port

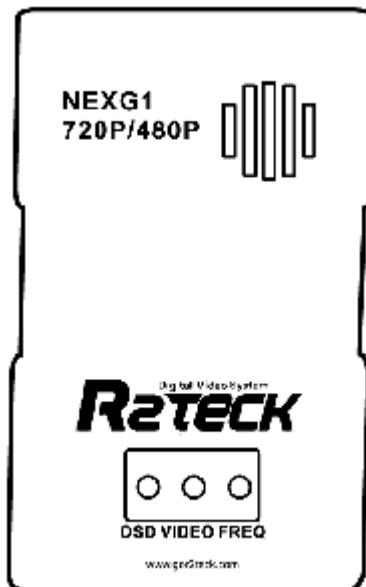


Figure 4.2.3.1 schematic diagram of front side port

Air vent: Pay attention to not cover the air vent.

OSD button: For monitor the OSD parameter information.

VIDEO button: For switching image quality, have 3 level for choose, loop switch mode, switch one level once press.

FREQ button: Reserved/Does not support temporarily.

5. Installation

5.1 installation

5.1.1 Antennas installation

Prepared 4pcs receiver antennas, 2pcs of each style, fix them on the receiver according the photo below:

5.1.2 HDMI cable installation

One end of HDMI connect to the monitor, another end of HDMI connect to the receiver.

5.1.3 Power cable installation

Support 12V-DC power, suggest the output power is more than 1A.

5.1.4 Mobile APP installation

IOS App installation: In App store, search the key word “r2teck” and download.

6. Bind

6.1 Bind

Function description: Reset the device to factory settings, bind one transmitter with one receiver and gives the pair the matching ID code.

Operation method: the device LED light shows correctly, press BIND buttons on transmitter and receiver at the same time and keep more than 5 seconds, all the LED light will turn off, then release the button. All the LED light will flash one by one regularly, means the device start the bind progress. when all the LED lights of both sides shows correctly that means bind progress is finished. The full process will take 1-2 mins.

Attention:

When the Transmitter is connecting with the receiver, the video will be paused two times during the bind progress, the video will work correctly when the progress is finished.

One Transmitter only work together with the bind receiver after processed the bind function. Bind progress should be worked on the Transmitter and receiver at same time, please turn off other devices during bind progress in order to avoid mismatching errors.

All the buttons on the Transmitter and receiver will be worked after the device started 30 seconds later, the LED lights flash high speed means the buttons are not available now.

7. 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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Web: <http://www.gor2teck.com>

Email: sales1@gor2teck.com

FCC WARNING

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.

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

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.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator your body: Use only the supplied antenna.