![BZBGEAR logo — Solutions to Amplify Your World™]

BG-PACKSHOT-C10X

1080P Full HD HDMI/USB 3.0 Vertical Live Streaming Box Camera

User Manual

TABLE OF CONTENTS

Statement

Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

Safety Precaution

- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.

- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.

- Do not expose the product to rain or moisture.

- The product has no power switch. Remove power immediately if the camera is not in proper working condition to avoid electrical shock.

- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.

- Installation and use of this product must strictly comply with local electrical safety standards.

- The power supply of the product is ±12V, the max electrical current is 2A.

- Do not use the product beyond the specified temperature, humidity, or power supply specifications.

- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGEAR is not covered under the warranty policy.

- Installation and use of this product must strictly comply with local electrical safety standards.

- Do not turn the camera head manually. Doing so may result in mechanical damage. Camera should only be placed on a stable horizontal surface and cannot be installed at an angle.

- Make sure there are no obstacles within the camera's rotational range when installing. Never power on before installation has been completed.

Introduction

Go viral with the BG-PACKSHOT-C10X! This 1080p HD camera features fast, accurate near-field auto-focus, an integrated stereo microphone, and the ability to swap between landscape and portrait formats with the flip of a switch. Specifically designed for content creators, this camera makes it easy to create high-quality videos and streams with crisp audio and accurate color reproduction.

Ideal for up-close and personal shoots, the BG-PACKSHOT-C10X is a versatile solution for capturing videos and photos meant to be viewed on both traditional monitors as well as mobile devices. This makes it possible to record not only for wide format platforms like YouTube, but also for vertical-focused content like TikTok and YouTube Shorts.

Features

- **Full HD Resolution**: 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 30fps.

- **Optical Zoom Lens**: 10X optical zoom lens and 68.8° wide angle lens.

- **Multiple Video Interfaces**: HDMI, USB3.0; Simultaneously output audio and video signal

- **Leading Auto Focus Technology**: Fast, accurate, and stable auto focusing technology.

- **Horizontal and Vertical Screen**: Allows the user to switch formats from landscape to portrait to optimize for mobile devices.

- **Built-in microphone**: Dual microphone array with a 6 meter omnidirectional pickup pattern (optimal pickup distance is 3 meters) and a noise suppression algorithm which enhances voice capture.

- **Multiple Audio/Video Compression Standards**: YUY2 / NV12 / MJPG / H.264 / H.265 video compression format.

- **Low Noise and High SNR**: High SNR image is achieved with low noise CMOS. Advanced 2D/3D noise reduction technology further reduces the noise while ensuring high image clarity.

- **Easy to use**: No need to download drivers, USB output is plug and play with a convenient user experience.

Packing List

- 1x BG-PACKSHOT-C10X Camera
- 1x Wireless Remote Control
- 1x USB3.0 Cable
- 1x User Manual
- 1x Quick Start Guide

Technical Specifications

Camera Parameter	
Sensor	1/2.8 inch sensor
Effective Pixels	2 Megapixel, 16:9
Video Format	**HDMI Video Format:** 1080I@60fps, 1080I@50fps, 1080P@30fps, 1080P@25fps, 720P@60fps, 720P@50fps **USB 3.0 Interface Video Format:** **Horizontal Screen**: 1920×1080@30fps, 1280×720@30fps, 1024×576@30fps, 960×540@30fps, 800×448@30fps, 640×360@30fps, 640×480@30fps, 320×176P@30fps **Vertical Screen**: 1080×1920@30fps, 720×1280@30fps, 576×1024@30fps, 540×960@30fps, 448×800@30fps, 480×720@30fps, 480×640@30fps
View Angle	8.8°~68°
Focus Length	f=4.34mm~41.66mm
AV	F1.85 ~ F2.63
Optical Zoom	10X
Minimum Illumination	0.1Lux (F1.8, AGC ON)
DNR	2D&3D DNR
Super Auto noise reduction	On/Off
White Balance	Auto / Manual / One Push / 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K / 7000K
Focus	Auto / Manual / One Push Focus
Exposure	Auto / Manual
BLC	On/Off
SNR	>50dB
Vertical Screen Switch	On/Off
Focus Assist	On/Off
Minimum Object Distance	10cm(W)~100cm(N)
Input/Output Interface	
Video Output	USB Interface: USB 3.0 HDMI Interface: HDMI 1.4
Video Compression Format	YUV, NV12, MJPEG, H.264
Audio Input	Built-in 2 MIC pickups
Control Interface	USB

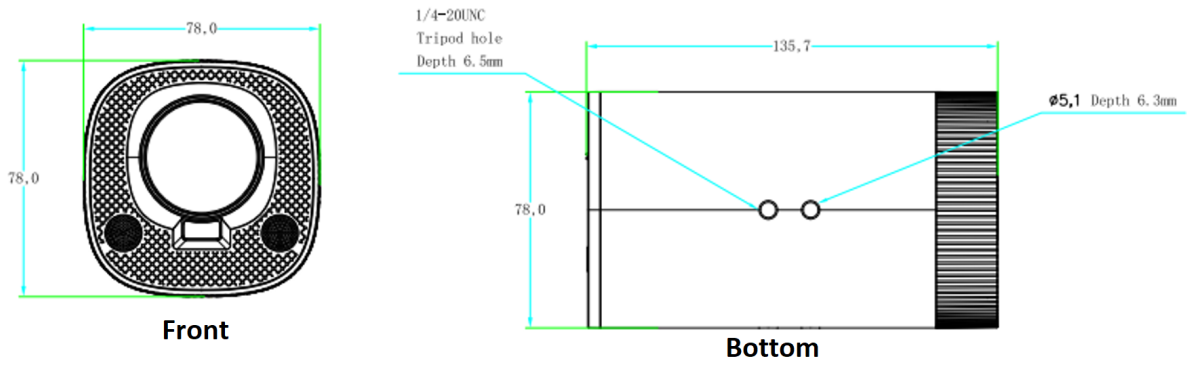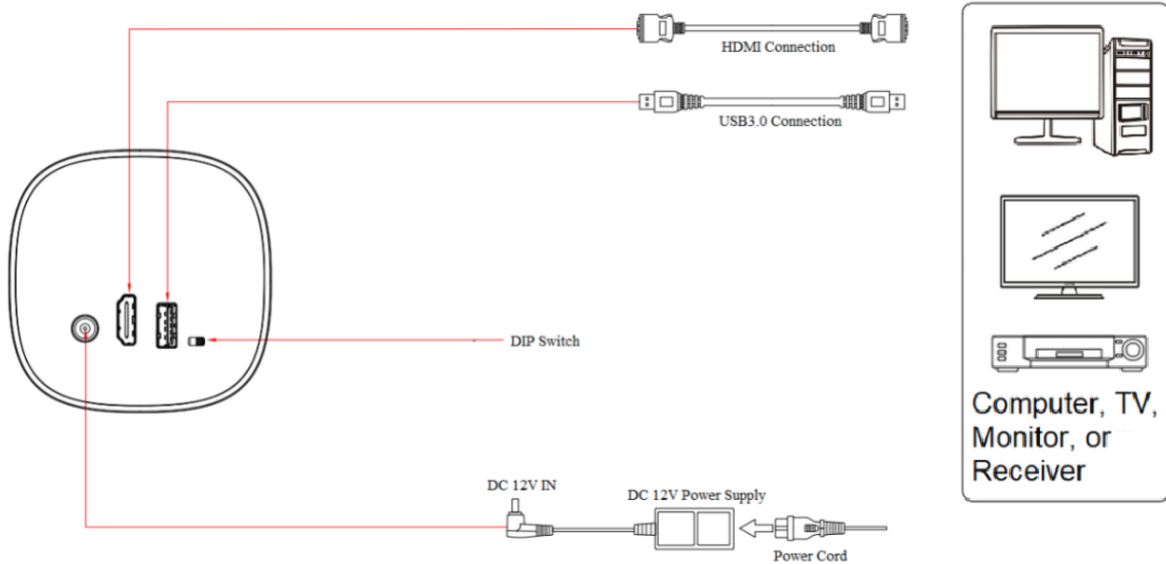| Other Parameter			
Input Voltage/Current	Voltage	Power Adapter	12
		USB	5V
	Current	Power Adapter	0.425
		USB	1A(Max.)
Power Consumption	5W (Max.)		
Stored Temperature	-10°C~+60°C		
Stored Humidity	20%~90%		
Working Temperature	-10°C~+50°C		
Working Humidity	20%~80%		
Dimension (W*H*D)	78 x 138 x 78mm		
Weight	1.3 lbs [0.6Kg]		
Application	Indoor		

Camera Overview

Camera Interfaces

1. **Power**: Connect supplied 12V power adapter.
2. **HDMI**: Connect to an HDMI device such as a video production switcher or a video display up to 1080p@30Hz.
3. **USB**: Connect a USB 3.0 cable to a PC for plug & play connectivity for any conferencing service like Skype or Zoom, supporting resolutions up to 1080p@30Hz.

Dimensions

Front

1/4-20UNC
Tripod hole
Depth 6.5mm

135.7

∅5.1 Depth 6.3mm

78.0

Bottom

Interfaces and Connection

HDMI Connection

USB3.0 Connection

DIP Switch

DC 12V IN   DC 12V Power Supply

Power Cord

Computer, TV, Monitor, or Receiver

Remote Control

Match Code for Wireless Remote Control

One-to-One Code Matching:
Press the "set" and "*" keys combined for 3 seconds, LED indicator starts flashing. Camera will receive the signal and power on. The LED indicator will turn off if the code matching is successful. The camera can be controlled by the wireless remote control only after one to one code pairing.

If one-to-one code matching fails, the red LED light flashes for 20 seconds and then will go off. The camera will halt code matching and activate sleep mode; Hold the power for 3 seconds to wake the camera up and re-match code.

Note: Upon matching code successfully, please select the camera's address to control it.

Clear Code:
Press the "set" and "*" keys combined for 3 seconds, the LED indicator will start flashing. Camera will power off and on and the LED indicator will go off if the code clearing is successful.

Sleep Mode and Wake Up:
Press and hold the power button for 3 seconds to wake up the camera from sleep mode.

Keys Introduction for IR Remote Control

- In this manual, "press the key" means a click rather than a long-press, and a special note will be given if a long-press for more than one second is required.
- When a key-combination is required, do it in sequence. For example, 【*】+【#】+【F1】 means press "【*】" first and then press "【#】" and last press "【F1】".

1. Standby Key

The camera enters standby mode if the power button is pressed for 3 seconds. Press and hold power for 3 seconds to wake up the camera and it will perform the system self-check again and return to the HOME position (If preset (0) position is set, the camera will return to the preset (0) position).
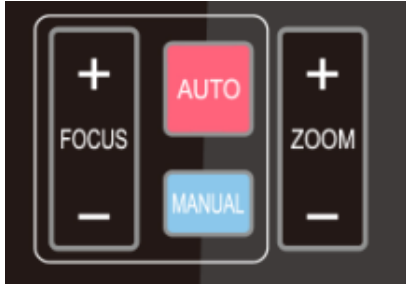
2. **Camera Selection**

Select the camera's address to control it.

3. **Focus Control**

Auto: Auto focus mode
Manual: Manual focus mode
Focus + (near): Press【FOCUS +】key (Valid only in manual focus mode)
Focus - (far): Press【FOCUS -】key (Valid only in manual focus mode)
Press and hold the keys, focusing will continue and stop based on the key being pressed and released.

4. **Zoom Control**

ZOOM +: press【ZOOM +】key to zoom in
ZOOM - : press 【ZOOM -】key to zoom out
Press and hold the keys, the action of zoom will continue until the key is released.

5. **Set and Clear Presets**

Set Preset: press 【SET PRESET】button, and then press the number key 0-9 to set preset positions.

Note: 10 presets are available via the remote control.

Call Preset: Press a number key (0-9) to call a preset position.

Clear Preset: Press【CLEAR PRESET】and then press the number key 0-9 to clear the preset position.

Note: press the【#】key three times to clear all presets.

6. Menu Setting

【MENU】: Open / close the OSD menu
【HOME】: Camera lens back to the middle position;
Confirm button; Enter next menu
【↑】【↓】: Choose item
【←】【→】: Modify values
【BLC ON/OFF】: Turn on or off the back light compensation

Menu Introduction

Main menu

In normal working mode, press 【MENU】 key to display the menu, and use the up and down arrows to select a menu item.

1) **Language**: Move the pointer to (Language) in the main menu, and press the [←→] key to modify language.

2) **Image Style**: Move the pointer to (Image Style) in the main menu, and press the [←→] key to modify the style default / Beauty / Jewelry

3) **Anchor**: Move the pointer to (Anchor) in the main menu, and press the [←→] key to modify the 1-4 host numbers; Image parameters can be modified manually under different host numbers, and can be saved after power failure.

```
MENU
================
Language              English
  Image Style         Default
  Anchor              1
（Color）
（Image）
（Focus）
（Noise Reduction）
（Focus）
（Video Format）
（Version）
（Restore Default）

[↑↓]Select   [← →]Change Value
[Menu]Back[Home]OK
```

4) **Exposure Setting**: Move the pointer to (EXPOSURE) in the Main Menu, click【HOME】to enter the Exposure sub menu as shown below:

Mode: Auto, Manual, Shutter priority and Brightness priority.
EV: On/Off (only available in auto mode)
Compensation Level: -7~7 (only available in auto mode when EV is ON)
BLC: ON/OFF for options (only available in auto mode)
Dynamic Range: 1~8, close

```
EXPOSURE
==============
Mode                Auto
EV                  OFF
BLC                 OFF
Flicker             50Hz
G.Limit             3
DRC                 2

[↑↓]Select   [← →]Change Value
[Menu]Back[Home]OK
```

Anti-Flicker: OFF/50Hz/60Hz for options (only available in Auto/Iris priority/Brightness priority modes)

Gain limit: 0~15(only available in Auto/ Iris priority /Brightness priority mode)

WDR: Off, 1~8

ShutterPriority: 1/25, 1/30, 1/50, 1/60, 1/90, 1/100, 1/120, 1/180, 1/250, 1/350, 1/500, 1/1000, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 (only available in Manual and Shutter priority mode)

Brightness: 0~23 (only available in Brightness priority mode)

5) **Color**: Move the pointer to (COLOR) in the Main Menu, click【HOME】to enter the COLOR sub menu:

WB Mode: Auto, Manual, One Push, Specified color temperature

Saturation: 60%, 70%, 80%, 90%, 100%, 110%, 120%, 130%, 140%, 150%, 160%, 170%, 180%, 190%, 200%

Red fine-tuning: -10~10 (only available in automatic mode)

Blue fine-tunable: -10~10 (only available in automatic mode)

RED GAIN: 0~255(only available in Manual mode)

BLUE GAIN: 0~255(only available in Manual mode)

AWB Sensitivity: high/middle/low

Chroma: 0~14

```
COLOR
================
WB Mode             Auto
RG Tuning           0
BG Tuning           0
Saturation          100%
Hue                 7
AWB Sensitivity     High

[↑↓]Select  [←→]Change Value
[Menu]Back[Home]OK
```

6) **Image**: Move the pointer to the (IMAGE) in the Menu, click【HOME】to enter the IMAGE sub menu:

Brightness: 0~14

Contrast: 0~14

Sharpness: 0~15

Flip-H: On/Off

Flip-V: On/Off

B&W Mode: color, black/white

Gamma: Default/0.45/0.50/0.55/0.63

DCI: Dynamic Contrast: Off/1～8

Minimum Illumination: On/Off

```
IMAGE
================
Brightness          7
Contrast            7
Sharpness           4
Flip-H              OFF
Flip-V              OFF
B&W-Mode            Color
Gamma               Default
DCI                 Close
 Low-Light Mode     Close

[↑↓]Select  [←→]Change Value
[Menu]Back[Home]OK
```

7) **Noise Reduction:** Move the pointer to the (NOISE REDUCTION) in the Menu, click【HOME】to enter NOISE REDUCTION:

2D Noise Reduction: Auto, close, 1~7
3D Noise Reduction: Close, 1~8
Dynamic Hot Pixel: Close, 1~5

```
NOISE REDUCTION
==================
NR-2D                    2
NR-3D                    5
Dynamic Hot Pixel        OFF

[↑↓]Select  [←→]Change Value
[Menu]Back[Home]OK
```

8) **Focus:** Move the pointer to the (FOCUS) in the Menu, click【HOME】to enter FOCUS:

Focus Mode: Auto/manual
Focus Assist: On/Off
AF-Zone: Up/middle/down
AF-Sensitivity: High/middle/low

```
FOCUS
==================
Focus Mode           Auto
Focus Auxiliary      ON
AF-Zone              Center
AF-Sensitivity       Low

[↑↓]Select  [←→]Change Value
[Menu]Back[Home]OK
```

9) **Video Format:** Move the pointer to the (Video Format) in the Menu, click【HOME】to enter Video Format:

```
VIDEO FORMAT
==================
1080I60
1080I50
1080P30
1080P25
720P60
720P50

[↑↓]Select
[Menu]Back[Home]OK
```

10) **Version:** Move the pointer to the (VERSION) in the Main Menu, click【HOME】to enter VERSION:

```
VERSION
==================
Cam Version     1.0.0  2019-12-18
AFocus Version  1.0.0  2018-11-20

[Menu]Back
```

11) **Restore Default:** Move the pointer to (RESTORE DEFAULT) in the Main Menu, click【HOME】to enter RESTORE DEFAULT:

Restore default: YES/NO.

Restore factory default only restores the image parameters under the current host number (Color style and video format cannot be restored to factory default)

```
RESTORE DEFAULT
==================
Restore  Default?      NO

[↑↓]Select  [←→]Change Value
[Menu]Back[Home]OK
```

Maintenance and Troubleshooting

4.1 Camera Maintenance

1) Power off the camera and disconnect the power adapter and socket if the unit is not used for an extended period of time.

2) Use soft cloth or tissue to clean the camera cover.

3) Wipe with a soft dry cloth when cleaning the camera lens. Wipe it gently with a mild detergent if needed. Do not use strong or corrosive detergents to avoid scratching the lens and affecting the video quality.
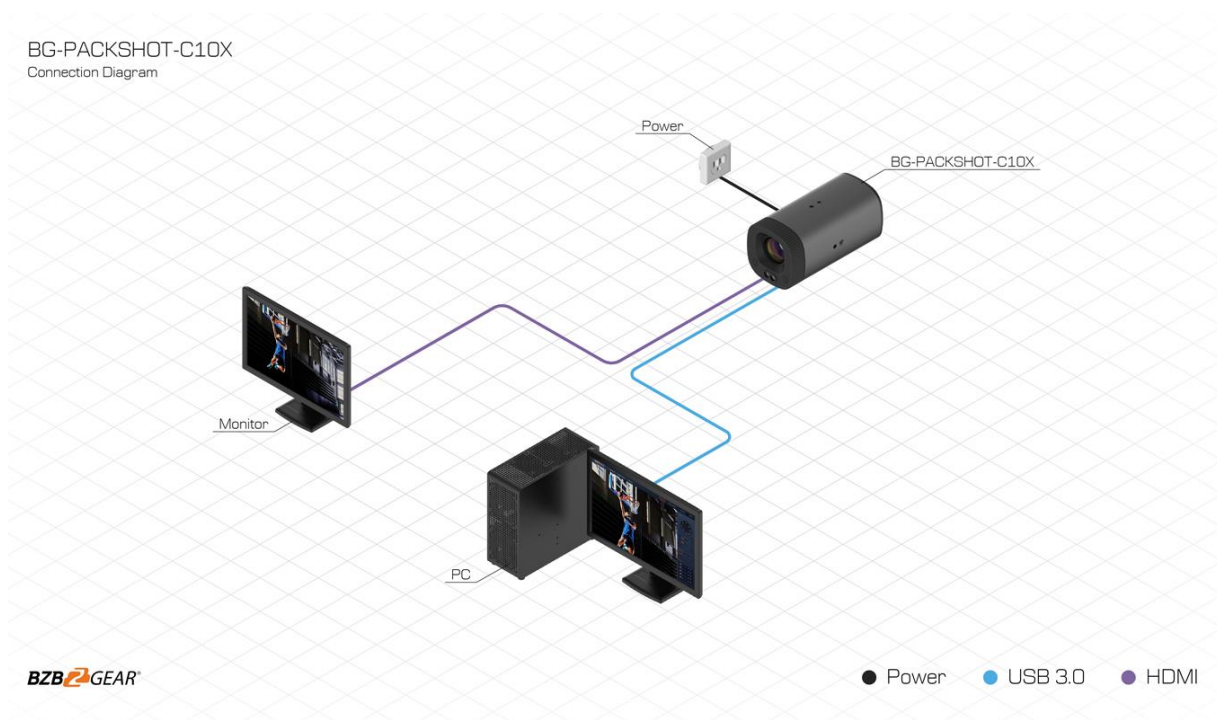
4.2 Troubleshooting

1) No video output

a. Check whether the device is connected to the USB cable and whether the power indicator is on

b. Check whether the device is in standby state, long press the power button for 3s to see whether it can be turned on

c. Restart the computer

d. Check the video output cable

e. Check whether the device is recognized, unplug the device and reconnect when it is displayed in the device manager

2) Remote control not working

a. Re-code the wireless remote control to the camera

b. Remote control address is set to 1 (if the machine is set back to the factory defaults, remote control addresses need to be back to 1 too)

c. Check whether the battery is installed on the remote controller or low

d. Check the camera working mode is the normal operating mode

Application Example

BG-PACKSHOT-C10X
Connection Diagram

Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGEAR's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (bzbgear.com/knowledge-base) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (youtube.com/c/BZBTVchannel), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

Phone	Email	Live Chat
1.888.499.9906	support@bzbgear.com	bzbgear.com

Warranty

BZBGEAR Pro AV products and cameras come with a three-year warranty. An extended two-year warranty is available for our cameras upon registration for a total of five years.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Mission Statement

BZBGEAR is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGEAR delivers quality products designed with users in mind.

Copyright