

advidia

B-33 User's Manual

**18x Zoom H.264 4-Megapixel IP IR D/N PoE
Outdoor Box Camera with Advanced WDR**



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0. Precautions

Read these instructions

You should read all the safety and operating instructions before using this product.

Heed all warnings

You must adhere to all the warnings on the product and in the instruction manual. Failure to follow the safety instruction given may directly endanger people, cause damage to the system or to other equipment.

Servicing

Do not attempt to service this video device yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Trademarks

All names used in this manual are probably registered trademarks of respective companies.

Liability

Every reasonable care has been taken during the writing of this manual. Please inform your local office if you find any inaccuracies or omissions. We cannot be held responsible for any typographical or technical errors and reserve the right to make changes to the product and manuals without prior notice.

FCC/CE Regulation

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the users will be required to correct the interference at their own expense.

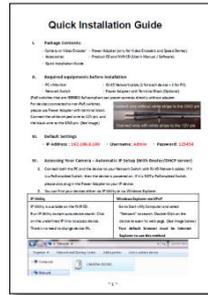
1. Introduction

Package Contents

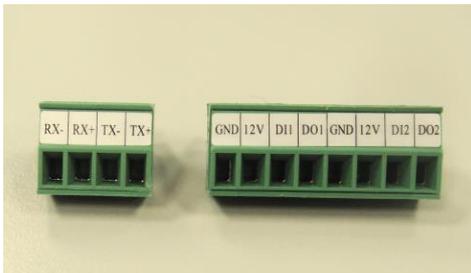
18x Zoom H.264 4 Megapixel IP IR D/N

PoE Outdoor Box Camera with Advanced WDR

Quick installation Guide



Terminal Blocks for Power, DI/O and Serial Port



Features and Benefits

This is a cutting edge network video surveillance camera. It can capture, compress and transmit real time video in excellent quality (8 FPS 4Megapixel, 2032 x 1920).

18x Zoom Lens with Auto Focus

The powerful 18x Zoom Lens with ISP enabled Auto Focus brings precision video quality not available with manual adjustments. Focus is no longer an issue during installation, saving time while enhancing quality.

Adaptive Profile

With the innovative embedded Image Signal Processor (ISP), this camera responds to changing lighting condition with customized algorithm. This allows for clear image with very little noise at night.

H.264/MPEG-4/MJPEG Triple Codec Dual Streaming

This device supports 3 compression formats, H.264, MPEG-4 and MJPEG. It brings superior image quality at 8 frames per second up to resolution of 2032 x 1920 pixels, and offers up to 15 frames per second in Full HD 1080p (1920 x 1080). In 720p (1280 x 720) and VGA resolution (640 x 480) the device reaches 30 frames per second.

Advanced WDR

Advanced WDR technology is the most advanced approach of improving the dynamic range of the camera. While many other WDR technologies enhance the dynamic range while producing noise, blur edges of objects and untrue colors, Advanced WDR is designed to improve the dynamic range while keeping the true colors, sharp edges of objects and free from noise

DC Iris Control

With DC Iris Lens, this camera automatically adjusts incoming light levels to achieve the best video performance. Wildly fluctuating outdoor lighting condition is no longer an issue with your video quality.

Safety Instructions

Don't use the power supply with other voltages

This device is likely to be damaged or damage other equipments / personnel, if you use a power supply with different voltage than the one included with this device. All warranty of this product will be voided in the situations above.

Don't open the housing of the product

Cleaning

Disconnect this video product from the power supply before cleaning.

Attachments

Do not use attachments not recommended by the video product manufacturer as they may

cause hazards.

Water and Moisture

Do not use this video product near water, for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool and the like.

Don't use accessories not recommended by the manufacturer

Only install this device and the power supply in a dry place protected from weather

Servicing

Do not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Damage Requiring service

Disconnect this video product from the power supply immediately and refer servicing to qualified service personnel under the following conditions.

- 1) When the power-supply cord or plug is damaged
- 2) If liquid has been spilled, or objects have fallen into the video product.
- 3) If the video product has been directly exposed to rain or water.
- 4) If the video product does not operate normally by following the operating Instructions in this manual. Adjust only those controls that are covered by the instruction manual, as an improper adjustment of other controls may result in damage, and will often require extensive work by a qualified technician to restore the video product to its normal operation.

Safety Check

Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine if the video product is in proper operating condition.

Physical description



- | | |
|----------------------------------|--------------------------|
| ① MicroSD / Micro SDHC Card Slot | ⑤ Serial Port Input |
| ② Power LED | ⑥ Reset Button |
| ③ Audio Input / Output | ⑦ Ethernet Port |
| ④ DC 12V Power Input | ⑧ Digital Input / Output |

1) Micro SD / Micro SDHC Card Slot*

Insert your Micro SD card here for local recording on camera

2) Power LED

This LED light will indicate current camera status.

3) Audio Input / Output

The IP device supports audio input and output with earphone jack

4) Power Input

If you use Power Adaptor to run the device, please connect the power adaptor to the terminal block in the way shown below.



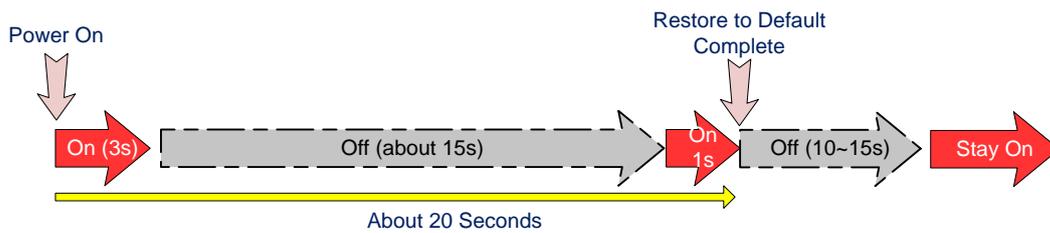
Pin Number	RS422	RS485
1	TX+	D+
2	TX-	D-
3	RX+	N.C.
4	RX-	N.C,

6) Reset Button

Step 1: Switch off IP device by disconnecting the power cable

Step 2: Press and continue to hold the Reset Button (with a sharp tipped object, like a pen.)

Step 3: **Reconnect the power cable while continuing to hold the reset button.** The red Power LED light will flash on for 3 second first, turn off for about 15 seconds, flash on for another second and turn off again. By this time the reset to default operation is already completed. **This will take around 20 seconds from power up.** You may then release the reset button. This length of time fluctuates slightly with the environment. The Power LED light will come back on and stay on after a few more seconds. The unit will start up with factory default settings automatically.



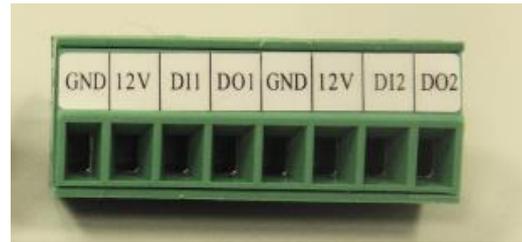
7) Ethernet Port

The IP device connects to the Ethernet via a standard RJ45 connector. Supporting NWAY, this IP device can auto detect the speed of local network segment (10Base-T/100Base-TX Ethernet).

8) Digital Input / Output

Used in applications like motion detection, event triggering, time lapse recording, alarm notifications, etc., the I/O terminal connector provides the interface to:

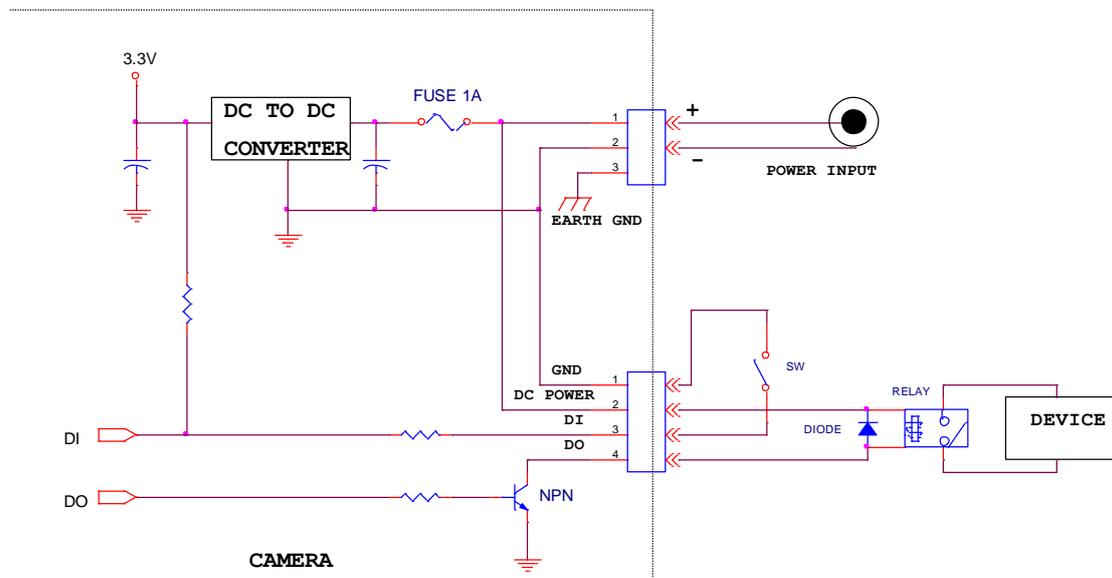
• **1 Transistor Outputs** - For connecting external devices such as relays and LEDs. Connected devices can be activated by Output buttons on the Live View page or through video management software. Connect DO1 and DO2 to their closest 12V pin to activate.



• **2 Digital Inputs** - An alarm input for connecting devices that can toggle between an open and closed circuit, for example: PIRs, door/window contacts, glass break detectors, etc. The device will detect the change in digital input and transmit the signal to video surveillance servers. The I/O terminal pins are numbered right to left,

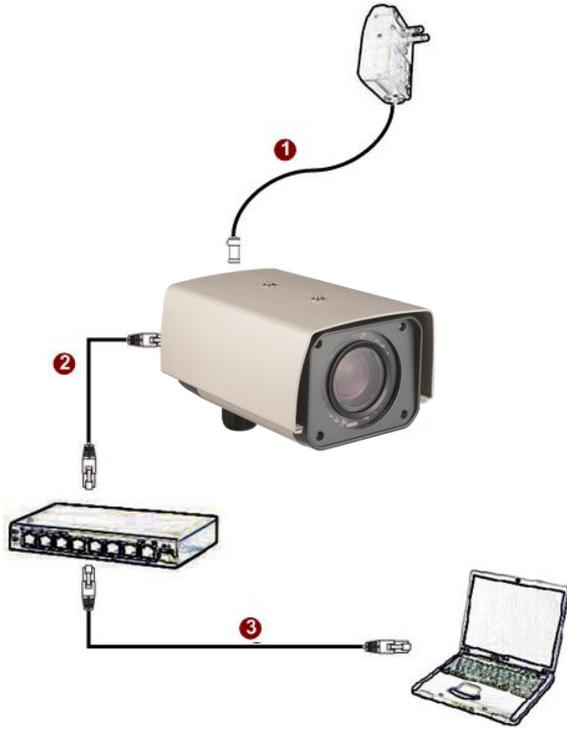
Connect input/output devices to the camera as follows:

1. Attach the cables for the device securely to the supplied green connector block. **Connect DI pins to GND pins, and DO pins to 12V pins. Link pins 1/3, 2/4, 5/7,6/8.**
2. Once cables are connected, push connector block into the terminal connector on camera.



Basic Connections

Follow the procedures below to connect the IP device to the respective apparatuses.



If you have a PoE(Power over Ethernet) supported switch or injector:

- 1) Connect your IP Box Camera to the Switch / Injector by CAT5 or CAT6 cables with RJ45 connector.
- 2) Connect your Switch / Injector to PC with another CAT5 / CAT6 network cable.

If your switch does not support PoE, and you are powering the camera with power adaptor:

- 1) Connect the power adaptor to IP Box Camera
 - 2) Connect IP device's Ethernet port to Network switch (via RJ45 connectors).
- Connect a PC to the Ethernet switch (via RJ45 connectors)

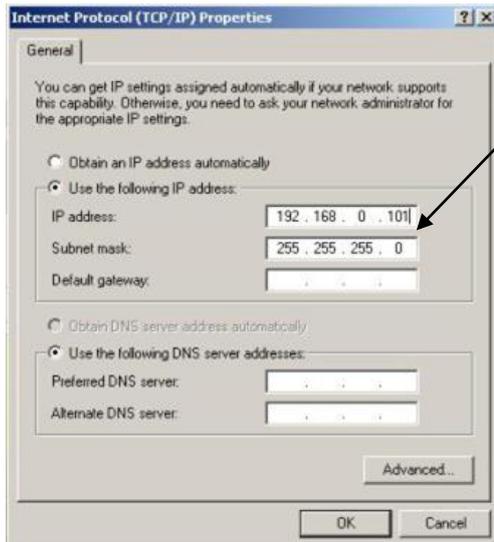
2. Accessing Camera

If you have DHCP server / router in your network:

Many network server / routers are able to automatically provide IP addresses through DHCP. If you are using such a network, just plug in your computer and IP Box Cam into the network and your IP device will acquire network address by itself. Find and access the device with our IP Utility program.

If you do **NOT** have DHCP server / router in your network:

1. Configure your PC to use the same subnet by changing your PC's IP address to the subnet with prefix 192.168.0.XXX. The last number should be anything from 1 to 254 except 100 and other occupied IP addresses. Subnet mask should be 255.255.255.0.
2. **The default IP used by this device is 192.168.0.100. Please make sure your PC is NOT using this address and that no two equipments use the same IP address in the network.**
3. Change your IP address by going to Control Panel ->Manage Network Connections -> Right click on the connection to change -> Option -> TCP/IP IPv4 Properties.



Please set the settings as below.

-
- IP address: 192.168.0.xxx
- Subnet mask: 255.255.255.0

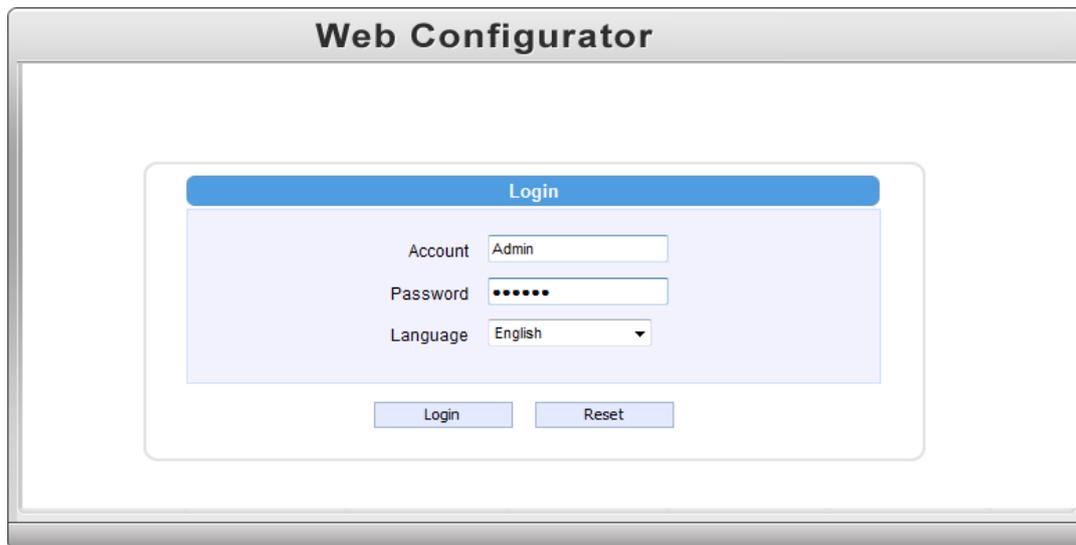
(NOTE: xxx should be a number from 1 to 254 except 100, which is used by the IP device. Please also make sure that no two equipments use the same IP address in the

4. Open Internet Explorer (Version 6.0 or above) , and type in the Default IP:

192.168.0.100

5. When you see the login window, please input default user and password:

Default User: Admin Password: 123456



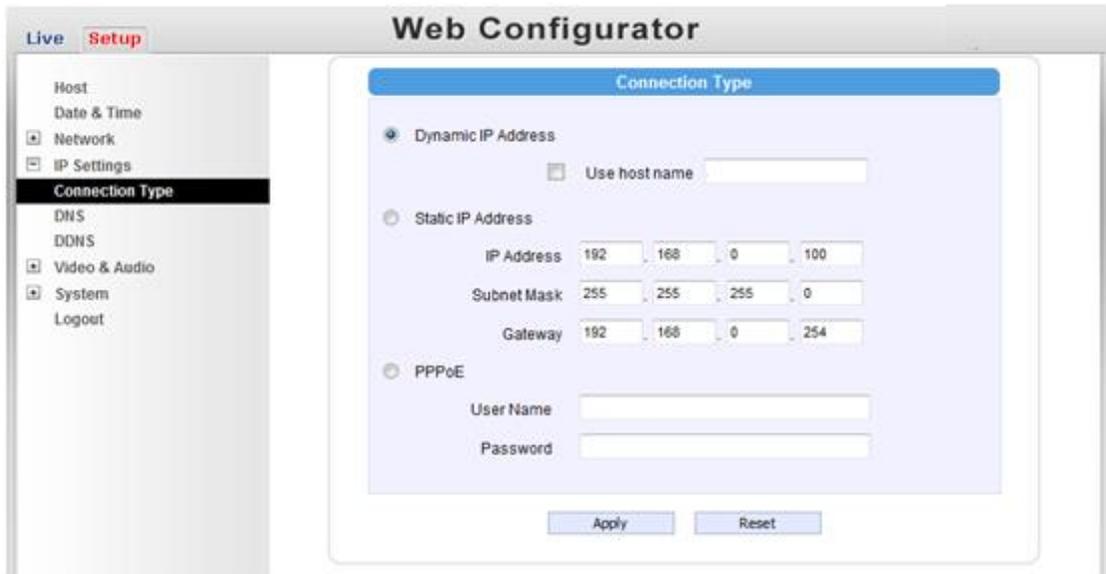
6. After logging in, you will see the video from camera. To go to the main menu, click the "Setup" button on the top left.



If you are using a single camera, this is enough to access the device.

If you are using multiple devices, you need to change the current device to another unused IP address, so that when the next device is connected to the network, no two devices use the same IP. Please perform the following steps.

7. Go to IP Settings -> Connection Type
8. Change the IP mode to Static.
9. Change the IP to 192.168.0.101 or any other unused IPs. Do NOT use the PC's IP address or 192.168.0.100.). If this is not the first device you add to the network, please also avoid other devices' IPs.



10. Click "Apply"

11. Please go to System -> Save & Reboot, and click "Apply". Internet Explorer will close after a few seconds. This is normal.



12. Wait for 30 seconds, and open IE again to connect to the **new IP**. (In this example, 192.168.0.101). For the second device or more you add into the network, please type the correct IP.

13. Adjust the default Video setting by going to Video & Audio -> Media 1

Web Configurator

Live **Setup**

- Host
- Date & Time
- Network
- IP Settings
- Video & Audio
- Stream Mode
- Video Compression**
- Motion
- Image
- Day/Night
- Exposure/White Balance
- Audio
- OSD/Privacy Mask
- System
- Logout

Video Compression

1: 2000-01-01 00:17:20



Encoder Type	H.264 ▾
Resolution	N1920x1080 ▾
Frame Rate	15 ▾
Video Bit Rate Mode	Constant Bit Rate ▾
Video Max Bit Rate	UNLIMITED ▾
Video Bit Rate	4M ▾