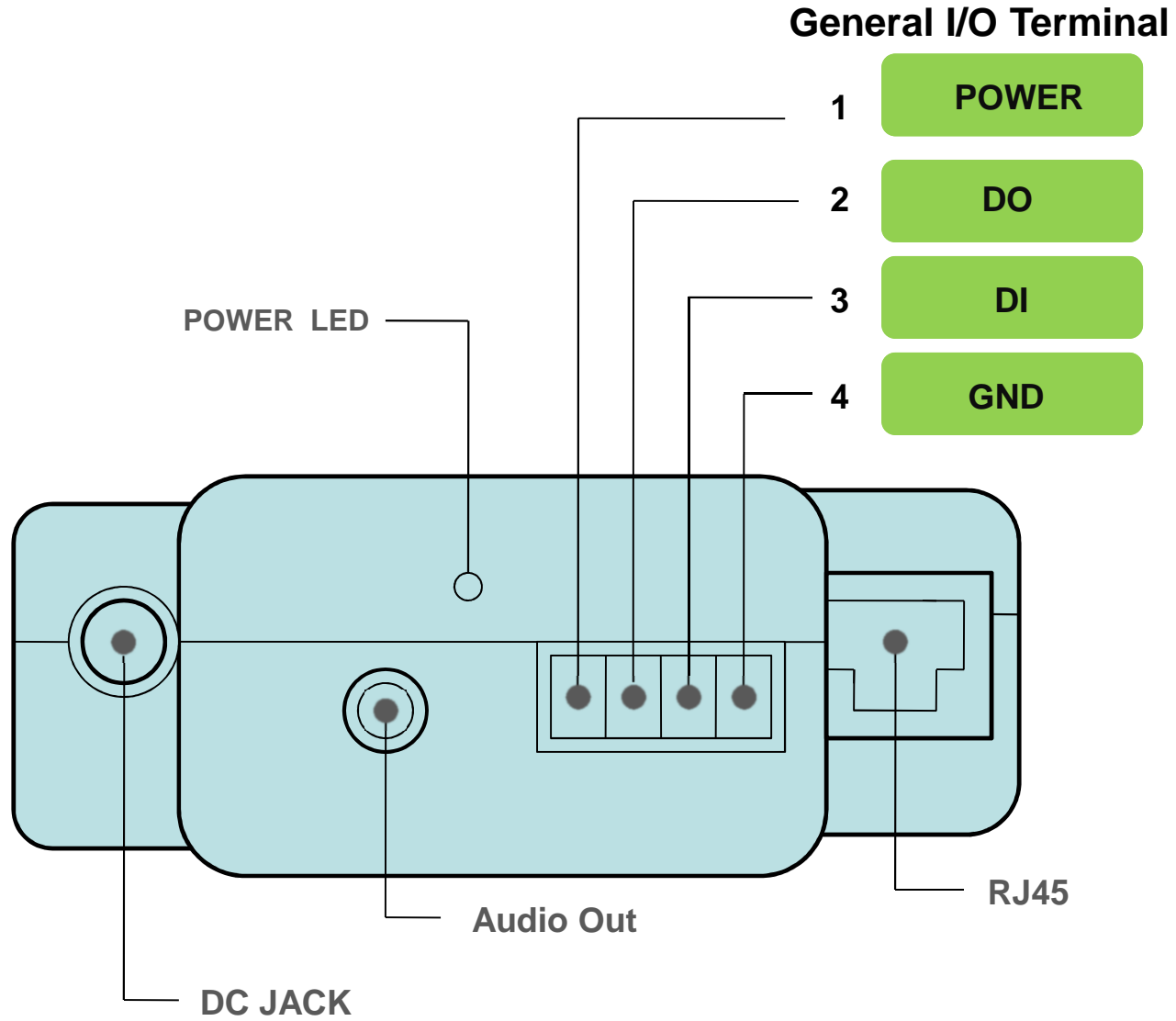


Extension BOX Interface



General I/O Terminal

This Network Camera provides a general I/O terminal which is used to connect external wired alarm devices like PIR sensor, Gas Detector, Infra-red pool alarm and etc. The terminal definitions are described below :

| Pin | Name | Specification |
|-----|-------|---|
| 1 | POWER | 12VDC \pm 5%, max. 0.5A (For external device) |
| 2 | DO | Digital output , Max. 40VDC, max. 400mA |
| 3 | DI | Digital input, input OPEN/Short-to-GND |
| 4 | GND | Ground |

1

POWER

This terminal can provide DC power to a wired alarm devices. The max power for external device is 12VDC \pm 5%, 0.5A .

This is a optional, you can use the alarm device with a external power supply.

Caution

The maximum rating voltage of alarm device **can not** less than 12VDC, or you will damage the alarm device.

General I/O Terminal

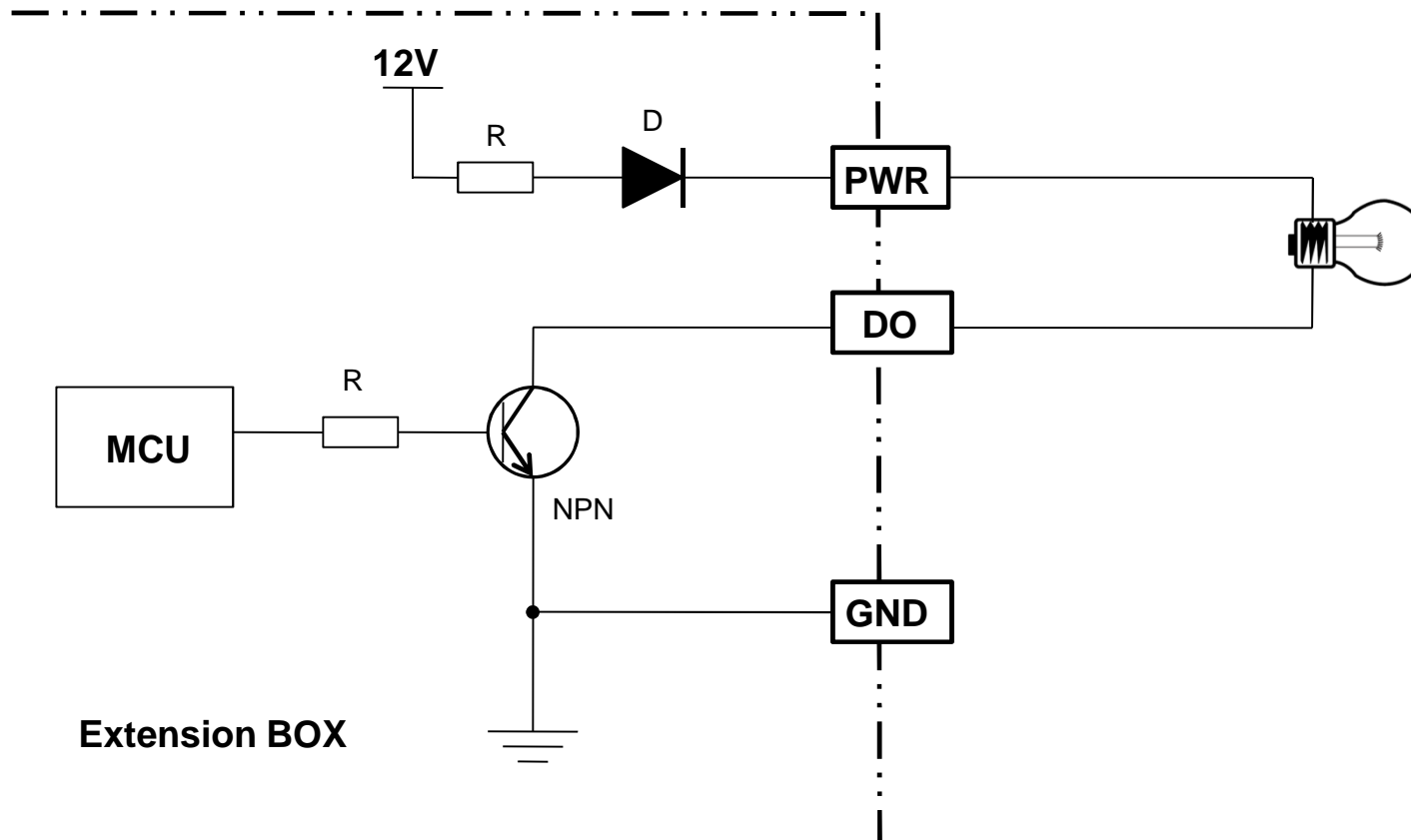
2

DO

With a maximum load of 400mA and a maximum voltage of 40V DC, This terminal has an open-collector NPN Darlington transistor with the emitter connected to the **GND** terminal.

If used with an external relay, a diode must be connected parallel with the load, for protecting against voltage transients.

Please refer to the following diagram for the connection method.



Be careful about choosing **Open** or **Grounded** when connecting to a alarm or other device, you need to make the relevant settings to the camera as the picture below:

Digital I/O Setup

Digital input: Enable Disable
Digital input's active state is: Open Grounded

Digital output: Enable Disable
Digital output's active state is: Open Grounded

Apply

The **Grounded** means that **DO** short to **GND** inside the camera.

The **Open** means that **DO** is floating inside the camera.

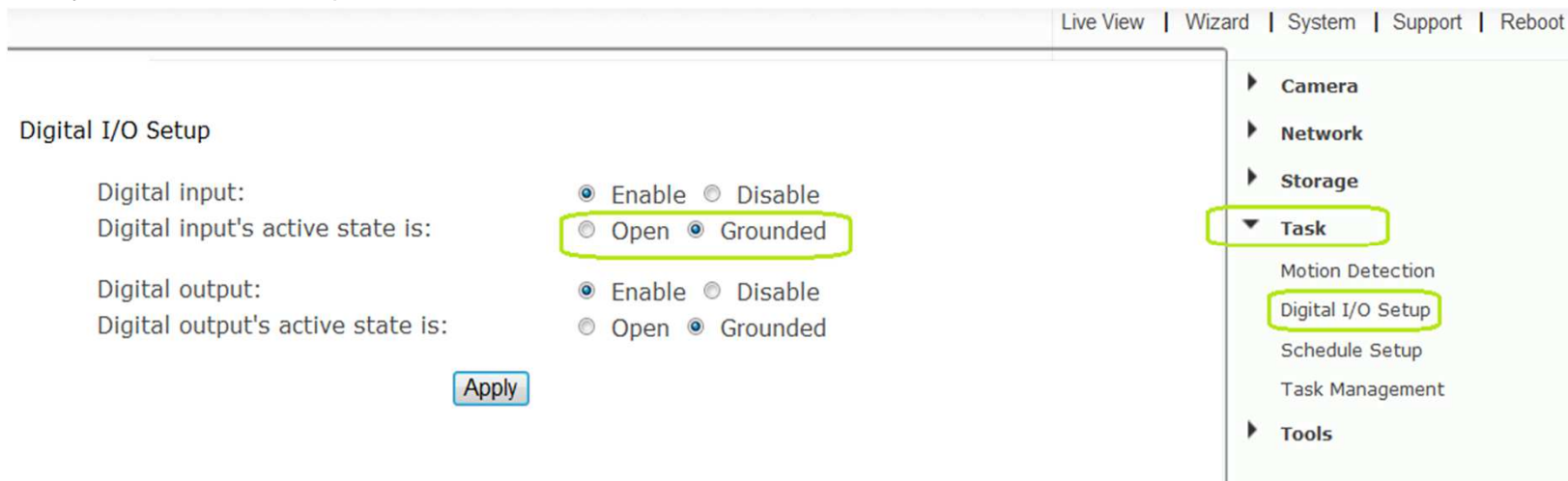
General I/O Terminal

3

DI

This terminal which is used to connect the relay output of wired alarm device like PIR sensor, Gas Detector, Infra-red pool alarm and etc.

Be careful about choosing **Open** or **Grounded** when connecting to the terminal of alarm output, you need to make the relevant settings to the camera, do it like this: setting--> Task--> Digital I/O Setup--> you can do it as the picture below:



The **Grounded** means that **DI** is shorted to **GND**. In this way, **DI** should be connected to **N.O**(*Normal Open*) terminal.

The **Open** means that **DI** is floating from **GND**. In this way, **DI** should be connected to **N.C** (*Normal Close*) terminal.

4

GND

This terminal used to **COM** terminal for Relay output of alarm device.

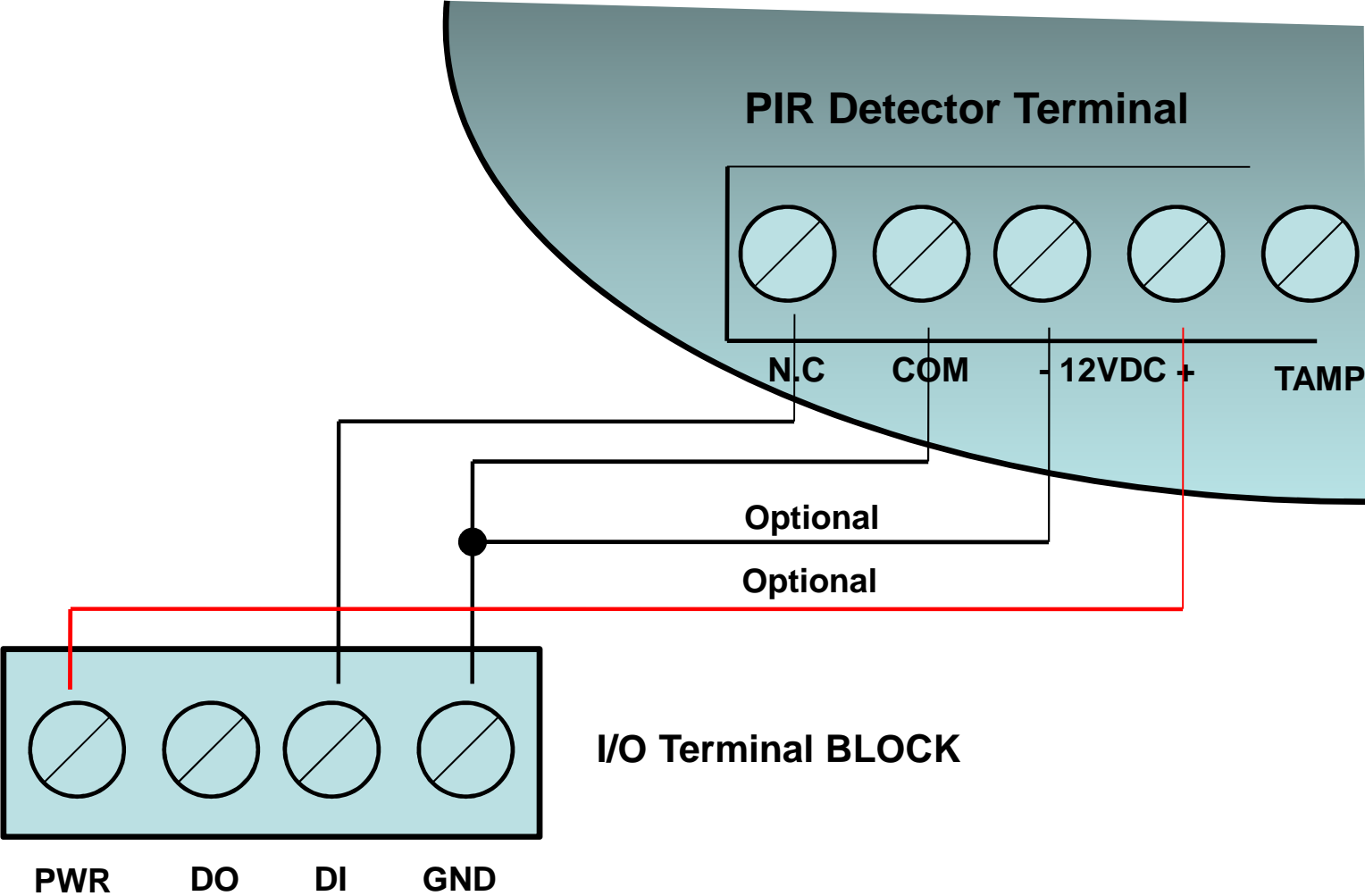
When **Terminal 1** connect **+DC** terminal of alarm device , please connect this terminal to **GND** or **-DC** terminal of the device.

This is a optional, you can use the alarm device with a external power supply.

Example For Connecting a Sensor Device

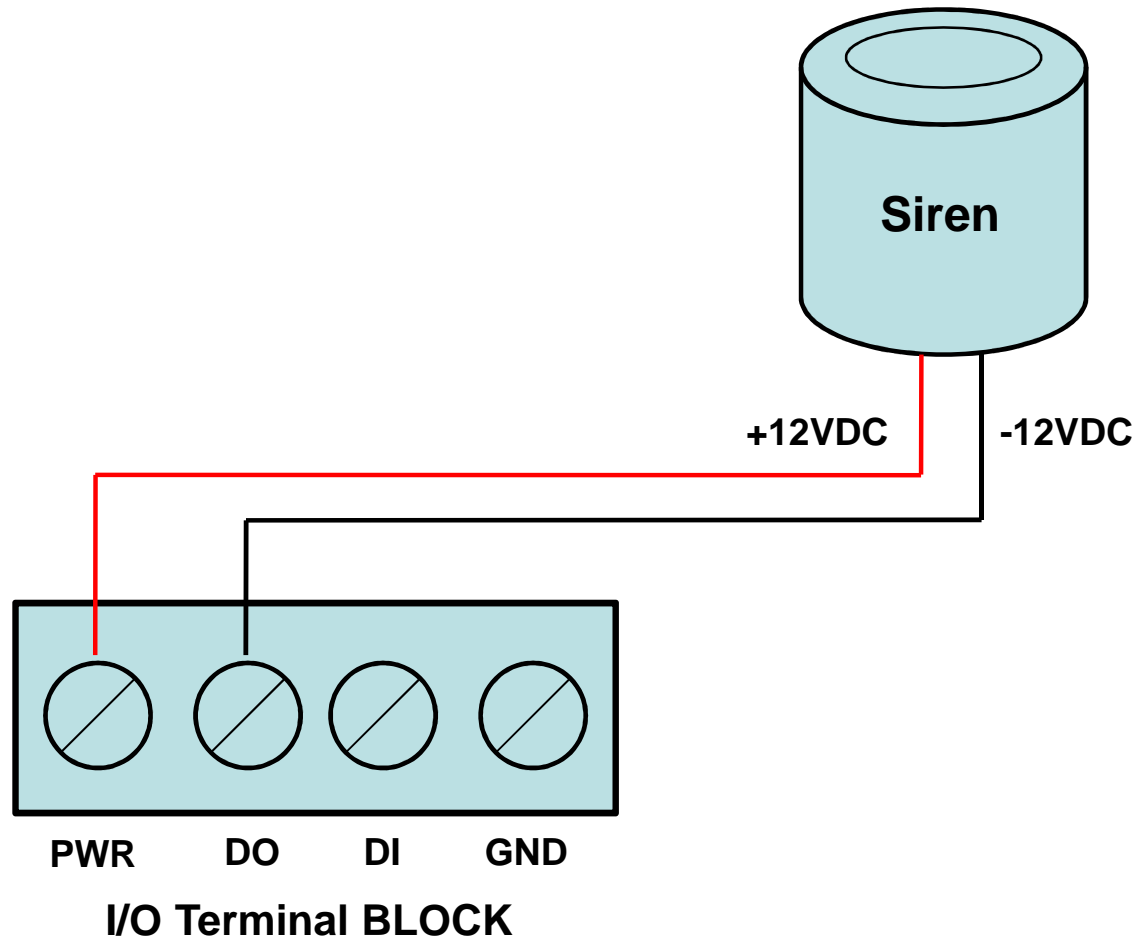
This example shows how to wire a PIR Detector to I/O Terminal BLOCK.

Connecting of PWR is a optional, you can use the alarm device with a external power supply.



Example For Connecting a Alarm Device

This example shows how to wire a Siren to I/O Terminal BLOCK.



Example For Connecting a Device with Relay

This example shows how to wire a device to **I/O Terminal BLOCK** with a Relay and the device use a external power supply.

