

# How to Use Bivocom Gateway to Take Snapshot from IP

# Camera

## The Critical Role of IP Cameras in Modern Security

IP cameras have become indispensable for real-time surveillance, threat detection, and evidence collection across homes, businesses, and public spaces. Unlike traditional analog systems, they offer high-resolution video, remote accessibility via networks/AI analytics, and seamless integration with smart ecosystems. Key applications include:

- Proactive Monitoring: 24/7 vigilance for theft/vandalism prevention.
- Remote Oversight: Access feeds from smartphones/cloud platforms anywhere.
- Automated Alerts: Motion detection triggers instant notifications.
- Forensic Support: HD footage aids post-incident investigations.

## **Bivocom's Customized Firmware: Optimized for IP Camera Ecosystems**

To overcome compatibility hurdles and enhance functionality, Bivocom Router/Gateway deploys dedicated firmware tailored for mainstream IP cameras. Our solution delivers One-Click Snapshot Integration, Expanded Customizable Features and Enterprise-Grade Reliability. This document will tell you how to setup Bivocom TR341 to trigger snapshot capture from Hikvision Camera and send to FTP server.

## **Prerequisites:**

## Hardware&Software

1x Bivocom Router/Gateway(TR341 in this case), 1x IP Camera(Hikvision which supports ISAPI), 2x Network Cable, Power Adapters(For router and camera). TR341 installed with the firmware which supports IP camera snapshot capture.

## **Step-by-Step Instructions**

## Settings on Bivocom TR341:

## 1. Setup-->WAN

Connect PC and LAN port of TR341 with network cable, enter WEBUI(192.168.1.1) of TR341, click Setup-->WAN to select network type. In this case, I use DHCP for network connection.

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➢ View ✓ Setup	WAN Settin	WAN Setting On this page, you can configure WAN port connection type						
WAN	On this page, you can							
LAN	WAN Interface							
Wireless Wireless Client Online Detection	General Settings	Advance	ed Settings					
Diagnostics	Connect	ion Type	DHCP 🗸					
> Secure > VPN	Hostname of DHC	P Server	router					
> Advanced								
> Data Collect								
> Administrate			Saus & Apply Saus Deset					
> Debug			Save & Apply Save Reset					
Logout								

## 2. Setup-->LAN

Enter Setup-->LAN page, make sure the IP camera and the LAN of TR341 are in the same network

### segment.

>	View Setup	Interfaces - LAN On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use <u>VLAN</u> notation INTERFACE. VLANNR (e.g.: eth0. 1).						
	WAN							
	LAN							
	Wireless Client	Common Configuration						
Online Detection General Setup Advanced Settings								
	Diagnostics							
>	Secure	Protocol	Static address v					
>	VPN	15 ( )						
$\geq$	Advanced	IPV4 address	192.166.1.1					
>	Data Collect	IPv4 netmask	255.255.255.0					
>	Administrate							
>	Debug	DNS Servers						
Lo	gout							

### 3. Data Collect-->Basic Setting

Click Data Collect menu, enter Basic Setting page, here we need to enable Data Collect function. Collect Period will be the interval of snapshot capture, and Report Period will be the interval of sending snapshots to FTP server. Here we set 60s for both, means router will trigger snapshot capture and send them to FTP server every 60 seconds.

>	View	Basic Setting			
>	Setup	Lucio coming			
>	Secure	Data Collect	Enable O Disable		
>	VPN	Collect Period	60 @ 5	Seconds	
>	Advanced				
$\sim$	Data Collect	Report Period	60 @ S	Seconds	
[	Basic Setting				
	Interface Setting	Enable Cache	Cache History Data		
	Modbus Rules Setting				
	Data query				
>	Administrate				ave & Apply Save Reset
>	Debug				
Lo	gout				

### 4. Data Collect-->Interface Setting

In order to setup IP camera's settings, we need to get into Data Collect-->Interface Setting to enter the specific IPC Device Setting. Different IP camera can be separated by different IPC Device number.

In this case, the server address is 192.168.1.64 which is the IP of camera, Port 80(HTTP), then fill 2 / 4

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with Username and Password, click Save&Apply after all settings are confirmed.

> View	Interface	Setting			
> Setup					
> Secure	COM1/RS485	COM2/RS232			
> VPN					
> Advanced		Enabled O Enable 🖲 Disable			
arsigma Data Collect					
Basic Setting Interface Setting	TCP Device Setting				
Modbus Rules Setting Server Setting	TCP Device1	TCP Device2 TCP Device3 TCP Device4 TCP Device5			
Data query  Administrate		Enabled 🔿 Enable 🖲 Disable			
> Debug					
Logout	IPC Device	Setting			
		South			
	IPC Device1	IPC Device2 IPC Device3 IPC Device4 IPC Device5			
		Enabled 💿 Enable 🔿 Disable			
	Se	rver Address 192.168.1.64			
		Port 80			
		Usemame admin			
		Password wp5566911			

### 5. Data Collect-->Server Setting

Enter Server Setting page, here we should enable FTP server, and fill with FTP URL. URL will include username/password, IP address of FTP server, port and path. Click Save&Apply after all settings are confirmed.

Notice: Only one FTP Server can be enabled of this firmware version, if you need more FTP server to receive snapshots, please contact Bivocom Technical Support team for further help.

> View	Server Set	Server Setting						
> Setup								
> Secure	Server1 Settings	Server2	Settings	Server3 Settings	Server4 Settings	Server5 Settings		
> VPN								
> Advanced		Enabled	Enab	le O Disable				
✓ Data Collect		Protocol	FTP		~			
Basic Setting								
Interface Setting		FTP URL	ftp://admi	n:admin@192.168.1	.173:			
Modbus Rules Setting								
Server Setting								
Data query								
> Administrate							Save & Apply Save Reset	
> Debug							Save a Apply Save Reset	
Logout								

#### 6. FTP Server

Keep FTP Server running and enable data upload, after a while, we should able to see the snapshots sent by TR341. The snapshot will be named by the timestamp when it was captured.

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