

Introduction

AP58GV3 is a 5G wireless bridge developed by Optiview for CCTV surveillance equipment. It is an easy-to-use yet delivers a complete CCTV solution for creating highly scalable, end-to-end systems of network devices including IP cameras, DVR and network video recorders. The maximum wireless data speed is 900Mbps. It is suitable for long distance environment with a farthest transmission distance of 1.2 miles or 2 Km with clear line of sight. Point-to-point wireless transmission helps you leverage installation cost associated with wired network structure. It support passive PoE power supply which makes the installation simpler, quick and easy.

Features

- **Maximum 1.2 miles (2 Km)Wireless Data Transmission**

Point to point stable wireless transmission mode with clear line of sight. AP58GV3 allows you to easily deploy IP surveillance cameras and other CCTV equipment across multiple locations for day or night surveillance, indoors or outdoors.

- **5G frequency band with less interference and unwavering wireless signal**

Delivers considerably better performance for your project coverage area and a lesser amount of interference with nearby WiFi access points.

- **Built-in industrial directional antenna.**

Equipped with a professional-grade directional high-gain dual-polarized antenna with a wider range of wireless coverage.

- **External PA and LNA**

External American Skyworks PA and LNA, more suitable for long distance transmission

- **Solid Cap**

Design with Solid Capacitors to support better equipment stability and longer life.

- **Outdoor design**

It can easily handle harsh outdoor environment with its professional weather resistant case shell design and up to 8KV lightning protection.

- **Easy to use**

The default setting configured two access points paired for bridge connections to give users a real plug and play device.

Product Specification

CPU	Industrial Chipset
Flash	8 Mbyte
DDR	64MB DDR2
Frequency	5.15~5.25GHz、 5.735~5.835GHz
Wireless Standards	802.11a/n/ac
Wireless Speeds	Up to 900Mbps
Transmission Power	MAX 20dBm
Maximum transmission distance	1.2 miles or 2 Km.(point to point) with clear line of sight environment
Multi-port transmission	Support 2 network ports; Default setting point to point
receive sensitivity	Up to -97dBm
Port	2 x 10/100M adaptive LAN ports, LAN1 support 24V Passive PoE power supply
Button	reset (long press 5-10 seconds to restore default setting)
LED	Radio signal: all bright signal best LAN indicator light: the bright represents the connection; the deputies are not connected; the flicker represents the data transmission; Power indicator light: on behalf of the system on the electricity; the failure to represent the power;
Antenna	Built-in 5G directional dual polarized antenna, gain: 14 dBi Horizontal angle: 40 degrees; vertical angle 30 degrees
Power Consumption	< 7W
Dimensions	7.8" * 4.3" * 2.4"
Environment	Operating Temperature: : -22°F~125°F Storage Temperature: : -40°F~150°F Operating Humidity: 10% ~ 90%RH non condensation Storage Humidity: 5% ~ 90%RH non condensing Support power on at -40°F

3. Enter Wireless Access configuration and customize according to your local preference or application.

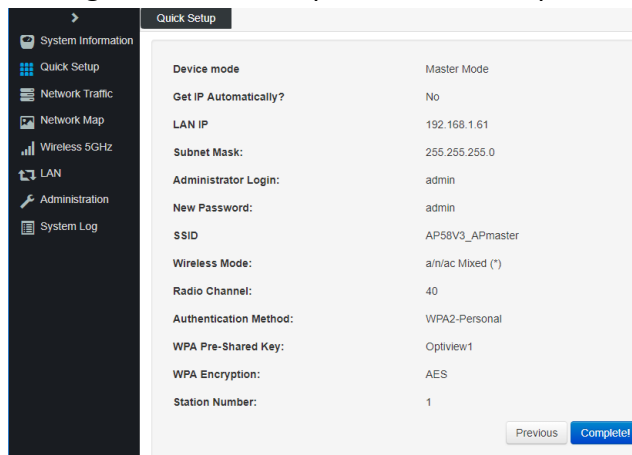
The screenshot displays the 'Quick Setup' configuration page. On the left is a dark sidebar with navigation options: System Information, Quick Setup (highlighted), Network Traffic, Network Map, Wireless 5GHz, LAN, Administration, and System Log. The main content area is titled 'Quick Setup' and contains the following fields:

Radio Channel:	40
SSID	AP58V3_APmaster
Wireless Mode:	a/n/ac Mixed (*)
Channel Bandwidth:	20/40 MHz
Extension Channel:	Auto
Authentication Method	WPA2-Personal
WPA Encryption:	AES
WPA Pre-Shared Key:	Optiview1
Station Number:	1 [1..32]

At the bottom of the form are two buttons: 'Previous' and 'Next'.

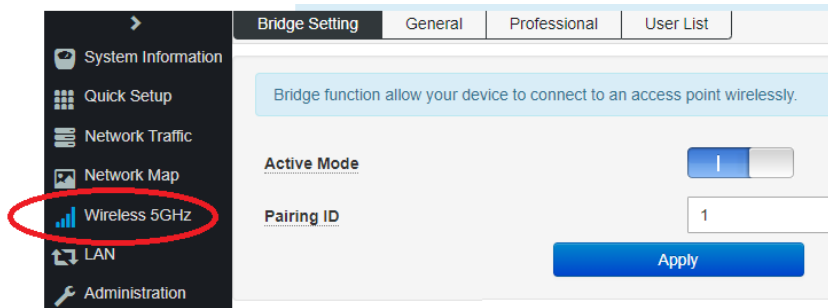
- 4.1 Radio Channel – should match later on with the partner access point;
- 4.2 SSID – you may customize your SSID name for later WiFi identification;
- 4.3 Wireless Mode – select your preferred mode: a/n/ac or mixed;
- 4.4 Channel bandwidth – this setting is preferred to match the partner access point;
- 4.5 Extension channel – leave it in Auto mode;
- 4.6 Authentication & Encryption mode – select your preferred WIFI authentication and data encryption mode.
- 4.7 WPA Pre-shared Key – enter your own key or passphrase.
- 4.8 Station number – assign number of client stations to be linked to the master or number which will be an identifier for this AP.

5. Review settings and click “Completed” to finish quick setup.



6. Click “Wireless 5GHz” and set the pairing ID for the access point.

IMPORTANT! → Pairing ID must match with the partner access point



Important Wireless Bridge Notes:

- Master and slave's pairing ID must be the same;
- Master and slave channel must be consistent;
- The master and slave wireless passwords must be the same;
- Point-to-multipoint mode must be configured in the same way for all access points, and the Pairing ID number of each slave must be the same as that of the Master AP.