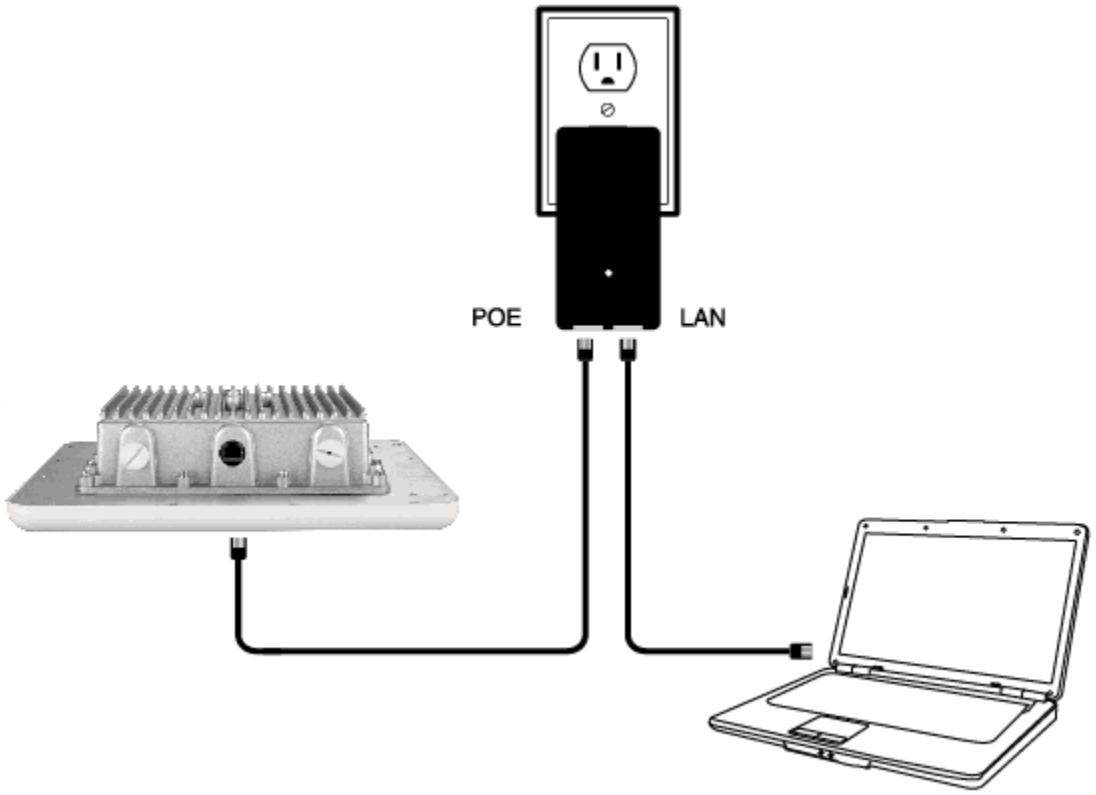
AP500M 300Mbps, 5.8Ghz Long-Range Outdoor Network Video Bridge

Thank you for your choice of Speco Technologies' **AP500M** Network Video Bride. This unit is designed and manufactured to provide an efficient and high-powered long-distance network video bridge. Since this accessory was designed initially as a means to wirelessly send a camera video signal up to 6 miles, this quick start guide focuses on that specific feature of the unit. The **AP500M** has networking capabilities beyond that, so if you are interested in using this unit as an access point or repeater, please contact our Technical Support department for complete instructions. These units are sold each, but for point-to-point operation must be used in conjunction with a second **AP500M**.

Included in box: 1 x **AP500M**, 1 x 24V PoE Injector, 1 x Mounting Bracket, 2 x Pole-Mounting Bracket Set, 1 x Cable Gland, 4 x Screws

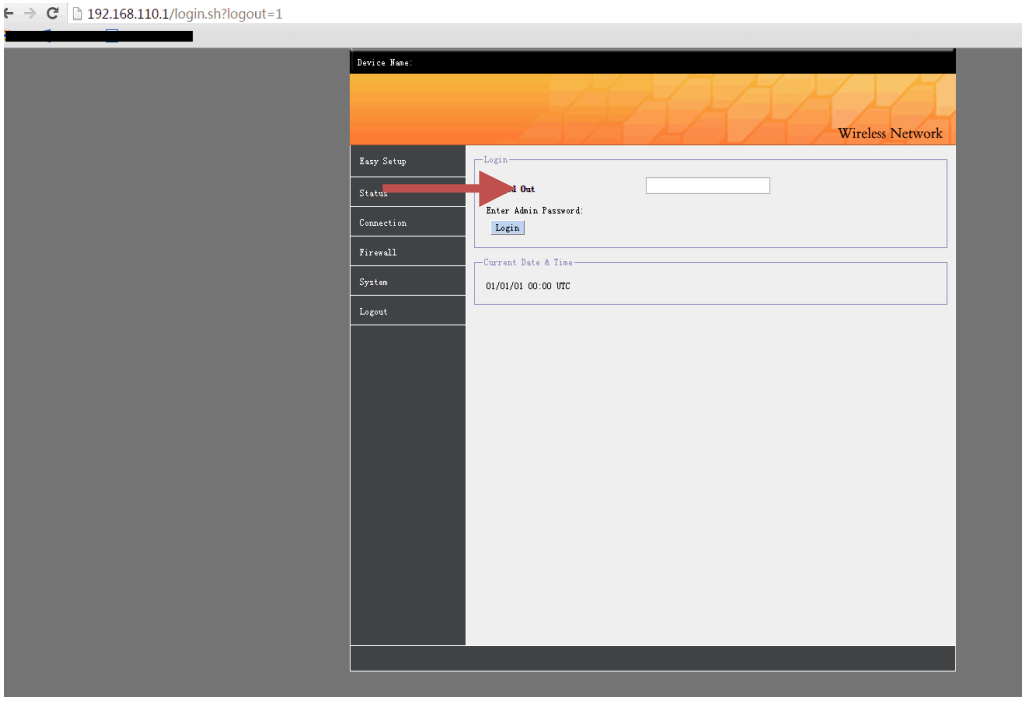
Initial Setup

1) Connect the **AP500M** with a computer. The unit includes a PoE injector. The PoE side should be connected to the **AP500M** through the middle opening. The LAN side should connect to your computer.



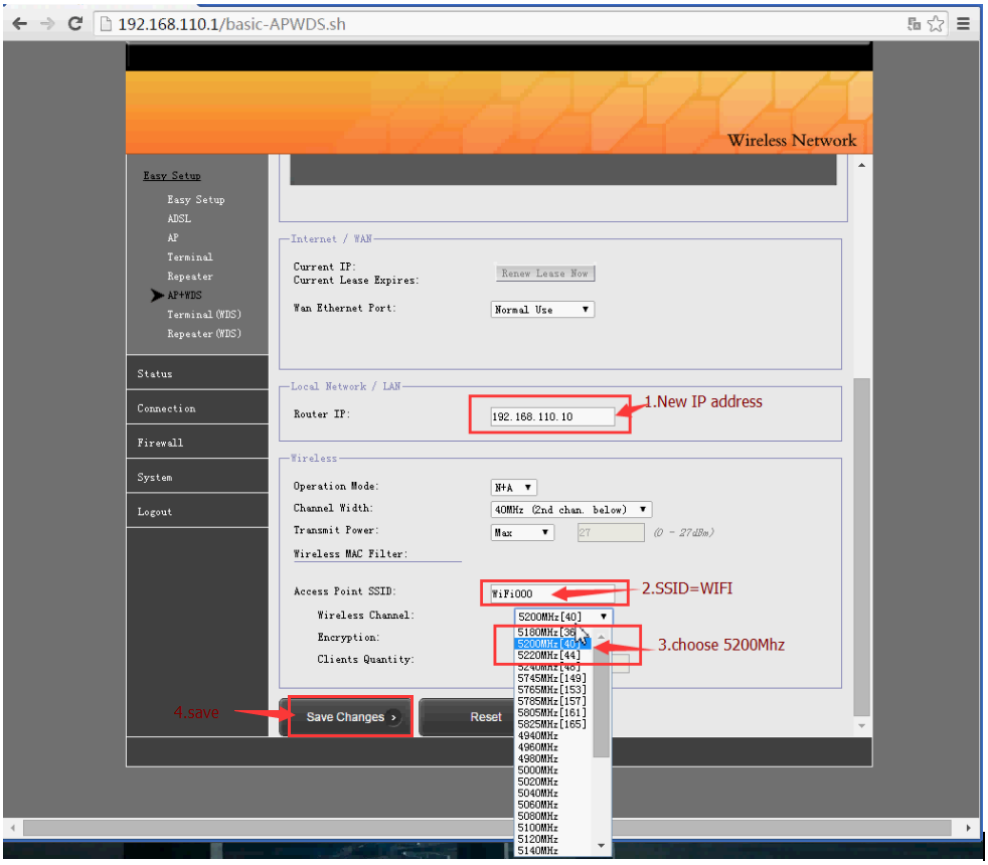
2) Enter the network properties of your computer and change the IP address to somewhere in the 192.168.119.XXX range, with XXX being any number but 1.

3) Once your computer indicates the two units are networked, open your Web browser. In the address bar, enter 192.168.110.1. You should see something like the page below. In the password field, enter "password".

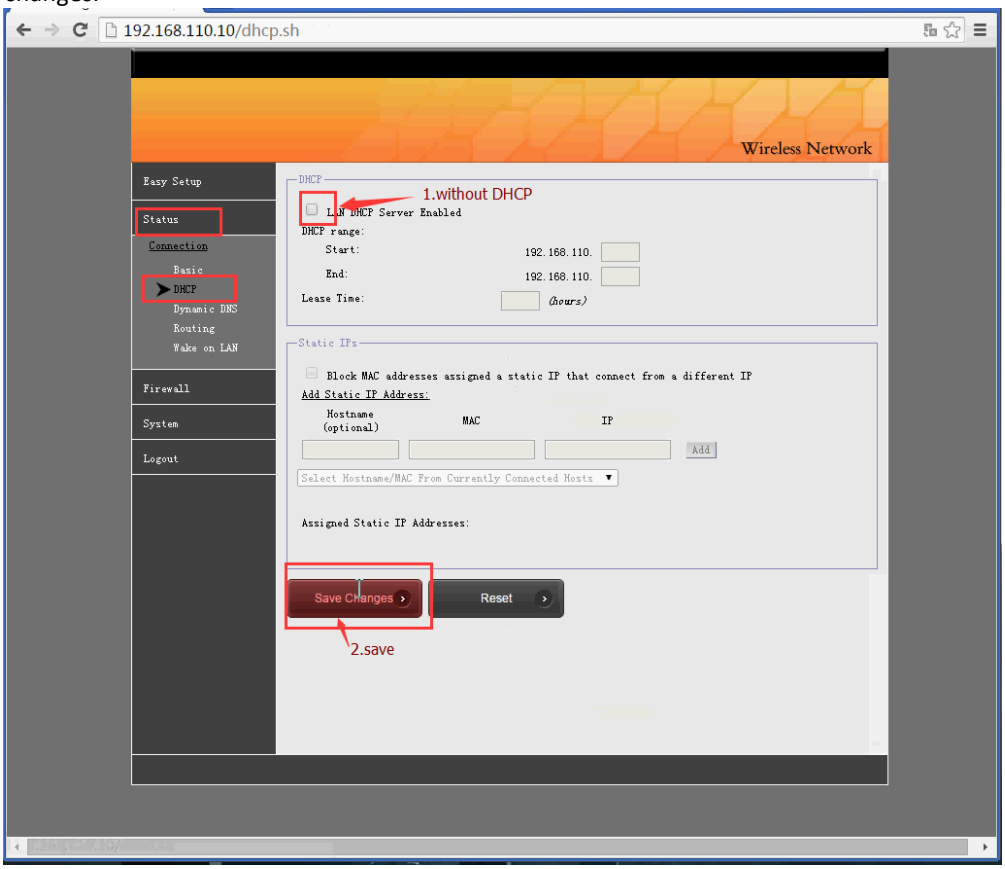


NETWORK-SIDE SETUP

4) Click on the "Easy Setup" tab and then click on AP+WDS. Here, you can change the IP address of the **AP500M**, as well as assign it an SSID, wireless channel, and encryption with password. (all necessary steps). Please note this SSID will be open and accessible so it's strongly suggested you utilize encryption to protect your data. Save your changes.



5) Next, click on the “Status” tab, and then click on “DHCP”. Here please ensure that the “LAN DHCP Server Enabled” checkbox is unchecked. We do not want DHCP enabled for the point-to-point operation. Save your changes.

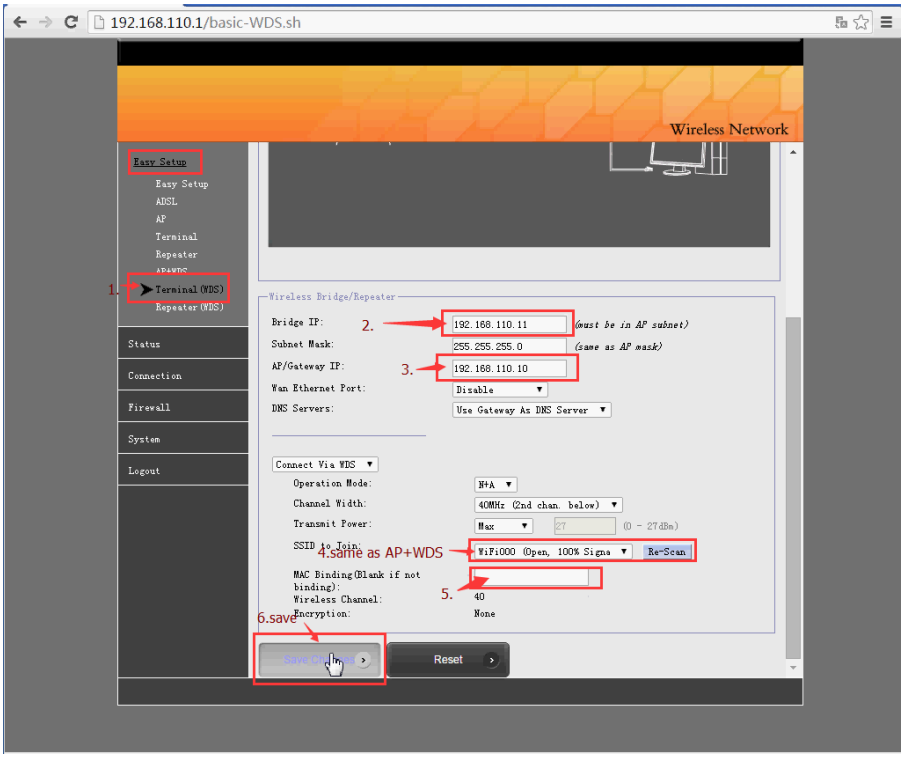


6) To ensure all your changes have been saved, click on the “Overview” link and note your wireless mode says “AP+WDS” and your SSID matches what you entered.

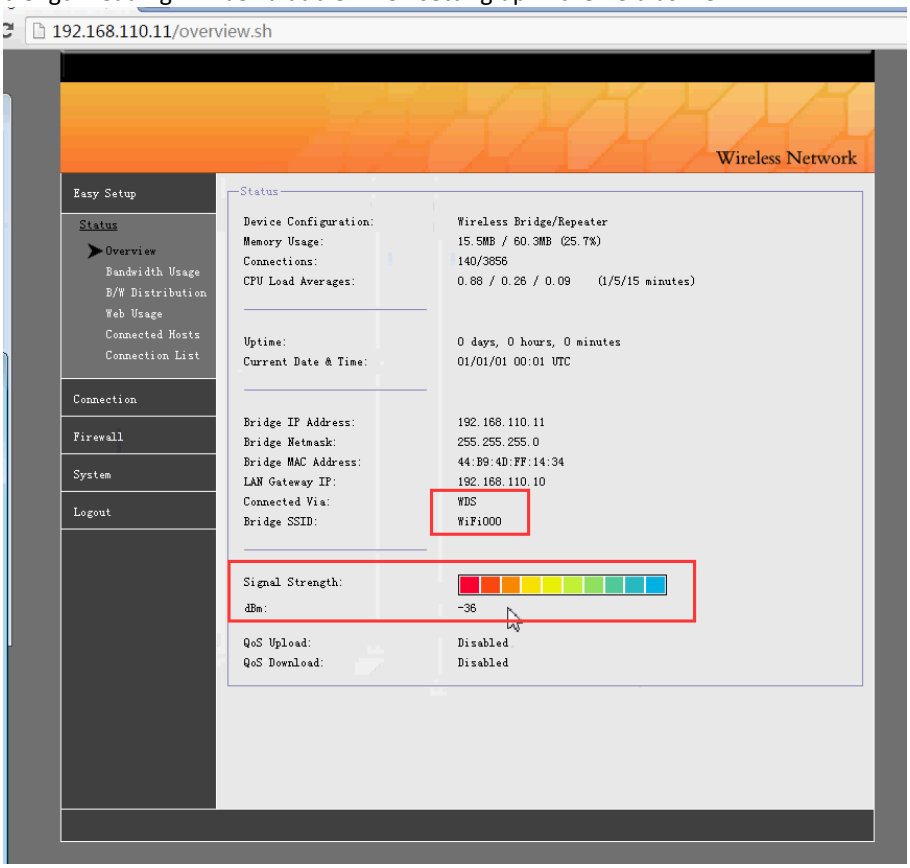
CAMERA-SIDE SETUP

7) You will need to setup your second **AP500M** as a Terminal (WDS). Disconnect your computer from the original **AP500M**, but leave that unit powered and connected to the PoE injector. Repeat steps 1 to 3 to begin setup of the second **AP500M**.

8) Under the “Easy Setup” tab, click on the “Terminal (WDS)” link (step 1 in diagram). Assign this unit an IP address (Step 2 in diagram. Be sure it’s different than that of your first **AP500M** and of your computer). To let this second **AP500M** know which unit it has to pair with, the IP address of the original **AP500M** access point should be entered in the “AP/Gateway IP” field. (Step 3). Click on the dropdown of the “SSID to Join” field and look for the SSID you created. It will likely be at 100% signal strength and near or at the top of your list. Select this SSID. (Step 4). Ensure the Mac Binding field is blank (Step 5). Save your changes. (Step 6). Enter the encryption information and password to match that of your first **AP500M** if you chose to encrypt your connection.



9) Your units should now be paired. You will be able to confirm this by clicking on the “Overview” link under the “Status” tab. The “Connected Via:” field should read “WDS”. The Bridge SSID should match that of what you set up. Finally, the signal strength indicator should be active, colored and maxed out. This signal strength reading will be valuable when setting up in the field as well.



SPECIFICATIONS

Chipset	Atheros AR9344 600MHz			
DRAM	DDR2 64MByte			
FLASH	8MByte			
Port	10/100/1000Mbps LAN*1			
Speed	11a:54M,48M,36M,24M,18M,12M,9M,6Mbps			
	HT20:7.2M,14.4M,21.7M,28.9M,43.3M,57.8M,65M,72.2M,14.4M, 28.9M,43.3M,57.8M,86.7M,115.6M,130M,144.4Mbps			
	HT40:15M,30M,45M,60M,90M,120M,135M,150M,30M,60M,90M,120M, 180M,240M,270M,300Mbps			
Modulation	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK			
Standard	IEEE802.11a,IEEE802.11n,IEEE802.3u, 802.3at			
Protocol	CSMA/CA,TCP/IP,IPX/SPX,NetBEUI,DHCP,NDIS3,NDIS4,NDIS5			
Channel	4900～6100MHz			
Power	POE 24V 1A			
RF @25℃±2dB	802.11a	6-24Mbps	27±2dBm	
		36-48Mbps	26±2dBm	
		54Mbps	24±2dBm	
	802.11n	HT20	MCS 0-3	27±2dBm
			MCS 4	26±2dBm
			MCS 5	25±2dBm
			MCS 6	25±2dBm
			MCS 7	25±2dBm
		HT40	MCS 0-3	27±2dBm
			MCS 4	26±2dBm
			MCS 5	26±2dBm
			MCS 6	25±2dBm
			MCS 7	25±2dBm
Sensitivity	802.11a	6Mbps ≤ -89 ； 54Mbps ≤ -73		
	802.11n	HT20	MCS 0 ≤ -86; MCS 7 ≤ -68	
		HT40	MCS 0 ≤ -83; MCS 7 ≤ -65	
Antenna	Frequency	4900～6100MHz		
	Direction	Horizontal or Vertical		
	Gain	23DBi		
Management	WEP management	Yes		
	SNMP MIB	Yes		
	Telnet	Yes		
	Serial	Yes		
Security	MAC address control	No		
	Encryption	WEP 64/128bits,WPA,WPA2,802.1x		
Working condition	Operating temperature	-22~149°F		
	Storage Temperature	-58~176°F		
	Humidity (non-condensed)	≤95% （NA）		

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We reserve the right to modify product design and specifications without notice and without incurring any obligation.

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