# WFRCONTROL PAIRING
Setting Up WFRControl

WHAT IS WFRCONTROL?

WFRControl is the feature that allows a master WiFiRanger to manage and control a secondary WiFiRanger. This is used in packs that generally include both indoor and outdoor routers. It is preferable to Scan and Join using the outdoor router which is generally the slave. This can be done conveniently from the master's Control Panel once WFRControl is properly setup.

Examples of packages that use WFRControl
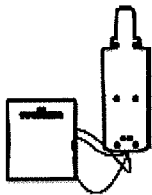
Marine Pack - Go (master) & Marine (slave)
RV Pack - Go (master) & Mobile (slave)
RV Pack^2 - Go^2 (master) & Sky (slave)
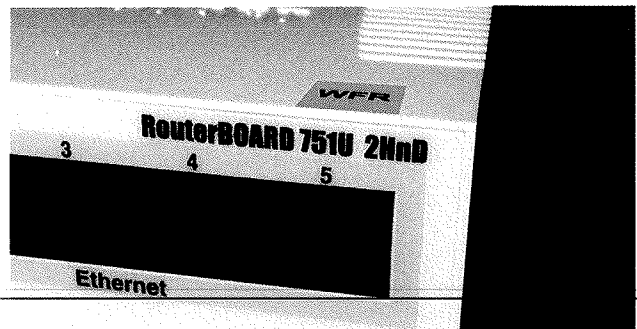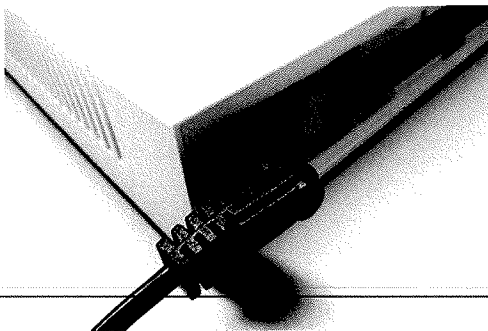**RV Pack^{Ti}** - Go^2 (master) & Mobile^{Ti} (slave)
IR Pack - IR (master) & Sky (slave)
IR Pack^2 - IR^2 (master) & Sky (slave)

STEP 1

Power both units and wait a couple minutes

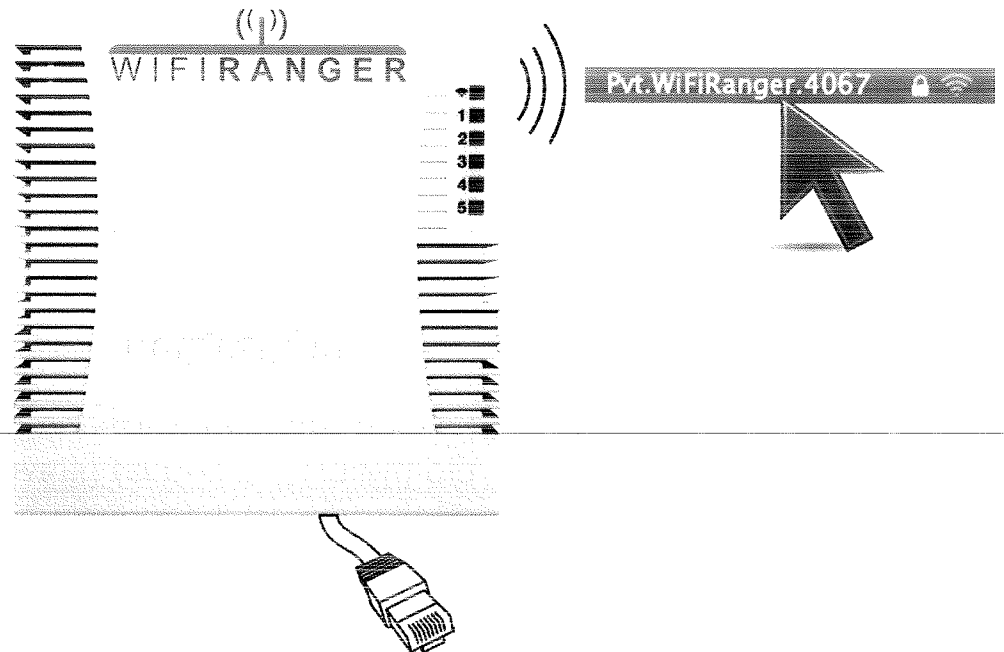PLUG POWER INTO MASTER AND PLUG SLAVE INTO MASTER'S 5TH PORT IN MOST CASES

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STEP 2
Connect to master via LAN or WiFi

THE MASTER MUST BE USED FIRST TO SETUP WFRCONTROL

STEP 3
Go to the master's Control Panel in web browser

USE CONTROL PANEL ADDRESS FROM INCLUDED DOCUMENTATION OR CREATE THE ADDRESS BY DEDUCING IT FROM THE MASTER'S ID NUMBER BASED ON THE FORMAT 77XXYY TO 10.1XX.YY.1:8080

FOR EXAMPLE: 77**4067**
   10.1**40.67**.1:8080

774067 Control Panel

← → C 10.140.67.1:8080

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WIFIRANGER
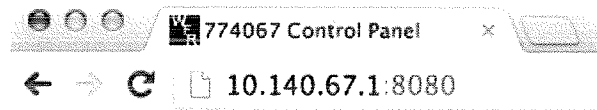
STEP 4

Go to the master's Setup tab

REMEMBER THAT WFRCONTROL MUST BE SETUP FROM THE MASTER TO THE SLAVE

| Main | WiFi | Setup | Fusion | Advanced | Status |
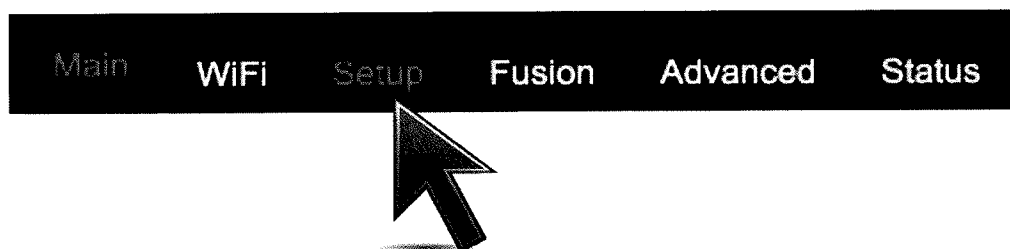
STEP 4

Check WFRControl as Active

SKIP TO NEXT STEP IF WFRCONTROL IS ALREADY ACTIVE

WFRControl

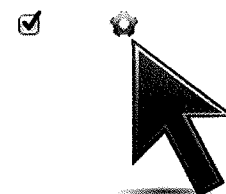## STEP 5

Expand WFRControl Settings

THE GEAR ICON FOR SETTINGS CANNOT EXPAND UNLESS WFRCONTROL IS ALREADY ACTIVE

WFRControl

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STEP 6

Select Ethernet or WiFi for Control Over

ETHERNET IF SLAVE IS HARDWIRED TO MASTER AND WIFI IF SLAVE POWERED INDEPENDENTLY

WFRControl

- Control Over   ⦿ None ○ Ethernet ○ WiFi
- Speedtest   Medium Download (1 MB) ⟂
- Slowest Usable Speed   Disabled

STEP 6.2 (ONLY IF WIFI WAS SELECTED)
Select slave WiFiRanger from Controlled WiFiRanger SSID list

LIST SHOWS ALL NETWORKS IN RANGE OF MASTER AND CAN BE REFRESHED WITH SCAN BUTTON

WFRControl

- Control Over
- Controlled WiFiRanger SSID
- Controlled WiFiRanger WPA Key
- Speedtest
- Slowest Usable Speed

WPA Networks Only   'Fi

✓   Scan

BN Guest Network
Belkin_
Pvt.WiFiRanger.2489
Boyle Network
CPR_Idaho

STEP 6.3 (ONLY IF WIFI WAS SELECTED)
Enter password of slave in Controlled WiFiRanger WPA key field

WFRControl

- Control Over   ○ None ○ Ethernet ⦿ WiFi
- Controlled WiFiRanger SSID   Pvt.WiFiRanger.2489 ⟂ Scan
- Controlled WiFiRanger WPA Key changemenow2489
- Speedtest   Medium Download (1 MB) ⟂
- Slowest Usable Speed   Disabled ⟂

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WIFI RANGER

STEP 7

Click Save at bottom left of Setup tab

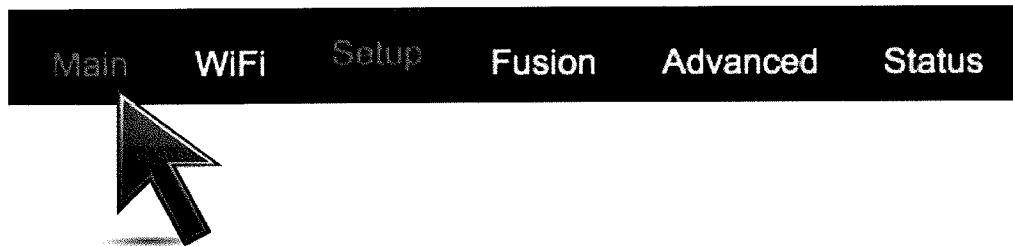IT MAY TAKE UP TO A MINUTE FOR WFRCONTROL TO CONFIGURE

WFRControl Status

Configured
Controlling 772489 over Ethernet

Save

STEP 8

Go to the master's Main tab

PROCEED ONLY IF SLAVE IS CONTROLLED BY MASTER AND READY FOR ACTION OR
TROUBLESHOOT WFRCONTROL USING APPENDIX IF CONFIGURATION AFTER STEP 7 FAILS

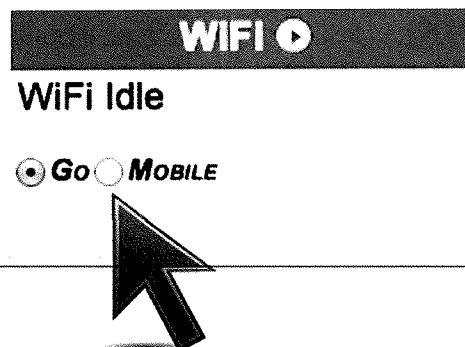| Main | WiFi | Setup | Fusion | Advanced | Status |

STEP 9

Select slave rather than master in WiFi box

TOGGLE BETWEEN THE MASTER (LEFT) AND SLAVE (RIGHT) TO SCAN AND JOIN USING THE
SELECTED ROUTER'S WIRELESS RADIO AND CAPABILITIES

GENERALLY, THE SLAVE SHOULD ALWAYS BE SELECTED AS THE OUTDOOR UNIT PROVIDES MORE
WIFI RANGE AND PERFORMANCE

WIFI ○
WiFi Idle

◉ Go ○ MOBILE

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OPTIONAL STEP 10 (RECOMMENDED)
Go to the master's Setup tab and move WFRControl up in Order

IT IS RECOMMENDED TO HAVE WFRCONTROL HIGHER IN PRIORITY THAN INTERNAL WIFI

Order		Device	Swap Connection ?	Standby ?	Active	Settings
1	▼	Ethernet WAN	to Nothing ⬍		☑	⚙
2	▲ ▼	Internal WiFi	to Nothing ⬍		☑	⚙
3	▲ ▼	Cellular	to Nothing ⬍		☑	⚙
4	▲	WFRControl	to Nothing ⬍		☑	⚙

CONCLUSION
Now you have the simple, unified control of two WiFiRangers from the Control Panel of the master. WFRControl also combines the networks of both WiFiRangers, meaning devices connected via LAN or WiFi to *either* unit will be interconnected at all times. WFRControl makes the most of both indoor (master) and outdoor (slave) capabilities.

Advantages of WFRControl

- **Controlling Slave**
- **Combined Network**
- **Indoor/Outdoor Capabilities**

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WIFIRANGER

TROUBLESHOOTING APPENDIX
Follow these instructions if the above Steps did not work

TROUBLESHOOT 1
Verify both WiFiRangers are on matching firmware (required to work)

FIRMWARE VERSION IS FOUND ON TOP RIGHTHAND CORNER OF CONTROL PANEL AND UPDATE LINK IS FOUND IN THE SAME AREA SHOULD THE UNITS REQUIRE AN UPDATE FOR WFRCONTROL

TROUBLESHOOT 2
Reset both WiFiRangers to Factory Default Settings on Setup tab

CONNECT TO MASTER AND SLAVE TO INDIVIDUALLY TO RESET EACH THEN REBOOT ONCE DONE

TROUBLESHOOT 3
Ensure there is no confusion between master and slave

IN SOME CASES, JUST TAKE SOME TIME TO THINK THROUGH A STEP, KEEPING IN MIND WHICH UNIT YOU'RE CURRENTLY CONNECTED TO AND FOLLOW EACH STEP WHILE CLOSELY DISTINGUISHING BETWEEN MASTER AND SLAVE

TROUBLESHOOT 4
Contact a WiFiRanger support representative

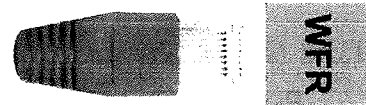QUESTIONS@WIFIRANGER.COM OR WWW.WIFIRANGER.COM

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POWERING

POWERING OUTDOOR ROUTER

1 Plug Sky's ethernet cable into WFR port

ENSURE SKY IS PLUGGED IN BEFORE POWERING UP (KEEPS WFRCONTROL SYNCED)

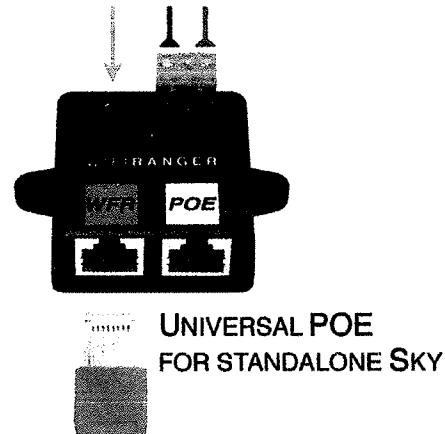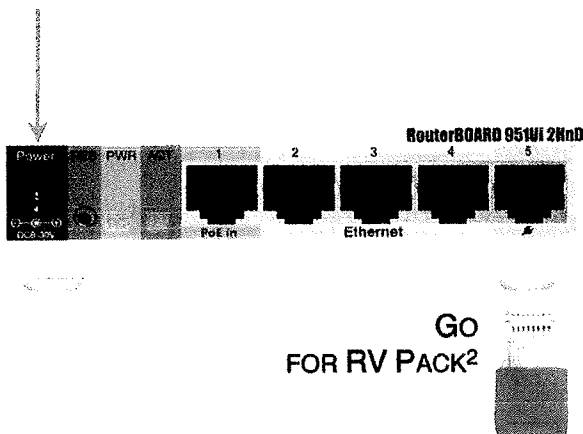**2** Power Go or Universal POE using **110V AC** or **12V Battery** power

110V AC
Plug 12V output AC adapter into DC power port

12V Battery
Connect **red** wire to positive and **black** to ground

RouterBOARD 951Ui 2HnD

Go
FOR RV PACK²

UNIVERSAL POE
FOR STANDALONE SKY

RV PACK² TIP
The WiFiRanger Go and Sky are made to pair together using the WFRControl feature. This allows for seamless control and interconnecting of both units. WFRControl is configured on the WiFiRanger Go's Control Panel so that you can Scan then Join a WiFi Network using the Mobile.

The RV Pack² also allows for a clean installation, with the Sky receiving power from the Go.

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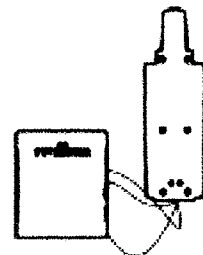
WiFiRanger

WiFiRanger Go²

Indoor router made for travel and powering outdoor WiFiRangers. The WiFiRanger Go² is enhanced from the original Go design, including improvements in processor power, wireless range, and visual indicators. These renovations provide for better USB Cellular support and dependable WFRControl powering. One visual distinction is the red port 5 LED which indicates that LAN port 5 is hot and ready to power a Power Over Ethernet device.
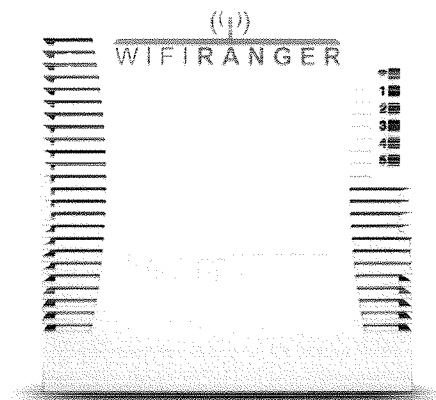
SPECIFICATIONS

BAND	2.4GHz	LAN	4x (10/100)
ANTENNA	INTEGRATED 2X2 MIMO	WAN	1X (10/100)
THROUGHPUT	UP TO 300MBPS	USB	1X *(AUTOMATIC CYCLING)*
STANDARDS	802.11 B / G / N	DIMENSIONS	113x138x29MM
BROADCASTS	1X PRIVATE / 1X PUBLIC	TEMPERATURES	-20C ~ +50C
ENCRYPTION	WPA2 PERSONAL 256BIT	POWER IN / OUT	8-30VDC / POE PORT 5

RouterBOARD 951Ui 2HnD

Power   PWR   1   2   3   4   5

PoE in   Ethernet