

RoadRunner Mobile Digital Video Systems

Tech Tip: IP Setup Directions

Connecting the RoadRunner Mobile DVR to a network (LAN, WAN, direct with a crossover cable, etc.) is not difficult, and you only need to know a few basic rules:

1. Each device on a network **MUST** have a unique IP address on that network.
2. To connect, the IP Addresses must be in the correct subnet range.
3. No two devices on the network can have the same IP Address.
4. The DVR has a default IP Address of 192.168.1.129.
5. Connecting **directly** from a laptop or PC to the DVR requires using a **Crossover** LAN cable.
6. All other connections require a straight-through LAN cable.

In this Tech Tip, we will look at three methods of connecting a RoadRunner DVR to a network:

- Direct Connection:** Useful for system set-up and for downloading video.
- Wireless Routers:** Enables a user to connect to a vehicle at very close range; For instance, a law enforcement official or investigator can park near a vehicle, connect with a wireless laptop and download the recording of an incident.
- Wireless Bridge:** Connect a DVR to a new or existing LAN infrastructure. This will enable a vehicle to parked in it's normal spot and be accessed from authorized computers on the network.

Note: Network Security is a concern. Please consult an IT professional for assistance in this area.

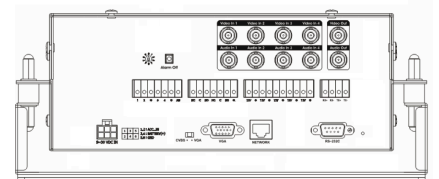
Any name-brand router or bridge that will run on 12 VDC should work well, and can be powered directly from the back of the DVR. In the following examples, we used a Netgear WGR614 router.

Direct Connection:

All functions, including downloading recorded video, can be easily done on the vehicle with a laptop computer, using a Crossover Cable. These cables are available from any computer store. Be sure that the laptop has an IP address in the same range, but not the exact same number, as the DVR. It cannot be set to "Obtain an IP address Automatically."

Connecting through a router:

A router, whether wireless or wired, allows the DVR to be accessed on a network with possible conflicting IP addresses, or to create a wireless connection. When setting up the DVR with a router, you must know the IP Address of the DVR and the router. You will actually connect your computer to the router IP address, NOT the DVR's IP address.



Connecting through a Bridge:

A bridge is sort of a network cable, but without the cable. In other words, though it may have some security functions, its purpose is simply to connect an IP addressable device to an existing network. The bridge does not provide an IP address; the device itself must have it's own network-unique IP address. The bridge provides an alternative method of connecting the device, instead of a cable.