

Question: How can I send IP CCTV cameras down 1 CO-AX cable, CAT5/6 or telephone cable?

Answer: Simply connect an IP Mule to either end of the cable and you get a network created from one end to the other! It can be used for IP cameras or any other network device you want to connect.

Alarm cables, CAT5/6 or telephone cables - The IP Mule doesn't mind!



IP Mule™

Simply connect an IP Mule to either end of the cable and you get a network created from one end to the other! It can be used for IP cameras or any other network device you want to connect.

There is no complex set up at all, just set one mule to be the TX and set the other to be an RX.

You can even send multiple IP cameras down the one cable using multiple IP Mules, the only limiting factor is the cable type you are using limits the bandwidth available (see Table A).

All the IP Mules are identical, each having a switch on it to make it in to either a TX (Transmitter) or an RX (Receiver). You can buy the mules in singles or pairs depending on your requirements.

Use almost any cable for IP cameras using the IP Mule...

Table A

Cable Type

	Co-Ax - RG59	CAT5/6	Telephone Wire	Alarm Cable
Distance				
300m	100 Mbps	78 Mbps	65 Mbps	60 Mbps
600m	90 Mbps	65 Mbps	55 Mbps	50 Mbps
1200m	78 Mbps	60 Mbps	35 Mbps	35 Mbps
1500m	50 Mbps	40 Mbps	25 Mbps	25 Mbps
2000m	30 Mbps	25 Mbps	15 Mbps	10 Mbps

Table A – Shows the maximum bandwidth available down different cables for the IP data. Typically a 1.3MP camera uses around 5 Mbps and a 2MP camera around 10Mbps.

So for example 300m of RG59 has a maximum bandwidth of 100 Mbps. This would allow up to $100/5 = 20$ x 1.3MP IP-cameras or 10 x 2MP IP-cameras. Cable quality varies tremendously so the above is a guide only.

This CCTV installation tip is aimed at helping you to install CCTV equipment. If you are looking for answers on "how to fit CCTV" or perhaps "how to network a DVR or NVR" or even "how to get CCTV on your mobile phone" why not check out our full range of CCTV installation tips at: www.systemq.com

How to guides aim to answer commonly asked questions in a concise and informative manner. They are for advice & guidance only and do not replace any of the manuals or other literature supplied with our products.

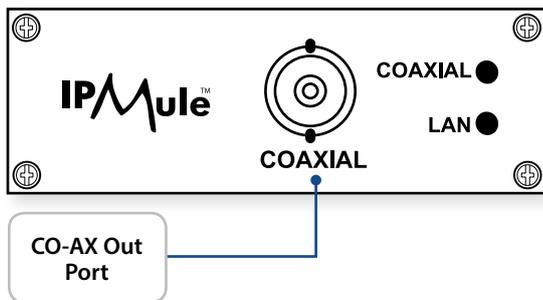


There is no complex set up at all, just set one mule to be the TX and set the other to be an RX.

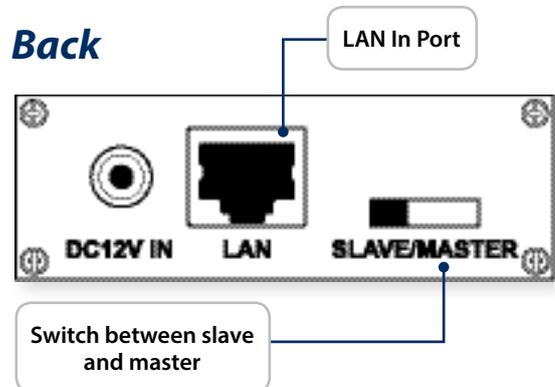
All the IP Mules are identical, each having a switch on it to make it in to either a TX (Transmitter) or an RX (Receiver). You can buy the mules in singles or pairs depending on your requirements.

The IP-MULE needs a 12V power supply at both ends but other than that, it's simple to use, with no real configuration to do.

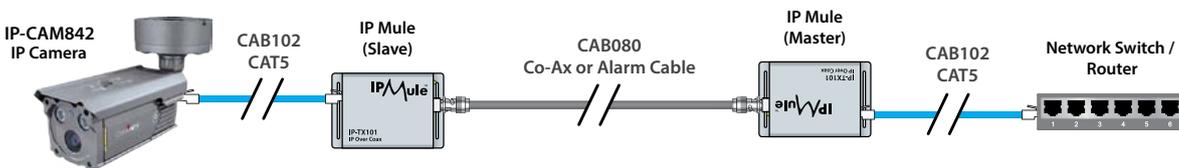
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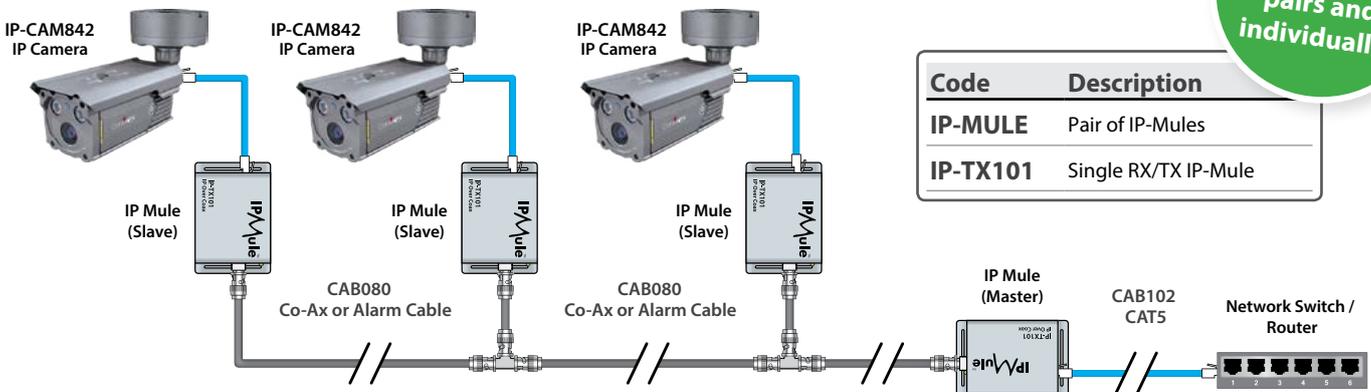
Back



Example 1: IP camera over CO-Ax



Example 2: Multiple IP cameras over Co-Ax (Number depends on bandwidth)



IP Mules are sold in pairs and individually!

Code	Description
IP-MULE	Pair of IP-Mules
IP-TX101	Single RX/TX IP-Mule

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