

HD MuleTM 4 Instructions

"Send 4 HD Video Signals Plus
Data Down 1x Co-ax Cable..."



...with a **HD MuleTM**

1x RG59
OUT

Compatible with
TVI, CVI, AHD
& Analogue



DATA OUT

**HD
MULE 4**

4x Video In

- TVI, CVI, AHD & Analogue
- Up to 4 videos down co-ax*
- Data combiner*
- Wall Mount Design
- Up to 125mtrs*
- Easy to setup



Scan the QR code for
more information or
visit CCTVmule.com

**It's the easy way to add extra
cameras to an existing installation!**

HD Mule4 Instructions
Order Code: **MULE104**

*as per instructions

Instructions - Instructions - Instructions

HD Mule Instructions



Carries multiple HD video signals - even data
- down ONE RG59 cable!

On installations where you have only one co-ax cable installed, the HD Mule makes it really easy to add extra cameras - it saves time, saves money & saves mess.

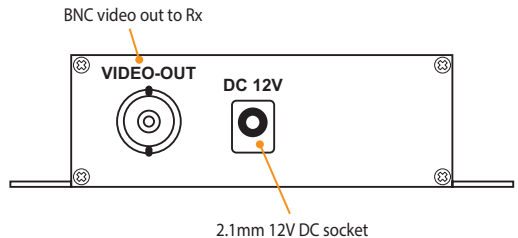
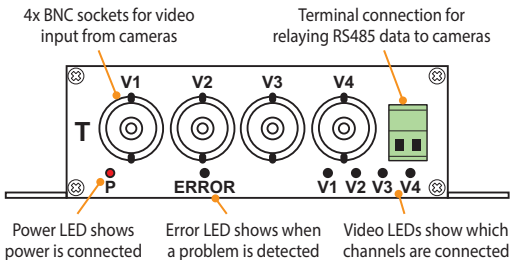
Perfect if you don't have access to run any more cables, even data cables, underground. The clever electronics of the MULE104 allow it to carry the RS485 data along the same RG59 Co-ax cable enabling the operator to monitor and control the system from a different location.

Using multi-signal technology the HDMule works with TVI, CVI, AHD and even analogue cameras for maximum flexibility.

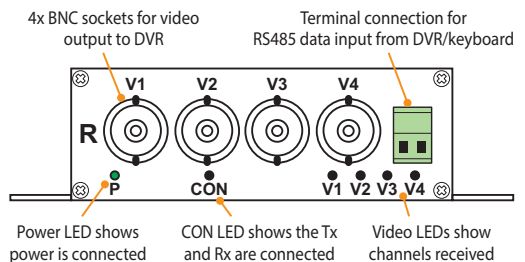
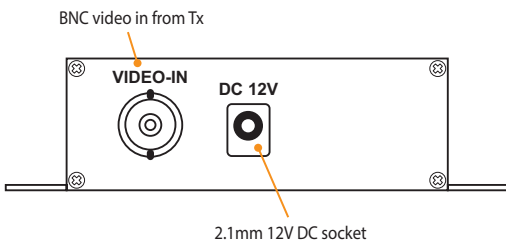
Please Note - some HD cameras (TVI, CVI and AHD) use "up the co-ax" menu control, because of how the HDMules work this "Co-axitron" will not work through the Mule, however on PTZ and similar cameras you can use the Mule's RS485 transmission to operate the camera.

Higher resolutions than the stated ones may work on shorter cable lengths but with so many variables involved like camera technology, distance, cable quality and frame rate, the maximum resolutions are stated for guidance. On most HD cameras you can adjust the output to suit and we suggest setting this to 2MP.

Connections - Transmitter (Tx)



Connections - Receiver (Rx)



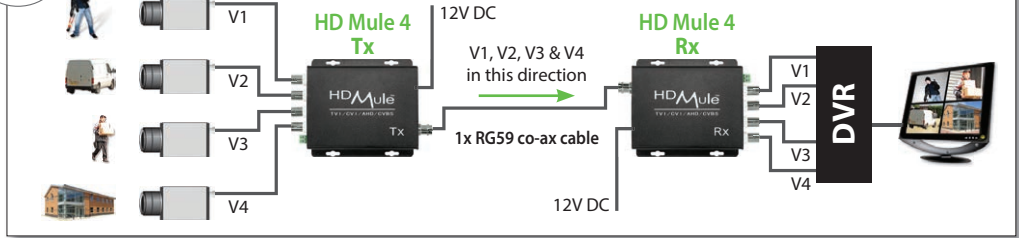
HD Mule Instructions

Operation Modes

The HD Mule 4 has the following 3 operation modes...

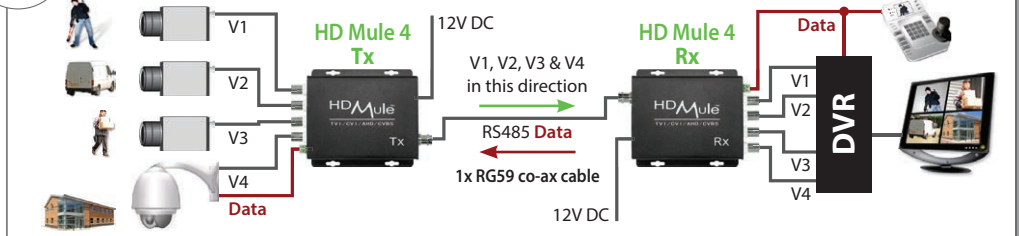
Mode 1

4 Video signals down 1 co-ax cable



Mode 2

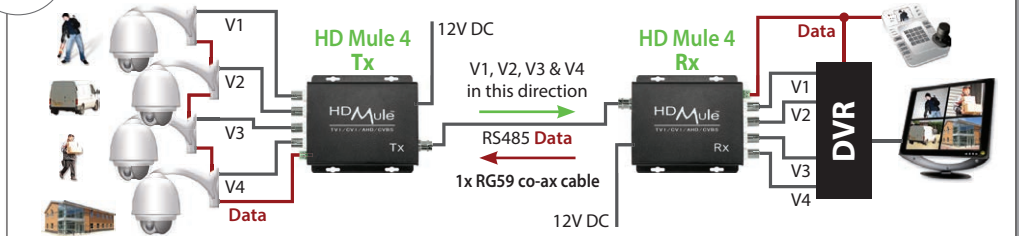
4 Video signals in one direction, 1 RS485 signal in the opposite direction



The HD Mule 4 allows any combination of standard CCTV cameras and PTZ cameras.

Mode 3

4 PTZ Video signals in one direction, 4 RS485 signals in the opposite direction



The HD Mule 4 acts as a data combiner so you can control 4 PTZs over 1 co-ax cable.

HD Mule Instructions

Installation

1. Ensure that the HD or analogue camera is connected to the Mule Transmitter (**marked Tx**). The Mule units are not waterproof and must be installed in water proof boxes if installed outdoors.
2. Connect the camera video feeds to the BNC connections marked V1 ~ V4 on the Mule Tx.
3. Take a coax cable from the single video out BNC connection on the back of the transmitter to the single BNC in connection on the Mule Receiver. Connect BNCs from the respective video outputs on the Mule Receiver to a compatible DVR or suitable equipment.
4. If using the RS485 connection, all four video streams can be used as well. The RS485 works in the alternate direction i.e. from receiver to transmitter.



Powering The Units

The MULE104 units are powered with a 12V DC input connected to the 2.1mm DC socket. The **Transmitter** requires a minimum of 300mA and the **Receiver** requires a minimum of 275mA. To power the units we recommend that you use the two 12V DC plug-in PSUs supplied.



Technical Specification

	Transmitter (Tx)	Receiver (Rx)
Compatibility	TVI (3MP) / CVI / AHD / Analogue	
Video Connection	4x BNC Inputs / 1x BNC Output	1x BNC Input / 4x BNC Outputs
Data Connection	Screw Terminals	
Power	12V DC (PSUs Supplied)	
Consumption	300mA	275mA
Transmission	125m Max / 5m Min (Standard RG59)	
Operating Temperature	-30°C ~ +50°C	
Case Material	Aluminium Alloy	
Weight	227g	
Dimensions	154 x 105 x 29mm	

All specifications are approximate. We reserve the right to change any product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, CCTV Mule cannot be held responsible in any way for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment that these instructions refer to.



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This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated collection point as defined by your local council.



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For more information email: support@cctvmule.com or visit: www.cctvmule.com