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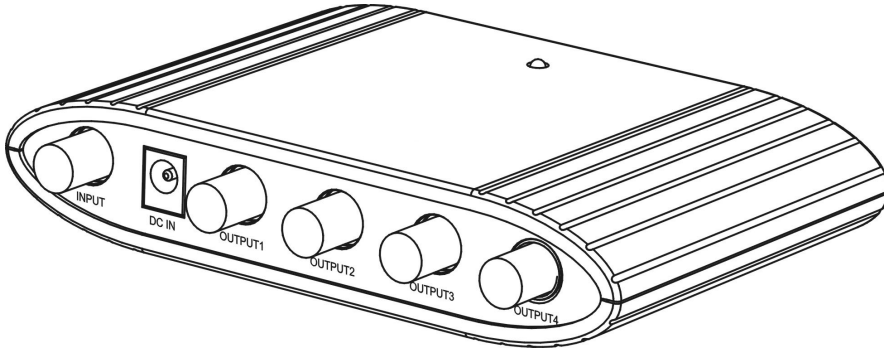
Amplifier for Terrestrial Digital Broadcasting

CHO5004



Digital Terrestrial Broadcasting is new reception experience for most of the TV owner. It can provide more clear picture and more stable sound. And the most advantage of Digital terrestrial broadcasting is easy to receive. But in some case, user need to install the outdoor antenna and wiring long cable to the receiver, or in some case, user will split the signal to many receivers. In this scenario, an amplifier is need to compensate the loss of the cable or loss the signal splitting. DB-140 is designed for this kind of application.

With the newer RF technology, DB-140 deployed with low noise gain block module, it is suitable for Digital Signal reception. And with convenient powering method, it is easy to installed inside your home for splitting of signal or on the window shelter for the antenna pre-amplifier. With 4 output connection ports, it can split the signal to 4 receivers.

DB-140 will be the best companion for your digital terrestrial reception.

Feature

- Low noise Amplifier technology
- 1 input and 4 outputs
- 12 dB Gain
- DC power through DC jacket
- Powering from all the RF output ports via Power inserter (option)
- LED indication of the power
- FM Trap

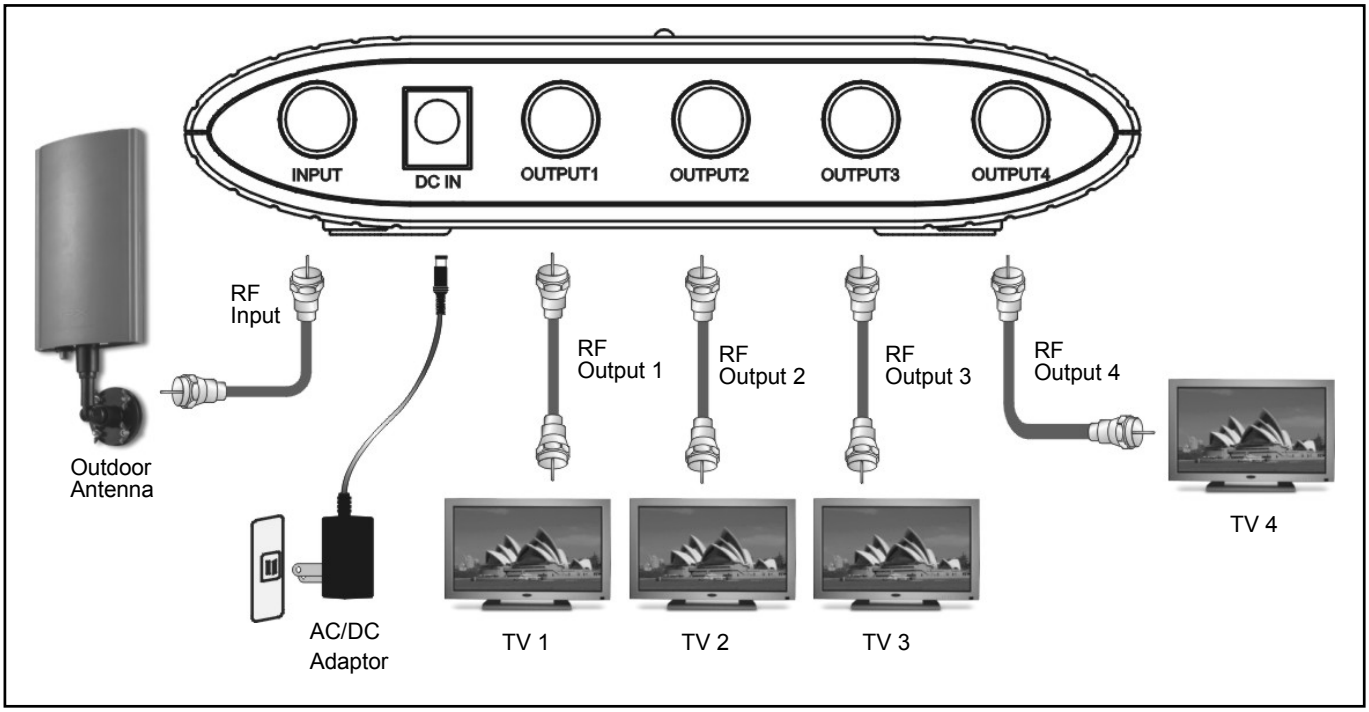
Application

- Compensation for lost of long cable (50M@RG-6 cable)
- Signal splitting for 4 receivers

How to Use

Indoor application (powering via AC/DC Adaptor)

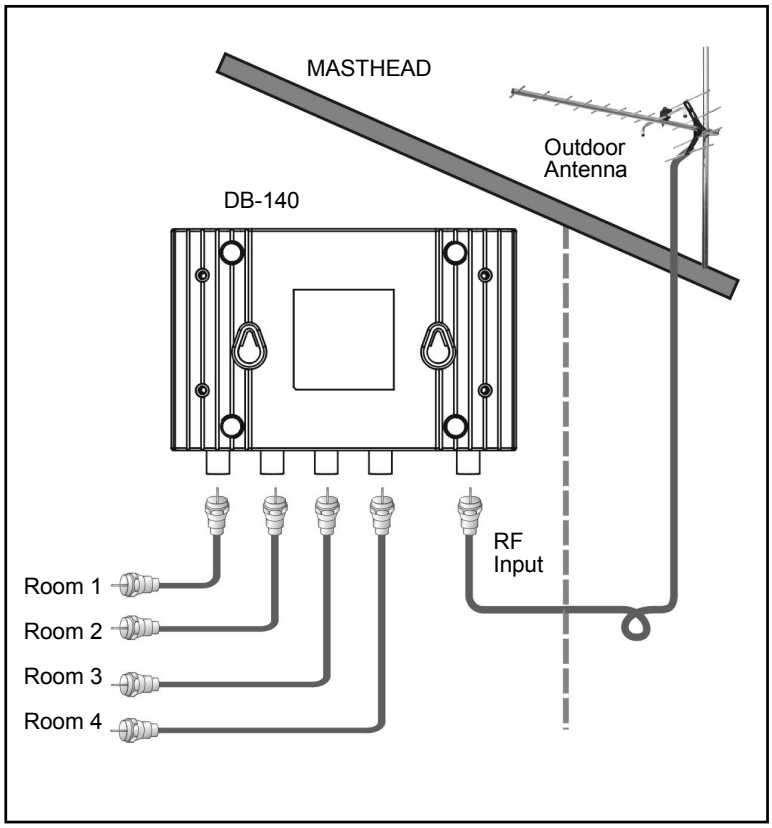
1. Take out the DB-140 main unit
2. Make all the RF cable connections
3. Take out the AC/DC Adaptor
4. Hook the AC end to the AC outlet
5. Connect the DC barrel end to the “DC IN” on the DB-140



MASTHEAD application (powering via power inserter)

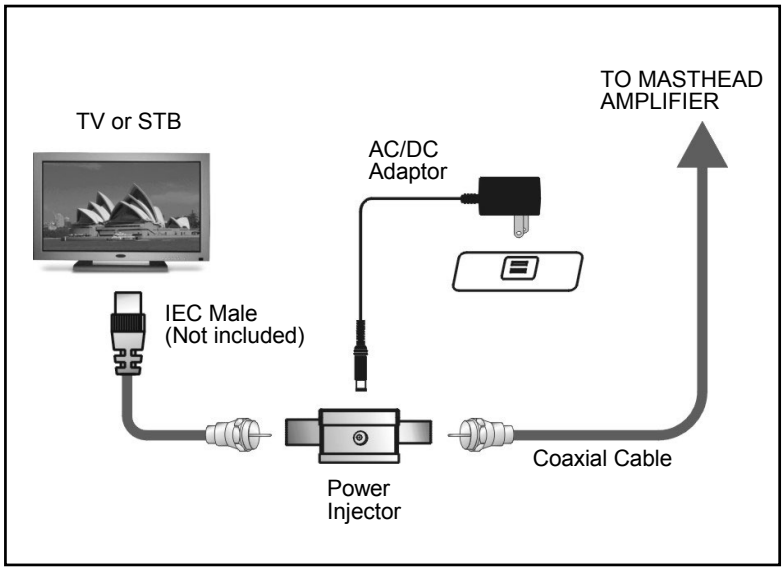
MAST Head installation

1. Take out the DB-140
2. Hook the unit to proper position (please be noticed , DB-140 is not water-proofed, you need to hook the unit to the dry place)
3. Connect the antenna first
4. Connect the cable from antenna to the “input” of DB-140, please be noticed, you need to make a 10 cm diameter water-drop loop of your cable before entering the “input” of DB-140
5. Connect the other RF cable to the output of DB-140



Powering Installation

1. Connect the short cable to your Receiver.
2. The other to the “receiver” end of the power inserter.
3. Connect the cable from MAST HEAD to the “Antenna” of power inserter
4. Make sure all the connection is firmly fixed
5. Take the AC/DC adaptor, connect the AC end to you AC outlet.
6. Connect the DC barrel end to the “DC9-12V” on the power inserter.
7. Finishing all the connection, you can check the reception via your receiver now.



Specification

VHFL Frequency	45~75	MHz
VHFH Frequency	125~230	MHz
UHF Frequency	470~870	MHz
Gain	12 ± 2	dB
Return Loss	6	dB
Noise Figure	4	dB
RF Output Impedance	75	Ω
Power Requirement	DC +5V/40mA	
Input/Output Connector	F Female	
Power Supply	Output1~4 Anyone use Power Injector or DC IN Jack use Power Adapter (9~12VDC / 100mA)	
Accessories:		
Power Injector	Frequency : 45～870 MHz Insertion Loss: < 2 dB Input ：9~12Vdc Output ：5VDC / 100mA (to Masthead Amplifier)	
To Television Connector	F Female	
To Masthead Amplifier Connector	F Female	

Specification subject to change without further notice