



Patent Pending

**AngelTrax**  
w i r e l e s s

**CATV2400 and CATV2400PLUS**  
patent pending

**Easy Set-up  
and  
User Manual**

	<b>CAUTION</b> Risk of Electrical Shock DO NOT OPEN	
<p>To reduce the possibility of Electrical Shock, do not remove the cover to any component in this package. There are no user-serviceable parts inside the components. Please refer all service to qualified personnel only.</p>		

## WARNING

To prevent fire or electrical shock hazard, do not expose the units to rain or moisture.

## *Safety Terms and Symbols:*



**WARNING:** Warning statements identify conditions or practices that could result in injury or loss of life.



**CAUTION:** Caution statements identify conditions or practices that could result in damage to this product or other property.



**DANGER:** To reduce the possibility of electrical shock, do not remove the cover to this product.

## ***Important Safety Instructions:***

1. All of the safety, set-up and operating instructions should be read before the product is operated.
2. The safety and operating instructions should be retained for future reference.
3. All warnings on the product and in the operating instructions should be adhered to.
4. All operating and use instructions should be followed.
5. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Do not use attachments not recommended by the products manufacturer if they may cause hazards.
7. Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub. Never spill liquid of any kind on this product.

8. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
9. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type or power supply to your home, consult your product dealer or local Power Company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
10. Power supply cord should be routed so that they are not likely to be walked on or pinched by items placed upon or against them.
11. For added protection for this product during a lightning storm, or if it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.
12. Never push objects of any kind into this product through the openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

13. Do not overload wall outlets with extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.

14. Unplug this product from the wall outlet and refer servicing to qualified services personnel under the following conditions:

- a. When the power supply cord or plug is damaged.
- b. If liquid has been spilled, or objects have fallen into the products.
- c. If the product does not operate normally by following the operation instructions, adjust only those controls that are covered by the operating manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore this product to its normal operation.
- d. If the products have been dropped or damaged in any way.
- e. When the product exhibits a distinct change in performance -- this indicates a need for service.

15. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

16. Upon completion of any service or repair to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

17. The product should be situated from heat sources such as radiators, heat registers, stoves, or other products including amplifiers that produce heat.

#### **FCC**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

## ***Specifications:***

### Transmitter

Frequency:	2400MHz~2483MHz
Sender Power:	10dBm
Channels:	4 - 2414,2432,2450,2468MHz
Frequency Stability:	$\pm 100$ KHz
Video Input Level:	1 Vp-p
Audio Input Level:	1 Vp-p
Supply Voltage:	12V
Power Consumption:	150mA
Antenna:	Dipole Internal
Dimension:	5"Dx2"Wx7"5H
Operating Temperature:	-10C~+60C

### Receiver

Frequency:	2400MHz~2483MHz
Sensitivity:	-90dBm
Channels:	4 - 2414,2432,2450,2468MHz
L.O. Stability:	$\pm 100$ KHz
Video Input Level:	1 Vp-p
Audio Input Level:	1 Vp-p
Supply Voltage:	12V
Power Consumption:	200mA
Antenna:	Dipole Internal
Dimension:	5"Dx2"Wx7"5H
Operating Temperature:	-10C~+60C

**C**ongratulations on your purchase of the AngelTrax CATV2400/CATV2400PLUS Wireless Cable TV System. This product combines easy set-up, ease of use and convenience for your wireless cable TV viewing experience. Whether you need a TV in your kitchen, garage, back porch or a room without a cable connection, the AngelTrax wireless cable TV systems will provide you with years of wireless cable TV enjoyment.

For assistance using or connecting your AngelTrax Wireless TV System, visit <http://www.angeltrax.com/troubleshooting>. If you have an immediate need for assistance, please call and ask for technical support at 800-673-1788.

Our technical support hours are Monday through Friday from 9am to 6pm Central Standard Time. If you need to call for assistance other than Live Tech Support hours, leave a message on extension 131. We will return your call.

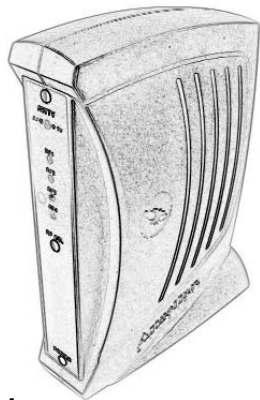
For an easy and quick set-up of your new AngelTrax product, follow the instructions on the following pages.

We sincerely hope you enjoy your new AngelTrax Wireless Cable TV System.  
**Register your product today at: [www.angeltrax.com/register](http://www.angeltrax.com/register)**

**To purchase accessories, go to <http://www.ivsshop.com>**

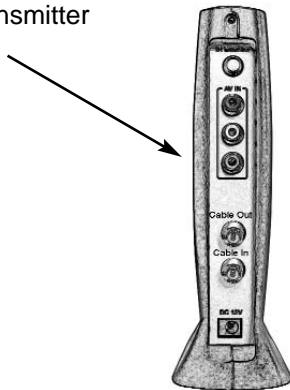
# 1 Start Here *Setting up the Transmitter*

Unpack your equipment and locate your Power Adapters, the Transmitter and your RF cables.



Front view of transmitter

Rear view of transmitter



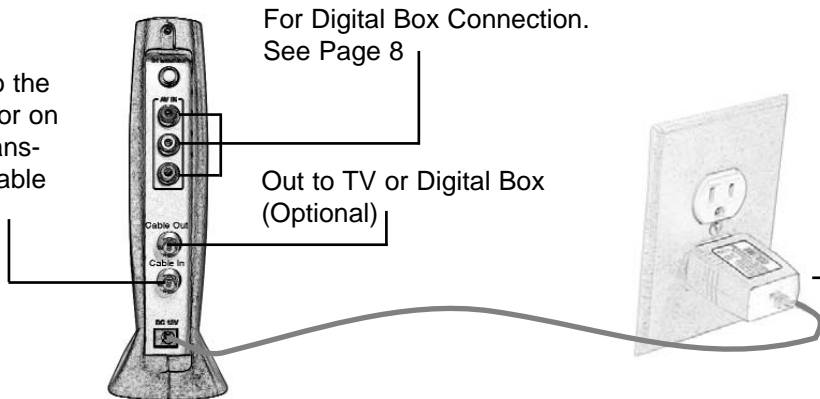
Power Adapter



2

Place your transmitter to the closest cable drop to the remote TV. (NOTE: If you plan to also connect your Digital Cable Box, you must locate the transmitter close to your Digital Box.) See Page 8 for advanced set-up.

1. Connect your incoming cable to the "F" Type connector on the rear of the transmitter marked "Cable In."



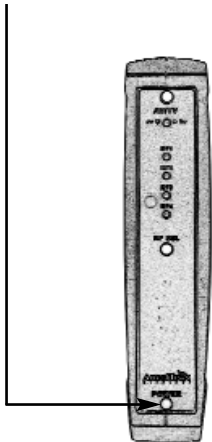
For Digital Box Connection. See Page 8

Out to TV or Digital Box (Optional)

2. Connect the 12V power adapter to your transmitter and to your 110V wall outlet.

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3. Turn on the Transmitter by pressing the power button at the bottom of the transmitter.



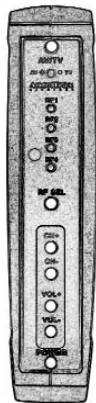
**Your  
Transmitter  
is  
Now  
Ready**

3

4

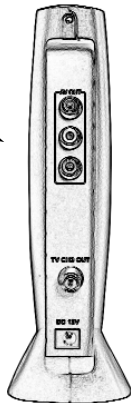
### ***Setting up the Receiver***

Unpack your equipment and locate your Receiver, Power Adapter and Cables.



Front  
view of  
Receiver

Rear  
view of  
Receiver

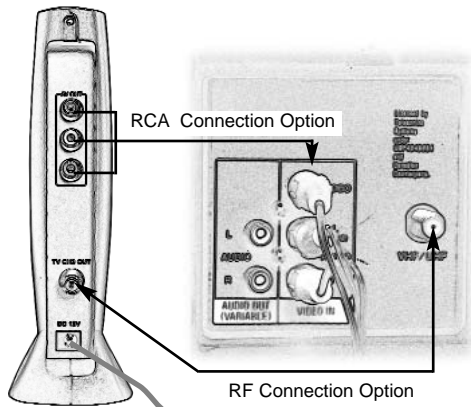


**QUICK SET-UP**

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Place your receiver close to the remote TV. We have supplied 2 options for connections to your remote TV; Through the Antenna Connection or through the Composite video Input. Choose one: **DO NOT USE BOTH!**

1. Connect one of the RF cables (Supplied) to the "TV CH3 OUT" on the back of the receiver. Connect the other end to the RF (Antenna) input on the back of the TV. Or, connect the RCA cables to the back of the Receiver and the TV.

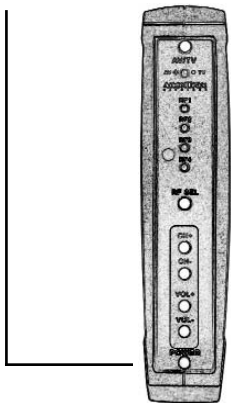


2. Connect the 12V power adapter to your transmitter and to your 110v wall outlet.



6

3. Turn on the Receiver by pressing the power button at bottom of the receiver.



**Your  
Receiver  
is  
Now  
Ready**

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## Operation

1. If you connected the TV using the RF cable, then set your TV on CH3. If you used the RCA cables to connect the Receiver to the TV, then you must set the correct INPUT using the remote control that came with your TV.

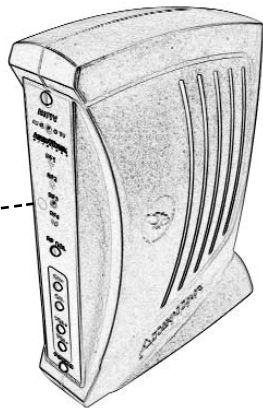
2. Install the batteries into the AngelTrax remote control.

3. Point the remote at the Receiver and push the RF button on the remote to allow the Transmitter and Receiver to synchronize. (The TX and RX should now be on the same RF channel)

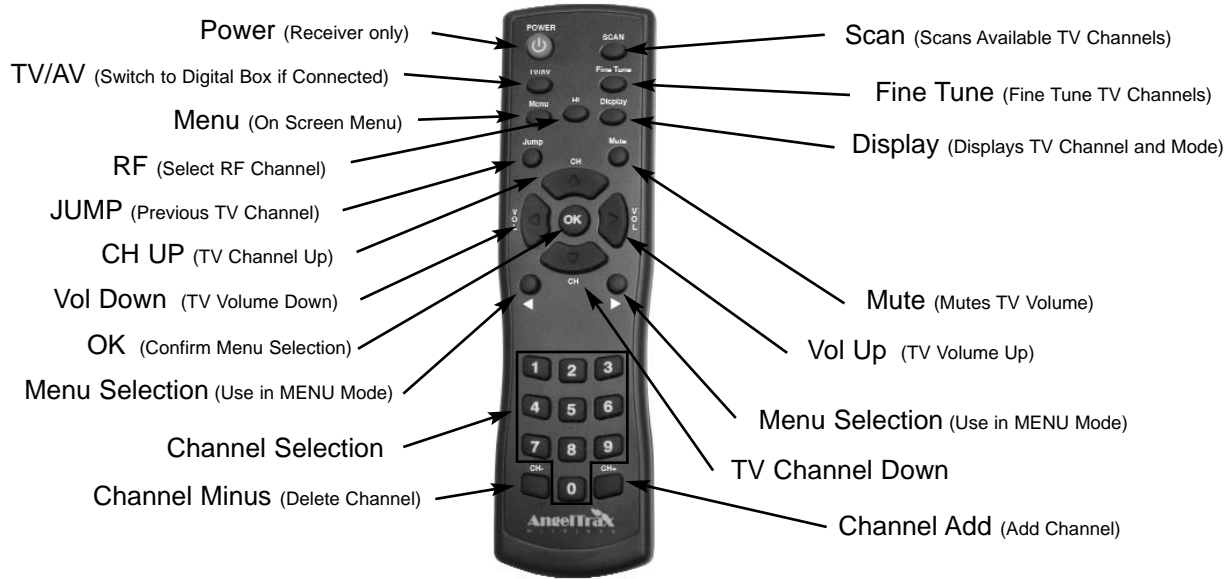


8

4. After pressing the RF button on the remote to select the cleanest channel, press SCAN on the AngelTrax remote. The system will now scan all of the available channels. After scanning is complete, you are ready to watch TV using your AngelTrax wireless cable TV system.




CATV2400 Receiver

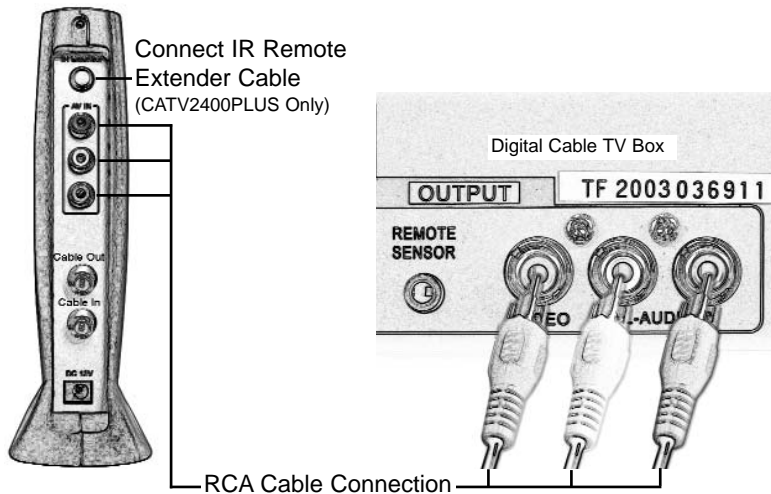


1

Follow the instructions from page 2 to page 7. After completing the set-up on page 2 through 7, you are ready for advanced set-up. Advanced set-up is for those customers that want the added value of being able to watch their digital channels and controlling the digital box from the remote location. **Note: When watching the digital channels, they will not be independent.**

1. Connect a set of RCA cables from the output of the digital box (from your cable provider) to the RCA input on the back of the transmitter.
2. Connect the IR extender cable (supplied in the CATV2400PLUS Only) to the rear of the transmitter. Locate the opposite end of the cable in front of the IR receptor of your digital box.
3. Select the TV/AV button on your AngelTrax remote control. This will switch the coaxial input to the RCA input. You are now seeing the digital channel.
4. To change the digital channels (all functions of your digital box) use the remote that came with your digital box. Simply point your digital box remote at the AngelTrax receiver. **SET-UP Page 9** 


## Advanced Set-Up Illustration



## ***Multiple System Set-Up (Advanced Set-Up)***

The CATV2400 and CATV2400PLUS Wireless Cable TV Systems are designed to be used in applications where more than one system is needed. There are two different applications and a solution for each.

1. If you have two or more locations where a wireless TV solution is needed and those locations are not used simultaneously, then all you need is one complete system and multiple receivers. All receivers will display the same channel.
2. If you have two or more locations where a wireless TV solution is needed and those locations are used simultaneously, then you will need complete systems to keep all wireless systems completely independent.

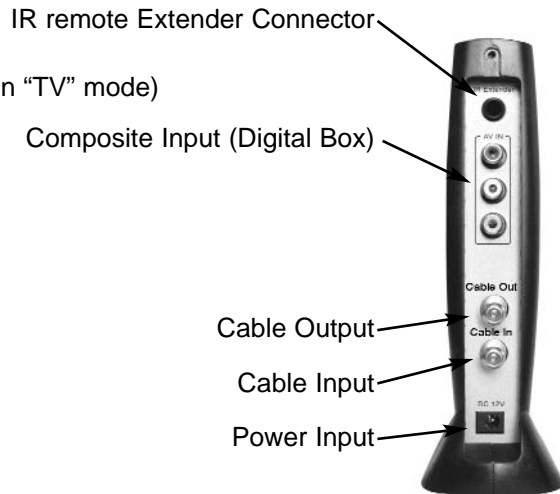
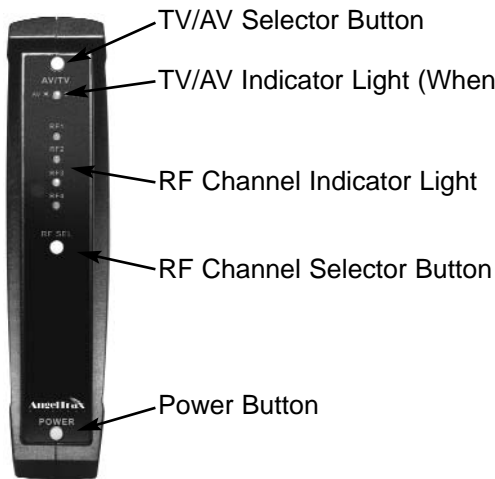
Note: Each system comes with 4 RF channels. When using multiple systems for independent applications, the systems must be on different RF channels and **you must turn “Synchronization” OFF** in the on screen menu. **See page 11** 



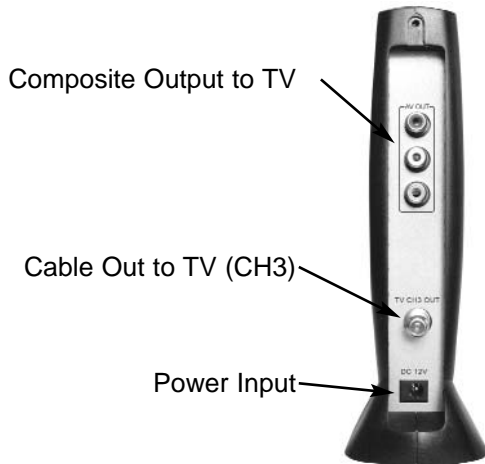
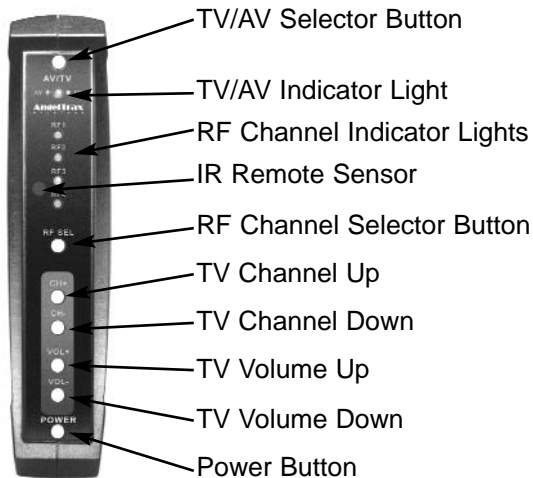
## ***Turning Synchronization OFF***

1. Select MENU on the remote
2. Use the CH Down button to move down to the Synchronization area.
3. Use the small arrow buttons under the Ch Down button to move the selection.
4. When finished, select OK on the remote.

## Transmitter



## Receiver



### **One Year Limited Warranty**

This warranty gives you specific rights and you may have other rights that vary from state to state. IVS, Inc. warrants this product to be free from manufacturers in material and workmanship under normal use and service for a period of one (1) year from the date of purchase. The terms and conditions of said warranty are as follows:

1. When the product purchased from an authorized AngelTrax dealer, IVS, Inc. will either repair or replace at no charge to the original purchaser any unit which IVS, Inc. determines to be defective and under the warranty provided the defects occurs within one (1) year from the date of purchase. This warranty is valid only with the original purchaser and non-transferable. Warranty does not cover the removal or reinstallation of the item.
2. When the product is installed by or purchased from an unauthorized AngelTrax dealer, IVS, Inc. will either repair or replace at no charge to the original purchaser any unit which IVS, Inc. determines to be defective and under the warranty provided the defects occurs within one (1) year from the date of purchase. This warranty is valid only with the original purchaser and non-transferable. Warranty does not cover the removal or reinstallation of the item.
3. The date of purchase and proof of an authorized AngelTrax dealer installation must be established by original sales receipt which must accompany the unit being returned for warranty service.
4. Item must be returned to the factory in original carton or equivalent. If unit is received with serial number removed or defaced, the warranty is void. The unit will not be repaired under warranty and returned to owner freight collect.
5. This warranty shall not apply to any unit that has been used for a purpose for which it is not designed or any unit that has been altered in any way. Evidence indicating that the unit was improperly installed or misused outside the instructions provided with unit will void warranty.
6. IVS, Inc. does not authorize any other persons to assume liability in connections with its products. This warranty is the only expressed warranty made by IVS, Inc. to their product. Any implied warranty or merchantability or fitness for a particular purpose applicable to IVS, Inc. products is limited in duration to the duration of this limited warranty. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages or limitation on how long an implied warranty lasts. Therefore, the above limitations may not apply.
6. If in the unlikely event that warranty service becomes necessary, contact us directly for assistance at 1-800-673-1788 to obtain an RMA number or technical assistance.



Interactive Video Solutions, Inc. - AngelTrax Wireless - 9540 US Hwy 84 West - Suite 2 - Newton, AL 36352

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