CLAIMS:

1. An apparatus for receiving and outputting multiple types of signals, comprising:

a first input receiving a first signal;

a second input receiving a second signal;

processing circuitry operatively connected to the first input and operative to process the first signal, thereby creating a processed signal;

a modulator operatively connected to the second input and to the processing circuitry; wherein

the modulator is operative to output at least one of the second signal and processed signal.

2. The apparatus of claim 1, further comprising:

an infrared transmitter connected to the processing circuitry, the infrared transmitter configured to send a channel change command when the modulator outputs the second signal.

3. The apparatus of claim 1, wherein the modulator is operative to output both of the second signal and the processed signal.

4. The apparatus of claim 3, wherein the modulator outputs both of the second signal and the processed signal in response to a signal requesting a picture-in-picture display.

5. The apparatus of claim 1, wherein the first signal is a satellite television transmission.

6. The apparatus of claim 1, wherein the first signal is a cable television transmission.

7. The apparatus of claim 1, wherein the second signal is a local television transmission.

8. A method of providing output from a multiple input television receiver, comprising:

receiving a command to change from a first state to a second state;

determining to which of a first and second input signal the second state corresponds;

in the event the second state corresponds to the first input signal, processing the first input signal to create a processed signal;

in the event the second state corresponds to the first input signal, outputting the processed signal; and

in the event the second state corresponds to the second input signal, outputting the second input signal.

9. The method of claim 8, further comprising:

in the event the second state corresponds to the second input signal, issuing a channel change command to an output device, the channel change command instructing the output device to tune to a frequency corresponding to the second state.

10. The method of claim 8, further comprising:

in the event the second state corresponds to the second input signal, issuing a channel change command to an output device, the channel change command instructing the output device to tune to a frequency dedicated to receiving the first input signal.

11. The method of claim 10, wherein the frequency dedicated to receiving the first input signal corresponds to a channel 3 or 4 at the output device.

12. The method of claim 8, further comprising:

receiving electronic programming guide data for a plurality of channels;

determining a channel segregation that indicates which of the plurality of channels in the electronic programming guide data correspond to the first input signal and which correspond to the second input signal; and

wherein the operation of determining to which of a first and second input signal the second state corresponds includes referencing the channel segregation.

13. The method of claim 12, wherein the operation of determining a channel segregation comprises:

scanning for local broadcast channels on an antenna associated with the second input signal;

assigning any local broadcast channel to the second input signal; and

assigning any channels in the electronic programming guide data not found in the scanning operation to the first input signal.

14. The method of claim 8, further comprising:

compiling a first channel list, the first channel list including all channels available through an antenna associated with the first input signal;

compiling a second channel list, the second channel list including all channels available through an antenna associated with the second input signal; and

merging the first and second channel lists into a virtual electronic programming guide.

15. The method of claim 14, further comprising:

determining that a channel in the first channel list and a channel in the second channel list overlap; and

reassigning one of the channel in the first channel list and the channel in the second channel list to a non-overlapping channel.

16. The method of claim 8, wherein the first input signal is a satellite television transmission.

17. The method of claim 8, wherein the first input signal is a cable television transmission.

18. The method of claim 8, wherein the second input signal is a local television transmission.

19. A method of providing electronic programming data to a television receiver, comprising:

compiling a first channel list, the first channel list including all channels available through an antenna associated with a first input signal at a television receiver;

compiling a second channel list, the second channel list including all channels available through an antenna associated with a second input signal at a television receiver; and

merging the first and second channel lists into a electronic programming guide data; and

transmitting the electronic programming guide data from a service provider to the television receiver.

20. The method of claim 19, further comprising:

determining that a channel in the first channel list and a channel in the second channel list overlap; and

reassigning one of the channel in the first channel list and the channel in the second channel list to a non-overlapping channel.

CLAIMS

1. An apparatus for receiving and outputting multiple types of signals, comprising:

a first input receiving a first signal ;

a second input receiving a second signal comprising an over-the-air transmission;

processing circuitry operatively connected to the first input and operative to process the first signal, thereby creating a processed signal;

a modulator operatively connected to the second input and to the processing circuitry; wherein the modulator is operative to output at least one of the second signal and processed signal; and

an infrared transmitter connected to the processing circuitry, the infrared transmitter configured to automatically send a channel change command to a display device when the modulator outputs the second signal.

2. The apparatus of claim 1, wherein the modulator is operative to output both of the second signal and the processed signal.

3. The apparatus of claim 2, wherein the modulator outputs both of the second signal and the processed signal in response to a signal requesting a picture-in-picture display.

4. The apparatus of claim 1, wherein the first signal is a satellite television transmission.

5. The apparatus of claim 1, wherein the first signal is a cable television transmission.

6. A method of providing output from a multiple input television receiver, comprising:

receiving a command to change from a first state to a second state at a first device;

receiving electronic programming guide data for a plurality of channels;

determining a channel segregation that indicates which of the plurality of channels in the electronic programming guide data correspond to a first input signal and which correspond to a second input signal, wherein the determination comprises:

scanning for local broadcast channels on an antenna associated with the second input signal,

assigning any local broadcast channel to the second input signal, and

assigning any channels in the electronic programming guide data not found in the scanning operation to the first input signal;

determining to which of the first and second input signal the second state corresponds by referencing the channel segregation;

in the event the second state corresponds to the first input signal, processing the first input signal to create a processed signal;

in the event the second state corresponds to the first input signal, outputting the processed signal;

in the event the second state corresponds to the second input signal, issuing a channel change command from the first device to an output device, the channel change command instructing the output device to tune to a frequency corresponding to the second state; and

outputting the second input signal.

7. The method of claim 6, further comprising:

in the event the second state corresponds to the second input signal, issuing a channel change command to an output device, the channel change command instructing the output device to tune to a frequency dedicated to receiving the first input signal.

8. The method of claim 7, wherein the frequency dedicated to receiving the first input signal corresponds to a channel 3 or 4 at the output device.

9. The method of claim 6, further comprising:

compiling a first channel list, the first channel list including all channels available through an antenna associated with the first input signal;

compiling a second channel list, the second channel list including all channels available through an antenna associated with the second input signal; and

merging the first and second channel lists into a virtual electronic programming guide.

10. The method of claim 9, further comprising:

determining that a channel in the first channel list and a channel in the second channel list overlap; and

reassigning one of the channel in the first channel list and the channel in the second channel list to a non-overlapping channel.

11. The method of claim 6, wherein the first input signal is a satellite television transmission.

12. The method of claim 6, wherein the first input signal is a cable television transmission.

13. The method of claim 6, wherein the second input signal is a local television transmission.