

# OREGON AMATEUR TELEVISION

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## *Amateur Radio with VISION*

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What you need to receive ATV in your area?

In Portland- note that the system can not be recieved by many right now since it is not high enough to create a good line of sight path to most of us.... however below is the set up we use.

Since the the output of the repeater is at 1257MHZ FM, you will need some kind of a directional antenna for that band. Many of us are using a 26 element loop yagi from Directive systems. Others are using coffee can homebrew dishes . This must be mounted for vertical polarization and pointed at the Ackerly (KGON) Tower just above Downtown Portland. The repeater is sending out a FM TV signal so we are all using old satellete receivers that cover 950 to 1450. On Sat receivers it is near Channel 10 KU BAnd. Audio carrier is at 6.0mhz and the receiver is set for inverted video.

We have been finding them for \$25 to \$65.

146.42 Simplex is used for coordination and talkback.

Portland Net times are:

Monday 7PM Pacific Time

Till our repeater is in a better location we use the BATC.Tv service. We use the W7AMQ channel there. At this time we use the 440.450 repeater for talk back.

**Oregon Amateur Television Association (OATVA)**

3210 SW Dosch Road

Portland Oregon 97239

Ed Mellnik - President, (503) 241-8663 days

Dues \$100

ATV repeater 426.25 AM input - 1257 FM output

440.450 FM repeater is used for coordination.

Our Home page has a BATC player to view our nets.

<http://www.oregonatv.org>

Since our repeater is not presently in a place that is above the tree line on Healy Hieghts few folks can see the signal. However while we look for a better location for the machine, we are meeting on line at the [www.BATC.TV](http://www.BATC.TV) on line site using the W7AMQ repeater channel. We meet at 7pm Pacific time Monday evenings. You can check in to the chat as a guest and find out how you can send video into the channel.

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The Portland <> Salem ATV Network

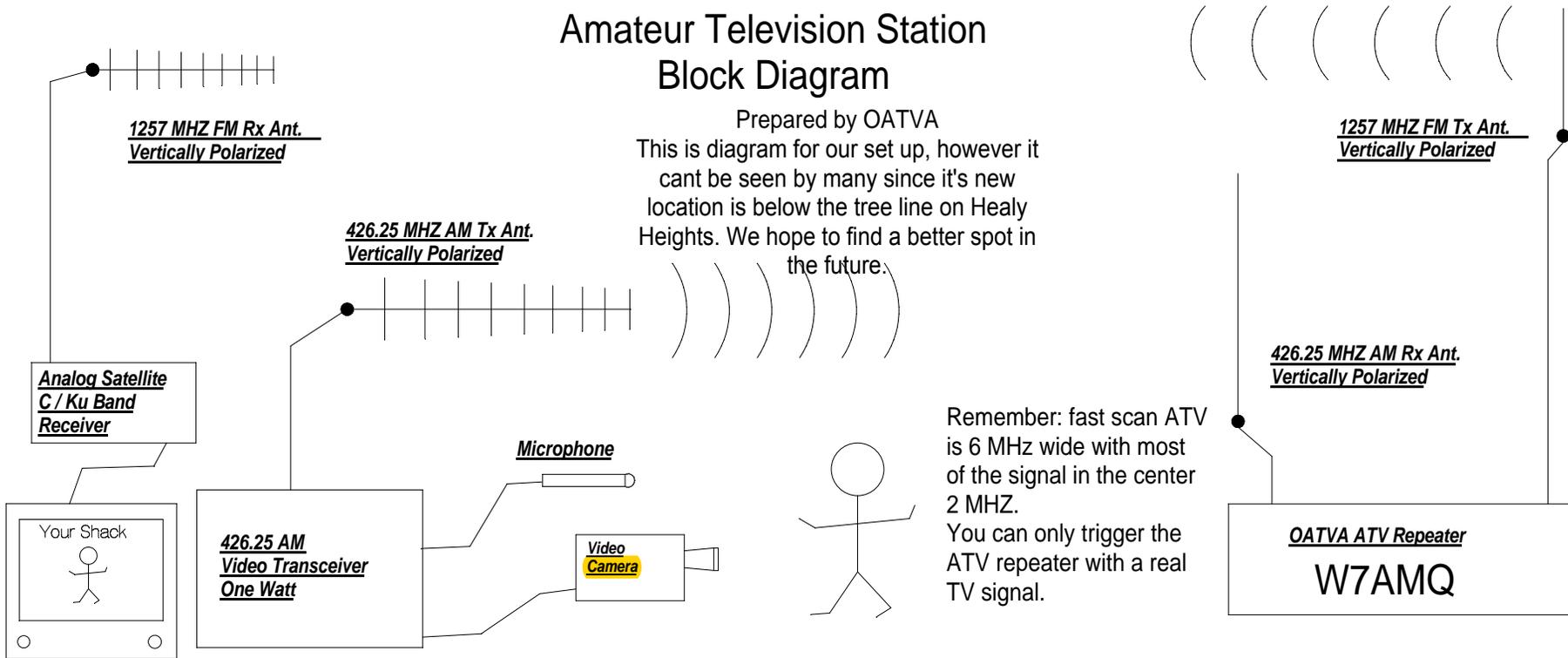
At this time we know of no ATV activity from the Salem community

Dennis Belles, WA7DRO, is now experimenting with some of the new atv digital modes.

# Amateur Television Station Block Diagram

Prepared by OATVA

This is diagram for our set up, however it cant be seen by many since it's new location is below the tree line on Healy Heights. We hope to find a better spot in the future.



Remember: fast scan ATV is 6 MHz wide with most of the signal in the center 2 MHz. You can only trigger the ATV repeater with a real TV signal.

The above diagram is a standard ATV equipment set up for Portland Oregon using 426.25 AM as the input frequency and 1257 FM as the output of the repeater. The 2m frequency of 146.42 (S) is also used for audio when conditions are less than optimal. Any TV set may be used. Yagi antennas with a fair amount of gain are desirable for both 426 MHz and 1257 MHz. Antennas should be as high as possible and all feed lines should be low loss coax (Belden 9913 or better). In Portland we are vertically polarized. This means some special considerations when mounting the antennas. Unless the yagi is end fed or mounted on a cross beam a non conductive mast is needed.

Almost any camera will work. Anything from a modern camcorder to an old black and white surveillance camera. A poorly lit scene can look as bad as a poor RF signal. In RF line of sight is everything..... in the ATV studio proper lighting is just as important.

PC Electronics sells several choices in 426 MHz ATV transmitters. Satellite receivers that work in the 950 MHz to 1450 MHz range can usually be found for \$40 or less. Make sure not to get a digital Satellite receiver. That will not work for Portland ATV.

For more info on how to get on ATV in Portland, contact Ed Mellnik, WB2QHS or Dennis Belles, WA7DRO Visit our web site at [www.oregonatv.org](http://www.oregonatv.org)