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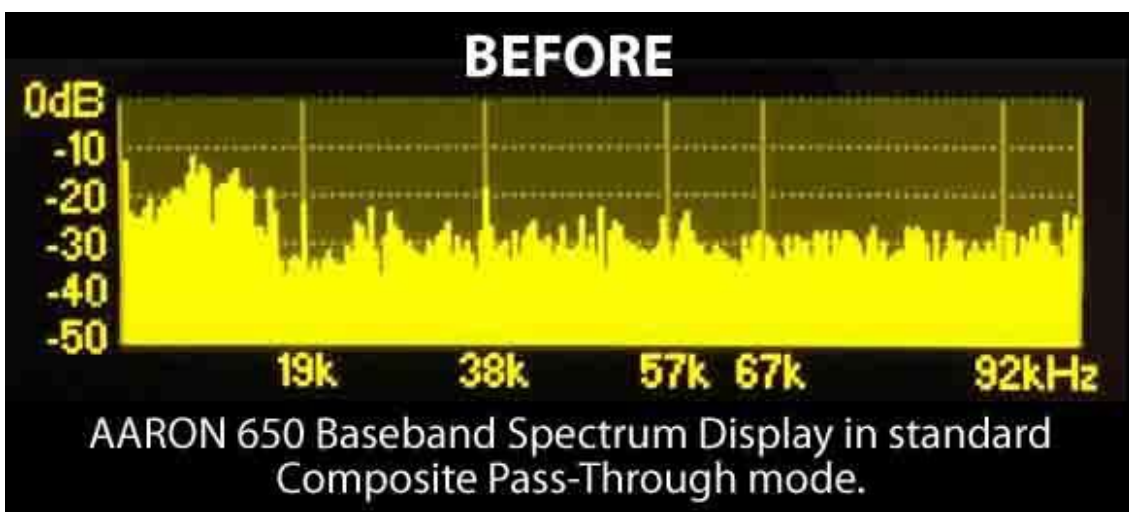
How does AARON 650 clean up rebroadcast signal and let me be louder?



The all-new [AARON 650](#) FM rebroadcast/translator receiver was specifically built to handle the most challenging reception scenarios, so you can rebroadcast and extend your coverage. But how do we do it?

One way is by eliminating extraneous noise in the FM baseband signal. This not only provides much cleaner audio but allows you to drive your rebroadcast transmitter harder due to tighter peak control and fewer overshoots. That means a louder and cleaner rebroadcast signal over greater geographical area.

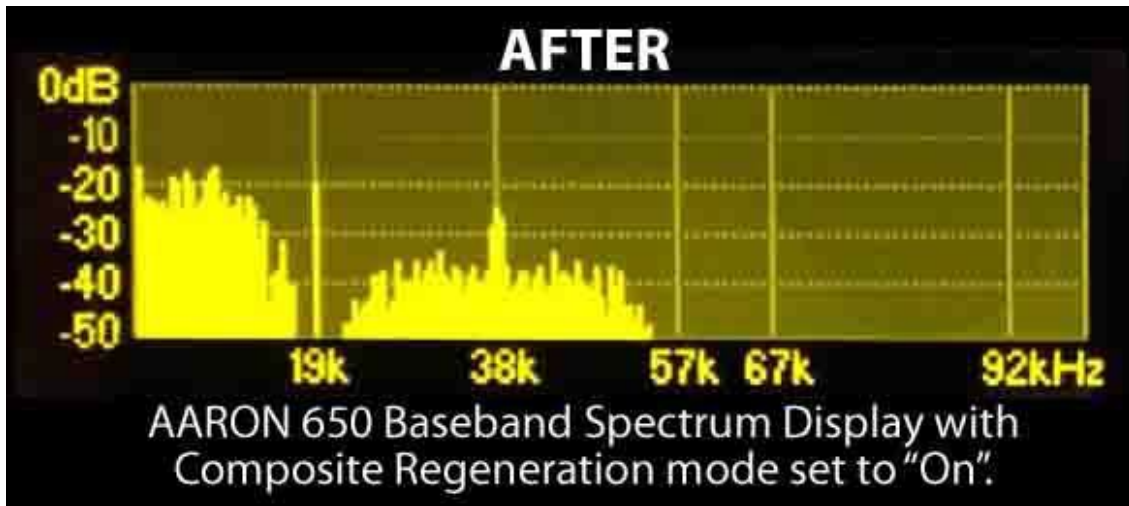
Take a look at AARON's Baseband Spectrum FFT menu in the image below. This is a snapshot taken off-air from a local station here in Santa Cruz, CA. The signal is decent but not perfect (our offices are in the shadow of mountains).



Notice the pilot at 19k and the peak of the stereo information at 38k. Now look at all that activity from 57k out past 92kHz. See all that noise?

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Now take a look at the Baseband Spectrum menu display with Composite Regeneration mode turned on.



Not only is there no more noise out past 57k, but the pilot at 19k is completely isolated and definition in the L-R stereo information is much clearer. That's because in Composite Regeneration mode, AARON 650 demodulates the Left and Right audio off air and re-stereo encodes it: re-introducing a new pilot, stereo info and either passing through all your RDS data or allowing you to modify it prior to retransmission.

Learn more and find out if AARON 650 is right for your translator or rebroadcast site [here](#).

AARON 650 Key Features

- Unparalleled DSP-based receiver performance.
- Composite Pass-Through and Baseband Regeneration modes.
- Dual Antenna and Composite Outs, Balanced Analog and AES-Digital Program Line outputs.
- Automatic reception processing for Bandwidth, Stereo Blend, HF Blending and more.
- Advanced metering including an FFT Spectrum Analyzer for the MPX, Left/Right XY plots and audio levels over time.
- BandScanner for onsite RF Spectrum Analysis and antenna calibration.
- Failover audio and Web-stream backup.
- Remote control web interface with streaming audio back to your browser
- SNMP, plus E-mail and text notifications.

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