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Feedback Device Outline Rate Topic

Author	Post
<p>Posted: Dec 16th, 2010 02:05 AM</p> <p>PM Quote Reply</p>	<p>1st Post</p>

<p>EVPDave Moderator</p> <p>Joined: Mar 7th, 2007 Location: USA Posts: 157 Status: Offline</p>	<p>This design came to me a month ago and I finally put the hardware together to try it. It is a simple feedback loop using both radio (RF) and light. I knew there would be a feedback sound but I was surprised to hear the distinctive RF feedback sound v.s. acoustical feedback. RF feedback has a hollow tone to it.</p> <p>The device is touchy to set up and is operated in a dark room. The photomultiplier tube I used is very sensitive to modulations of light.</p> <p>Out of a minute of distorted voices I could only understand one message and it's not that great. I will post a block diagram of the device after this post.</p> <p>"The Bausch and Lomb inceptor"</p> <p>Attachment: 121510thebauchandlombinceptor.mp3 (Downloaded 1 time)</p> <p style="text-align: center;">Back To Top PM Quote Reply</p>
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<p>Posted: Dec 16th, 2010 02:06 AM</p> <p>PM Quote Reply</p>	<p>2nd Post</p>
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<p>EVPDave Moderator</p> <p>Joined: Mar 7th, 2007 Location: USA Posts: 157 Status: Offline</p>	<p>Diagram of the device.</p> <p>Attached Image (viewed 5 times):</p> <div style="text-align: center;"> <pre> graph TD A[AM Radio Transmitter] --> B[RF generated by transmitter terminates to light (LED or Bulb)] B --> C[Photomultiplier tube or Photodiode converts light to signal. Output signal is then fed back to input of AM transmitter] C --> D[Radio tuned to output frequency of AM transmitter] D --> E[Recorder captures audio from radio receiver. Notch filter to remove RF feedback tone] </pre> </div> <p style="text-align: right; font-size: small;">Adjust light level until a sporadic RF feedback tone is heard in radio receiver tuned to transmitter. Use a notch type filter to reduce RF feedback tone. Weak voice remains.</p> <p style="text-align: center;">Back To Top PM Quote Reply</p>
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