DRM Modification - YAESU FRG 8800

For this Modification you will need a 467kHz mixer unit from SAT-Schneider /Germany [http://www.sat-schneider.de](http://www.sat-schneider.de) (It will cost you about 50 €), and also a 12kHz wide ceramic filter like a Murata CFW 455F. (it’s about 3 €)

In my case, I did not replace any of the existing filters inside my YAESU. So the Receiver works exactly the same way, as it did before my modification. But with an additional function, - DRM.

**And that’s the easy way of modification:**

1.) The 455kHz signal is tapped at D27

2.) Unlike most other modifications, I added the new filter into the input line of the mixer unit.
3.) The Power connection was made between Pin 3 (Jumper J10) and ground, which you can find at Pin 2 (also Jumper J10).

4.) For the 12 kHz DRM output signal, I have mounted a Lemo socket at the rear of my FRG 8800.

SAT-Schneider mixer unit with added Murata Filter CFW 455F
**Note:** If after modification, the spectrum does not look flat, add a resistor (about 50 Ohm) between output and ground of the filter, to match it to the circuit. (depends on the filter)

In case of no audio or no sync try to invers the input signal (in the *Setup Menu* of FhG Software)

**Reception result with the modified FRG 8800 and a long wire antenna**

(Transmission from „*Deutsche Welle*“/Juelich on 6140kHz, 23/04/03)

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**Note from editor:** (James Briggs): Michael, thanks for this excellent modification. I think is worth mentioning that you found this modified receiver had a better performance than the FRG 100 that you also modified before.

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