Undocumented features for AR-DV1!

Our "advanced users" will be interested in the following two features of the AR-DV1 Digital Voice Receiver! NXDN DESCRAMBLE and DISCRIMINATOR DIRECT RECORDING on SD.

NXDN Descramble function

(For 15 bit digital scrambling mode NXDN signals. Does not support encrypted mode NXDN signals)

-Select the NXDN mode (=D-CR) or AUTO mode.

Once the desired signal is received:

-Click once on the main dial

-Long press on MODE button

The blinking question marks means that AR-DV1 is searching for the descrambling code. It just takes 1 or 2 seconds if reception conditions are good. Once found, it will the scramble code such as 000015 for example and you will hear the decoded voice.

Please note that although the display shows "ENC.CODE", it actually means "descramble" code. No relation to encryption.

Disctriminator direct recording on SD

Whereas AR-DV1 features a discriminator output (AUX socket), with a little trick the discriminator signal can also be recorded directly to its SD card! Here is how:

1) On your PC, open a text file and type the word "DISC" (in capitals, just the letters DISC).

2) Save this file as DISC.txt

3) Copy this file to the SD card.

4) Put the SD card into AR-DV1.

Whenever the receivers sees this file, it will record the received audio in "discriminator" format. (In FM mode, only 6kHz, 15kHz and 30kHz bandwidth supported)

In case you don't know, discriminator audio is an unfiltered signal, also called baseband audio. It is required by some PC applications decoding data signals such as CTCSS, SCA, FSK, RTTY, FAX, Pager data, and trunked system control data, etc. For details we invite you to ask Google.