

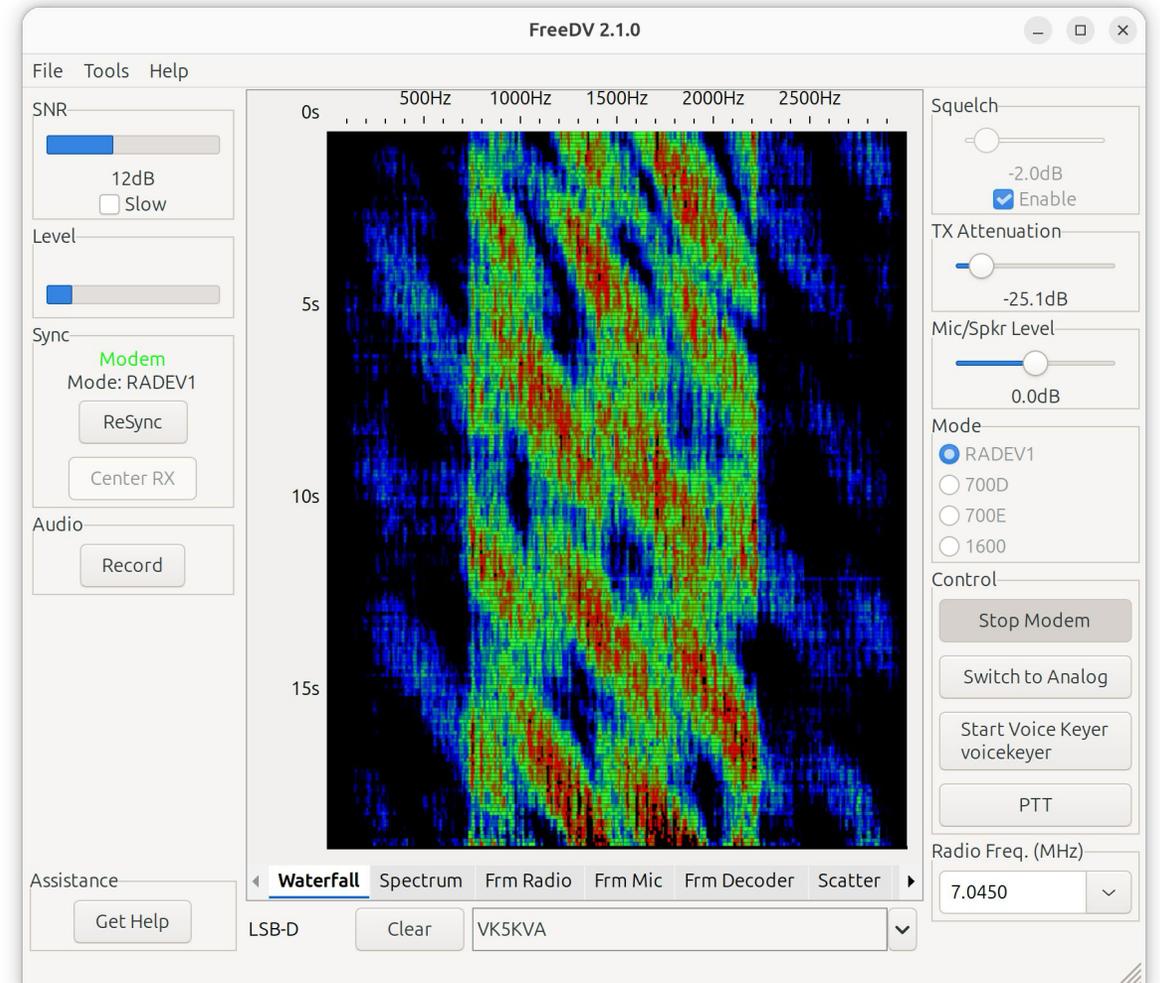
Police Amateur Radio Team

February 17, 2026



FreeDV – Digital Voice

Kevin KC1TJD



Questions

- Who has heard of FreeDV?
- Who has used FreeDV?
- How long ago did you use it?
- Do you remember the version?
- What was your experience?
- Why am I presenting FreeDV?
- What advantages does FreeDV offer?

What is FreeDV

- Digital Voice
- Bands - 10m to 160m
- Specific frequencies in the voice section of the band

Essential Features

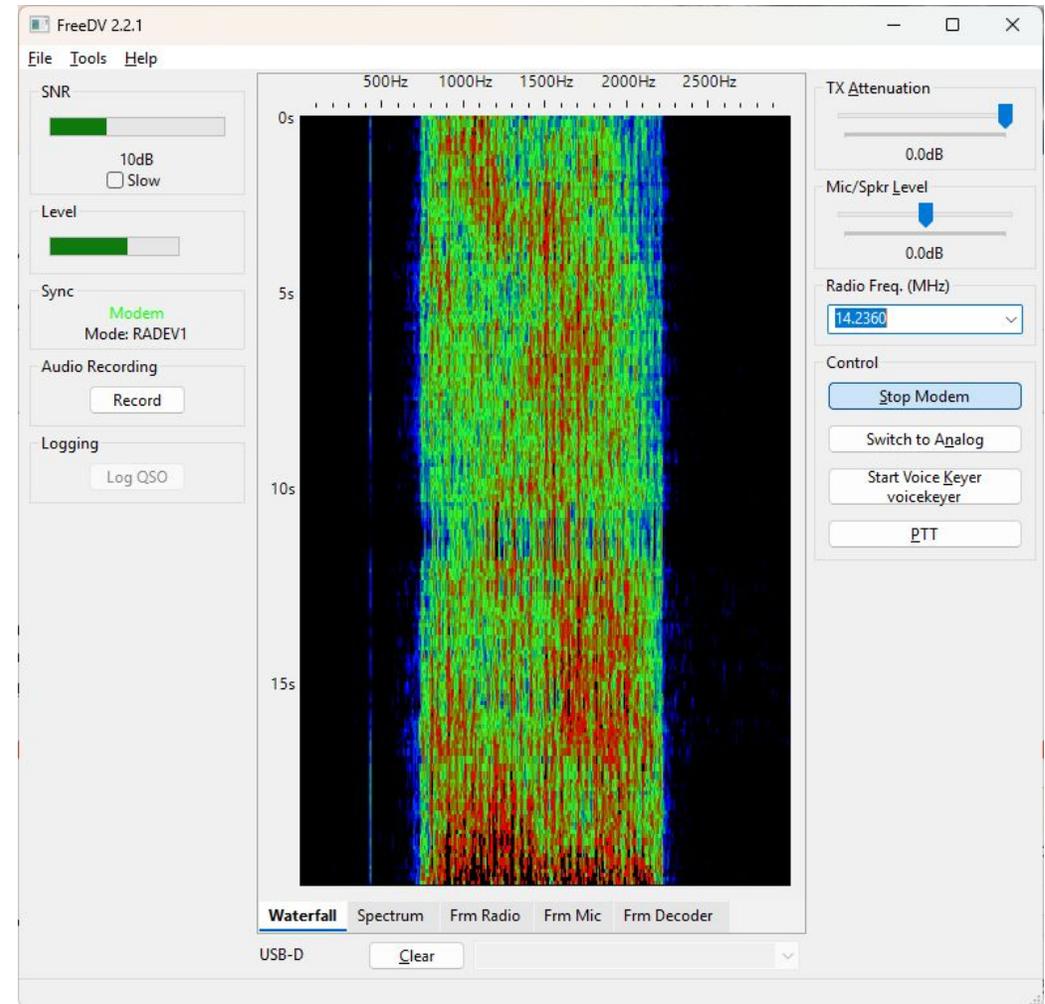
- Easy Setup
- RADE (Radio Autoencoder)
- Don't bother with anything below FreeDV 2.0

The screenshot shows the 'Easy Setup' dialog box with the following configuration:

- Step 1: Select Sound Device**
 - Radio Device: USB Audio CODEC
 - Decoded audio plays back through: LG HDR 4K (Intel(R) Display Audio)
 - Transmitted audio records through: Headset (PLT Focus)
 - Advanced button
- Step 2: Setup Radio Control**
 - Radio Control: Hamlib CAT Control (Other options: No PTT/CAT Control, Serial PTT)
 - Hamlib CAT Control
 - Rig Model: Icom IC-7300
 - Serial Device (or hostname:port): COM5
 - Radio Address: 00
 - Serial Rate: 4800
 - PTT uses: CAT
 - Advanced button
 - Test button
- Step 3: Setup Reporting**
 - Enable Reporting
 - Callsign: KC1TJD
 - Grid Square/Locator: FN42
 - OK button
 - Cancel button
 - Apply button

Using FreeDV

- Start Modem
- PTT (Push to Talk)
- Is this frequency in use? / CQ



FreeDV Reporter

- Accessed from main screen – Tools >> FreeDV Reporter
- Independent of the frequency you are currently using



The screenshot shows the FreeDV Reporter application window. The window title is "FreeDV Reporter". The main content is a table with the following columns: Callign, Locator, km, Hdq, Version, MHz, Mode, Status, Msg, Last TX, RX Call, Mode, SNR, and Last Update. The table contains 30 rows of data, each representing a station. The first row is highlighted in orange, and the rest are in blue. The bottom of the window has a control bar with buttons for "Close", "Request QSY", "Website", "Band: 20m", "Track", "Message: Kevin KC1TID Westford, MA L", "Send", and "Clear".

Callign	Locator	km	Hdq	Version	MHz	Mode	Status	Msg	Last TX	RX Call	Mode	SNR	Last Update
AJ6LG	CM97af	4,323	280	FreeDV 2.1.0	14.2278	RADEV1	TX	Jeff in Los Gatos CA	02/07/26 13:55:48				02/07/26 13:55:48
W0XLD	DM78	2,889	273	FreeDV 2.1.0	14.2330	RADEV1	RX	Colorado Springs					02/07/26 13:55:35
DC3LH	JO53hu	5,837	47	FreeDV 2.2.1	14.2337	RADEV1	RX		02/07/26 13:50:07				02/07/26 13:50:18
AC6RB	DM13do	4,153	272	FreeDV 2.1.0	14.2360	RADEV1	RX						02/07/26 07:57:25
HB9JO	JN46fw	6,021	56	FreeDV 2.1.0	14.2360		RX Only	s8bitx-v3/fw5.2					02/07/26 10:07:49
W6NUT	DM68wt	2,970	274	FreeDV 2.1.0	14.2360		RX Only						02/07/26 13:02:56
AC6RB	DM13do	4,153	272	FreeDV 2.2.0	14.2360	RADEV1	RX	WhatsApp = +19493578062 Hablo Espanol	02/07/26 07:57:19				02/07/26 13:04:21
VA2O	FN46qc	402	4	FreeDV 2.2.0	14.2360	RADEV1	RX						02/07/26 13:25:28
W6NUT	DM68wt	2,970	274	FreeDV 2.1.0	14.2360	700D	RX		02/07/26 13:42:50				02/07/26 13:43:02
KE8LHX	EN81et	1,043	270	FreeDV 2.2.0	14.2360	RADEV1	RX	Ed Temperance MI					02/07/26 13:47:39
AD9BX	EN51	1,489	272	FreeDV 2.2.0	14.2360	RADEV1	RX	Jim , Oswego IL u.s.a	02/07/26 13:09:30				02/07/26 13:48:12
KB3CS	FM09	749	246	FreeDV 2.2.1	14.2360	RADEV1	RX	Chris - Western MD			RADEV1	-8.0	02/07/26 13:55:47
Y05MOA	KN06to	6,907	51	FreeDV 2.2.0	14.2360	RADEV1	RX	Aurel,Romania,IC-7300,WINDOM Antenna...	02/07/26 13:54:34				02/07/26 13:54:48
VE7DH	CN89nf	4,004	299	FreeDV 2.2.0	14.2360	RADEV1	RX	Roy-Vancouver			RADEV1	-4.0	02/07/26 13:55:50
W9EDD	EN61aw	1,396	273	FreeDV 2.2.1	14.2360		RX Only	No TX audio at the moment!			RADEV1	-8.0	02/07/26 13:54:12
AB4LW	EL98	1,798	213	FreeDV 2.2.0	14.2360	RADEV1	RX	CQ CQ	02/07/26 13:50:53				02/07/26 13:54:41
N4ICV	EM96	1,086	235	FreeDV 2.2.0	14.2360	RADEV1	RX	Terry SW Va			RADEV1	-4.0	02/07/26 13:55:50
W3HH	EL89vb	1,800	218	FreeDV 2.1.0	14.2360	RADEV1	RX				RADEV1	-3.0	02/07/26 13:54:22
AA0KM	EM39jc	1,901	266	FreeDV 2.2.1-dev-5d4cf	14.2360	RADEV1	RX	Jeff-Marshall, Missouri			RADEV1	-2.0	02/07/26 13:55:50
KA1PIT	FN42	0		FreeDV 2.2.0	14.2360		RX Only	SDR++ - Brown app to VB-Cable to FreeDV			RADEV1	-4.0	02/07/26 13:55:52
VE3SJA	FN14	532	297	FreeDV 2.2.0	14.2360	RADEV1	RX		02/07/26 13:35:20				02/07/26 13:55:50
W4GOK	EM64ds	1,682	245	FreeDV 2.2.1	14.2360	RADEV1	RX	Steve - Sheffield, AL	02/07/26 13:32:51				02/07/26 13:55:25
AES0Q	DM79ob	2,852	274	FreeDV 2.2.0	14.2360	RADEV1	RX		02/07/26 13:54:10				02/07/26 13:55:53
K0PFX	EM48sr	1,691	262	FreeDV 2.2.1	14.2360	RADEV1	RX	Mel in MO	02/07/26 13:20:20				02/07/26 13:55:31
WASQPZ	EM10fe	2,726	249	FreeDV 2.2.0	14.2360	RADEV1	RX	Dudley - Austin, Tx, Flex 6700			RADEV1	6.0	02/07/26 13:55:50
K6LJ	EM10bc	2,757	249	freedv-flex 2.2.0	14.2360	RADEV1	RX	Ray, Buda, Tx			RADEV1	-2.0	02/07/26 13:55:53
KA2EEU	EM20gc	2,575	246	freedv-flex 2.2.0	14.2360		RX	Scott Spring, TX USA Flex 6600M			RADEV1	-8.0	02/07/26 13:55:26
WJ8A	EN83	981	281	FreeDV 2.1.0	14.2360	RADEV1	RX	Doug in Davison, MI USA	02/05/26 11:53:21				02/07/26 13:55:50
VA3ZW	FN05gi	748	298	FreeDV 2.2.0	14.2360	RADEV1	RX	Jim in Huntsville Ont	02/07/26 09:35:19				02/07/26 13:55:50
WX7Y	DM49If	3,355	278	freedv-flex 2.2.1-dev-46b3	14.2360		RX	Bret WX7Y Castle Dale Utah			RADEV1	13.0	02/07/26 13:55:50
WA9WUD	EN61ow	1,273	272	freedv-flex 2.2.1-dev-b8e2	14.2360	RADEV1	RX	Alan in Baroda Michigan Flex			RADEV1	0.0	02/07/26 13:55:49
N5DUP	EM02ch	2,766	255	FreeDV 2.2.0	14.2360	RADEV1	RX	Paul - Tuscola, TX			RADEV1	16.0	02/07/26 13:55:52
KC1TID	FN42	0		FreeDV 2.1.0	14.2360	RADEV1	RX	Kevin KC1TID Westford, MA USA					02/07/26 13:53:59
NA7DO	CN87	4,049	296	FreeDV 2.2.0	14.2360	RADEV1	RX				RADEV1	-5.0	02/07/26 13:55:51

Supported Environments

- Current Version – 2.2.1
 - Released – 07Feb2026
 - Bug fix release
- Operating System Support
 - Windows - exe
 - MacOS - dmg
 - Linux - ApplImage

Andy's Ham Radio Linux

- V26e released Nov 2025 contains FreeDV 2.1.0
- V25d released Apr 2025 contains FreeDV 1.9.9

References

- **FreeDV** - <https://freedv.org/>
- **BARS December 2025 Newsletter** - <https://www.w1hh.org/wp-content/uploads/2025/11/BARSDecember2025Newsletter.pdf>

HamClock Andy KB1OIQ

The HamClock interface displays the following information:

- KB1OIQ** (Call Sign)
- 19:23 46** (Time)
- Sun Feb 8, 2026** (Date)
- DXC DXPeds** (DX Pedestal) with a list of active DXpeditions:
 - Martinique FM Mon Jan 12 - Mon Mar 23
 - Desecheo I KP5 Mon Jan 12 - Tue Feb 10
 - Guyana 8R1TM Thu Jan 15 - Mon Feb 23
 - Kenya 5Z4 Thu Jan 15 - Sat Feb 28
- Live Spots** of FK68 - PSK 15 mins:

160m	0	17m	192
80m	0	15m	12
60m	0	12m	398
40m	0	10m	1216
30m	102	6m	1
20m	336	2m	0
- VOACAP DE-DX** (VOACAP DE-DX chart) with a grid showing signal strength and a list of stations: NCDXF, 14.10, 18.11, 21.15, 24.93, 28.20.
- DE:** UTC-4, 15:23 Feb 8, 18N 68W, FK68 (S in 3:05, R 8:20 ago)
- DX:** UTC-5, 14:23 Feb 8, 42N 72W, FN42 (S in 2:47, R 7:30 ago), 1675i@353p
- World Map:** A world map showing signal strength and reliability. A legend at the bottom indicates % Reliability from 20 to 100. A banner at the bottom of the map reads: **ARNewsLine.org: YLS MARK INT'L WOMEN'S DAY WITH POTA PARTY**

HamClock Update

- Creator: Elwood Downey WB0OEW (SK)
 - <https://www.clearskyinstitute.com/ham/HamClock/>

HamClock has reached end-of-life, the last release is version 4.22.
All HamClocks will cease to function in June 2026.
Thank you for your interest.

Elwood Downey, WB0OEW, ecdowney@clearskyinstitute.com

- There is a lot of activity to keep HamClock working
(the beauty of Free Software / Open Source)
 - Backend code is being modified to possibly work on a different server

OpenHamClock

- OpenHamClock
 - Can be run directly from a website: <http://openhamclock.com>
 - Code available on Github: <https://github.com/accius/openhamclock>
 - MIT license
 - Local installation is also supported

OpenHamClock Screenshot

The screenshot displays the OpenHamClock web interface. At the top, it shows the user's call sign **KB10IQ**, version **v15.3.3**, and the current time in UTC (**20:20:00**) and local time (**15:20:00**) on Saturday, February 14, 2026. The weather is **35°F** with clear skies. Navigation links for **Donate**, **PayPal**, and **Settings** are visible.

DE - YOUR LOCATION: **FN42mm** (42.5000°, -71.0000°) with a sun icon, **35°F** Clear sky, and a wind speed of 8 mph. Active time is **11:42 - 22:14**.

DX - TARGET: **KN14oh** (44.3056°, 23.1725°) with a beam direction of **52°** and **232°** LP, and a distance of **7,151 km**. Active time is **05:28 - 15:55**. Weather is **46°F** Overcast with 5 mph wind.

SOLAR: Shows a live image of the sun from NASA's SDO/AIA. The sunspot number is **Corona**.

The central map shows the location of **DE** (Germany) and **DX** (North America) with a dashed yellow arc representing the great circle path. A 'Dark' theme toggle is present.

DX CLUSTER: LIVE 0/0. Search filters and a 'ON' button are available. A search bar contains 'Quick search...'. A message states 'No spots available'.

PSKReporter: WSJT-X. Shows 'Heard (0)' and 'Hearing (0)'. A message says 'Connection failed? tap refresh?'.

DXPEDITIONS: 20 active. Lists **J38WG** (Brenada) and **KPS** (NOA).

POTA: Shows 'POTA ACTIVATORS' with 'No POTA spots' and a 'POTA OK' button.

CONTESTS: 9 LIVE. Lists 'YLRL YL-OM Contest Mixed' with '3h 38m Left'.

At the bottom, a 'DX NEWS' section reports 'as 5K3W from Colombia in CQ WW WPX RTTY Contest, 14 - 15 February 2026/' and 'TXSEU Raivave'. A 'WA7BNM Contest Calendar' link is also present.

HamTab

- HamTab

- POTA, SOTA, DX spotting
- Has some of the features of HamClock
- <https://www.hamtab.net/>
- Code available on Github: <https://github.com/stevencheist/HamTabv1>

DXLook

- DXLook
 - Realtime propagation visualization platform
 - <http://dxlook.com>

DXLook Screenshot

KB10IQ
FN42GO 42.6°N
71.5°W

UTC: 20:25:40
Sat Feb 14

Rise: 06:44 Set: 17:16
Rise: 05:23 Set: 14:12

Map Configuration
View: Summary
Band: 20m Mode: Digital
Filter by: Grid FN42GO
Go
Select a layer

Band Conditions
Global Personalized
SFI: 117 A: 5 K: 1 SN: 77
FN42FN (42.56°, -71.54°)
Day • Geo-Lat: 51.03°

Band	Day	Night
80m-40m	Poor	Good
30m-20m	Poor	Good
17m-15m	Fair	
12m-10m	Fair	

All 160m 80m 60m 40m 30m 20m 17m 15m 12m 10m 6m 2m X

Leaflet | © OpenStreetMap contributors

GlanceRF

- GlanceRF
 - “... a modern rebuild of the original HamClock ...”
 - Github: <https://github.com/pomtom44/GlanceRF>
 - Installs locally
 - This seems to be in the early stages

Additional References

- Facebook: HamClock Heaven