

Yaesu FT-897 SDR radio, WINRAD 1.6.1

Converter DRM 455-12 Khz

File AUDIO wav per Winrad



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Se avete intenzione di testare la ricezione SDR e disponete solamente di uno yaesu FT-897, 857, 817, modificato per la ricezione [DRM](#), quindi del piccolo converter 455-12 khz avete tutto quello di cui avete bisogno. Scaricate il software [WINRAD 1.6.1](#), selezionate la scheda audio di sistema, collegate l'uscita del converter all'ingresso LINEA del computer, installate e lanciate il software SDR. Posizionatevi con lo FT-897 per un veloce test su una frequenza con molte stazioni, magari in CW, esempio 7.020 Mhz, con VFO fermo e SDR in azione visualizzerete un spettrogramma di circa 22 Khz (il massimo che offre una scheda audio classica del tipo AC97). Potrete muovervi agevolmente all'interno dello spettro e sintonizzare tranquillamente stazioni CW e SSB, un breve test in gamma 144 Mhz SSB ha confermato il perfetto funzionamento, le stazioni SSB sono distinguibili e sintonizzabili su uno spettro di 22 Khz. Scaricate questo [files AUDIO .wav](#), (non ascoltabile con MediaPlayer) datelo in pasto a WINRAD e giudicate voi stessi. Addirittura potrete fare delle prove SDR senza neanche avere il convertitore, basta eseguire la modifica con il condensatore, simulando il FILTRO, [CFIL N/A 2,3] a quel punto avete un uscita a 455 Khz che andra' al converter 455-12 khz, ma anche restituita e ascoltabile sulla BF della radio e contemporaneamente presente e disponibile sulla presa DATA dell'897... il collegamento audio FT897- PC, per operare nei modi digitali, sara' sufficiente per processare l'audio con WINRAD SDR , e ben 22 Khz di banda passante, non prima pero' di aver selezionato il [falso FILTRO IF](#) sub-menu N dell'rtx, provare per credere :-)



The screenshot displays the Winrad software interface. At the top, there are menu options: Show Options, Select Sound Card, Select Sample Rate, Stop, Minimize, About, and Exit. The frequency is set to 145,906.88 kHz. The main display area shows a spectrum plot with a large yellow text overlay reading "WINRAD Vers. 1,6,1" and "I2PHD" in green. Below the main plot is a smaller plot with a frequency range from 1000 to 5000 Hz. The bottom left contains a control panel with a speed dial (set to 7.10), AGC On, Thr Vol, Mute, and a phase meter. The bottom right shows a privilege panel with buttons for Freq, Time, Mix, resolution, ZAP, AFC, N. Red., CW Peak, Noise blanker, Despread, and Wheel step (set to 100 Hz). The system tray at the bottom shows the date 07/01/2011 14.52.55, CPU Load, and Winrad (14%) running.

The screenshot displays the Winrad software interface for software-defined radio (SDR) operations. At the top, the frequency is set to 145,906.88 kHz. A menu is open on the left, showing options like 'Select Input', 'Sound Card', and 'Normal Process Priority'. The main display area features a waterfall plot with a blue background and a spectrum analyzer below it. The spectrum analyzer shows a signal peak around 145,906.88 kHz. The bottom panel includes various controls such as 'Speed', 'Gain', 'Contrast', 'AGC On', 'Phase', and 'Privilege'. The system tray at the bottom shows the date and time as 07/01/2011 14:53:42, along with a CPU load indicator and the Winrad application icon.

selezione Scheda AUDIO

Winrad - Sound Card selection

Input Sound Card
Creative Sound Blaster PCI
Reatek ACS7 Audio

Output Sound Card
Creative Sound Blaster PCI
Reatek ACS7 Audio

OK Cancel

145,905.69 kHz

Speed 710 Rev WE Avg RBW 23.4 Hz

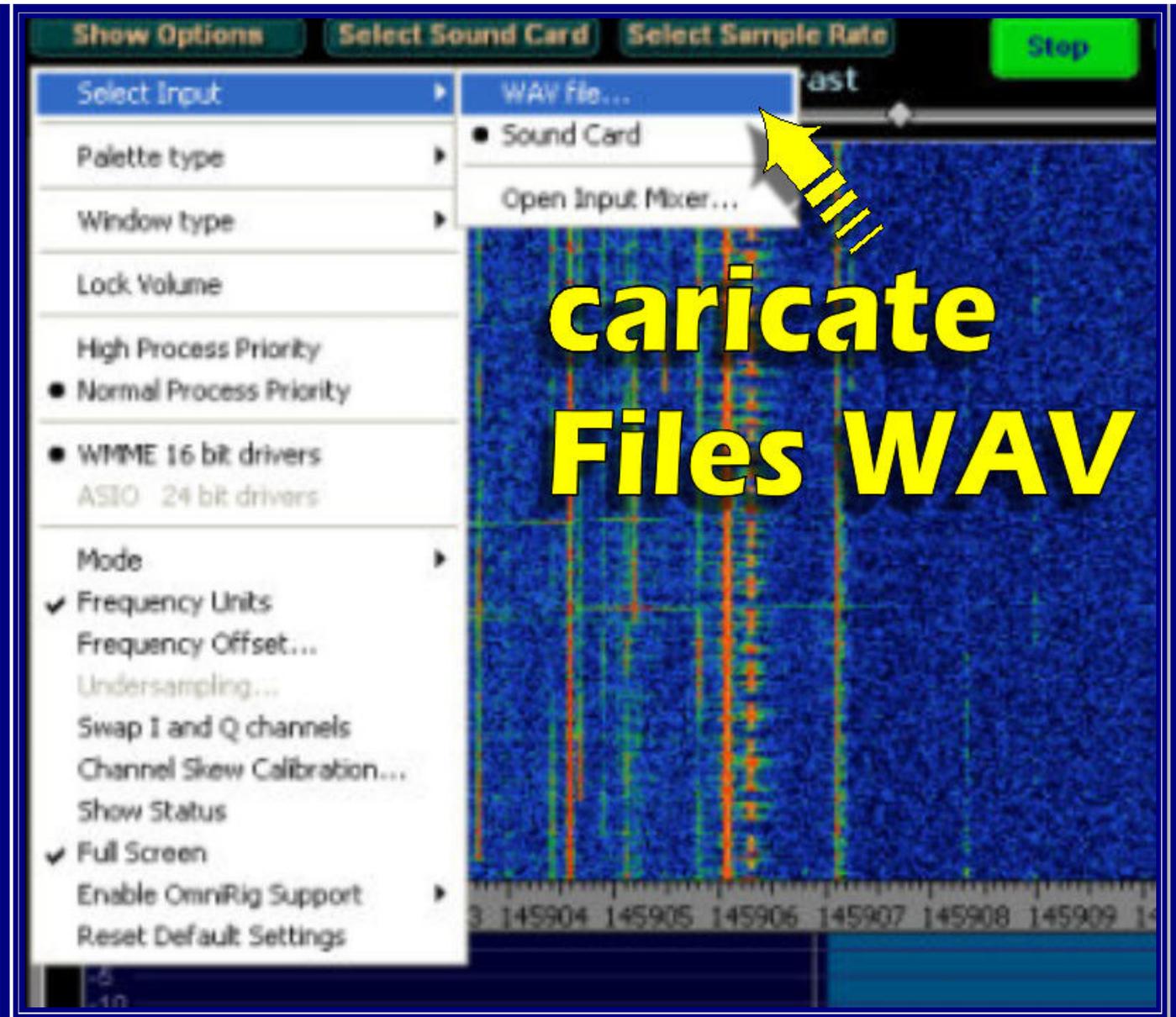
AGC On Thr Vol Phase

Privilege Freq Time Mix resolution ZAP AFC N. Red. CW Peak Noise Blanker Despread Wheel step 10 Hz 100 Hz

07/01/2011 14:55:22

The image shows a screenshot of the Winrad software interface. At the top, the frequency is set to 145,905.69 kHz. A menu is open on the left side, showing options like 'Select Input', 'Palette type', 'Window type', 'Lock Volume', 'High Process Priority', 'Normal Process Priority', 'WMM 16 bit drivers', 'ASIO 24 bit drivers', 'Mode', 'Frequency Units', 'Frequency Offset...', 'Undersampling...', 'Swap I and Q channels', 'Channel Skew Calibration...', 'Show Status', 'Full Screen', 'Enable OmnRig Support', and 'Reset Default Settings'. The 'Mode' sub-menu is expanded, showing 'Left Ch. only', 'Right Ch. only', 'Both channels added', and 'I (Left) / Q (Right)'. A yellow arrow points to the 'Left Ch. only' option. Overlaid on the screen in large yellow text is the instruction: 'selezionate 1 canale AUDIO per evitare stazioni speculari'. The interface also features a waterfall plot, a spectrum plot, and various control knobs and buttons for speed, gain, contrast, and volume.

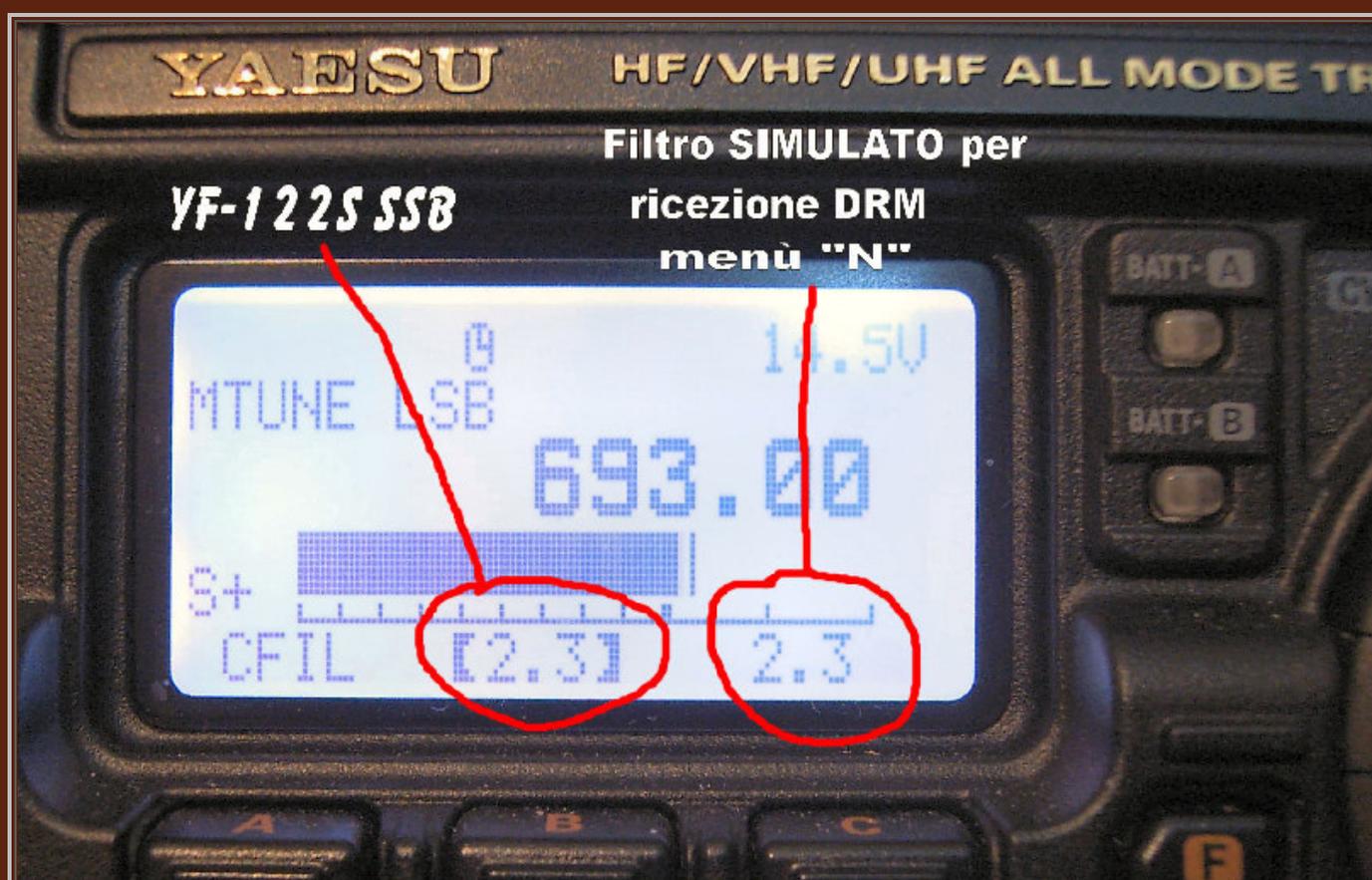
The screenshot displays the Winrad software interface. At the top, the frequency is set to 145,905.69 kHz. A large yellow text overlay reads: "i due canali AUDIO della SBlaster danno origine ad uno SPECTRUM doppio e SPECULARE" (two audio channels of SBlaster give rise to a double and SPECULAR spectrum). Below this, a green arrow points to the right side of the spectrum plot, labeled "spectrum audio destro" (right audio spectrum). A menu is open, showing the "Mode" selection with "T (Left) / Q (Right)" selected. The spectrum plot shows a mirrored signal, with a red dashed box highlighting the right-hand side. The interface includes various controls like "Speed", "Gain", "RBW 46.9 Hz", and "AGC On". The Windows taskbar at the bottom shows the date 07/01/2011 and time 14:57:20.

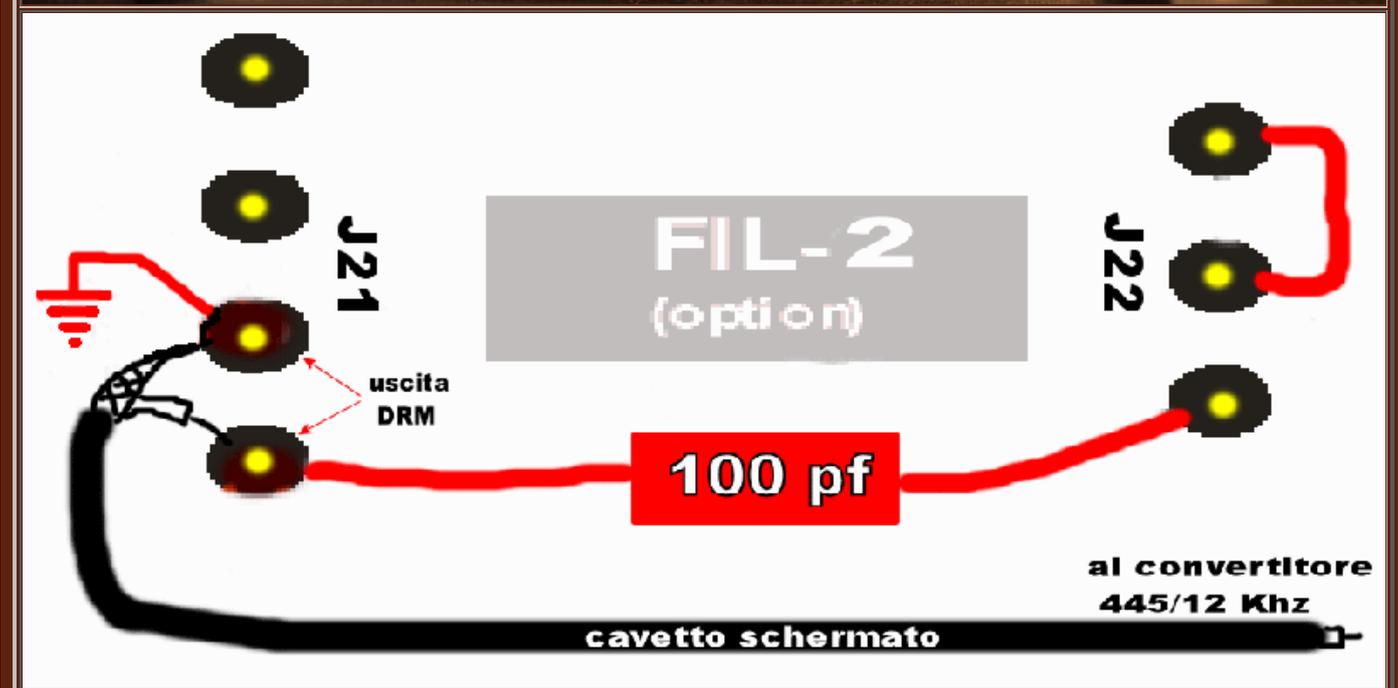
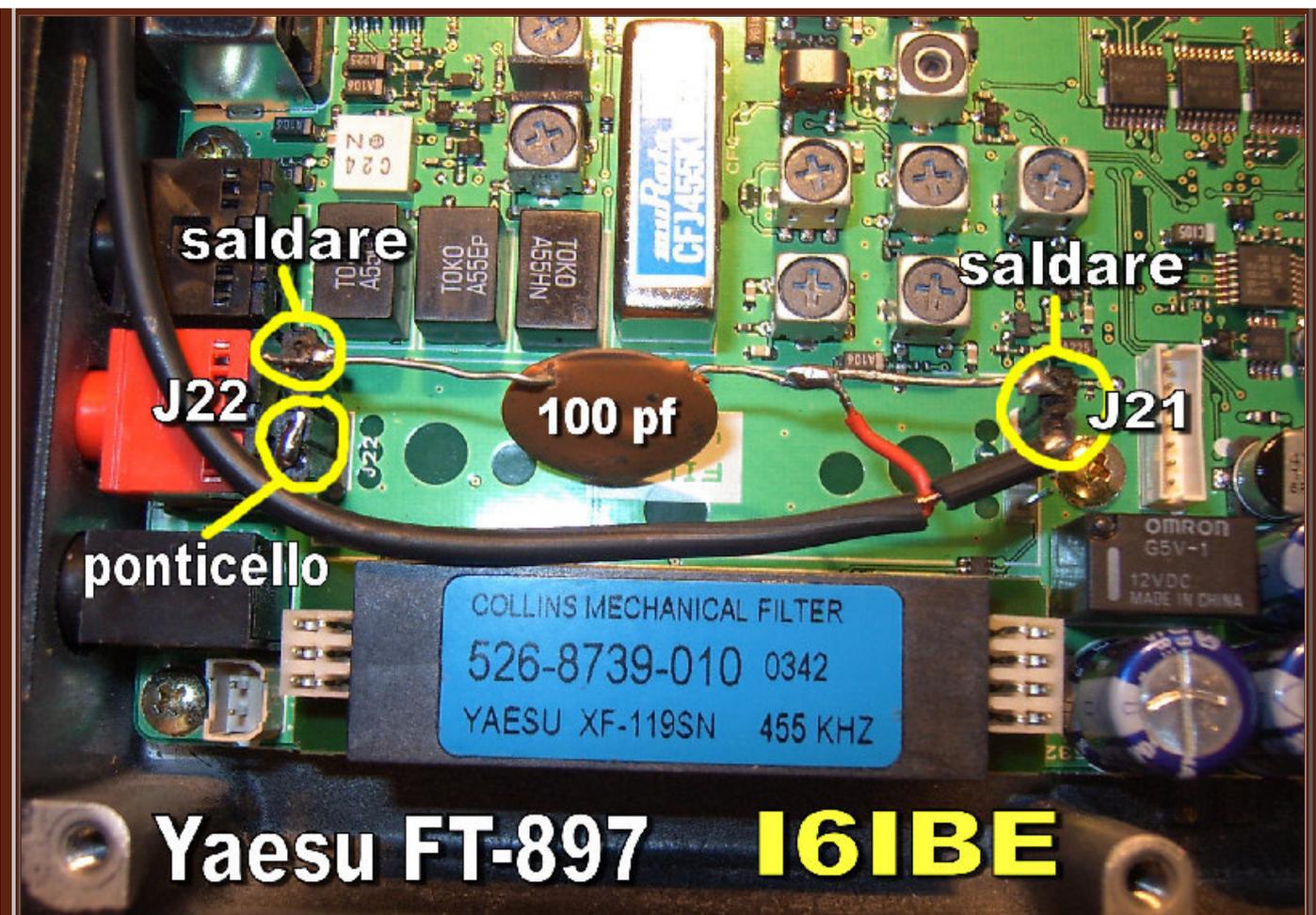


Yaesu FT-897, 857, 817 ricezione radio DRM

Per ricevere facilmente stazioni DRM con lo yaesu FT897 occorre un piccolissimo [convertitore](#) a basso costo 455/12 khz . La connessione e" semplicissima, basta simulare l'attivazione di un filtro opzionale facendo un cavallotto sui pin e inserendo un condensatore da 120 pf. Simulando l'attivazione di quel filtro sullo yaesu e selezionando opportunamente la sorgente audio su PC , la decodifica audio avver[sulle casse del computer, se disponete di un circuito CAT, all-interno del software troverete l-elenco delle stazioni DRM aggiornate e sintonizzabili con u semplice click di mause. Dream 1,7 [scarica il software](#) pre configurato

[DREAM1,7](#) download. Seguite le istruzioni del files PDF [LEGGIMI](#) , audio & video vedi il Video YouTube





I6IBE



Convertitore DRM 455/12 Khz

[File PDF modifica DRM, scarica FT-897](#) DREAM 1,7 [download](#)

Dream

SNR: **22.5 dB**

MSC WMER / MSC MER: 20.1 dB / 10.8 dB

DC Frequency of DRM Signal: 13615.85 Hz

Sample Frequency Offset: 0.62 Hz (12 ppm)

Doppler / Delay: 0.21 Hz / 10.46 ms

MSC CRC: DRM Mode / Bandwidth: 8 / 10 kHz

SDC CRC: Interleaver Depth: 2 s (Long Interleaving)

FAC CRC: SDC / MSC Mode: 16-QAM / SM 64-QAM

Frame Sync: Prot. Level (B / A): 0 / 0

Time Sync Acq: Number of Services: Audio: 1 / Data: 1

I/D Interface: Received time - date: Sat Oct 14 22:42:00 2006

Chart Selector: Audio Spectrum, SNR Spectrum, Channel, Constellation, FAC / SDC / MSC, FAC, SDC, MSC

MSC / SDC / FAC Constellation

Channel Estimation: Frequency Interpolation: Wiener, Linear, DFT Zero Pad

Channel Estimation: Time Interpolation: Wiener, Linear

Time Sync Tracking: Guard Energy, First Peak

Misc Settings: Flip Input Spectrum, MLC Number of Iterations: 1, Mute Audio

Interleaver Rejection: Bandpass Filter, Modified Metrics

Log File, Audio: Log File, Freq: 3995 kHz, Save Audio as WAV, Reverberation

Dream

View Settings 2

Level (dB): 0, -10, -20, -30, -40, -50

17.10 kbps EEP AAC+ P Stereo

Deutsche Welle

DE

Sicherheitsrat verhängt Sanktionen gegen Nordkorea

ID:445700

Current Affairs

1 Deutsche Welle | AAC+ P Stereo (17.10 kbps)

2 DW Journaline | Data: Journaline (0.36 kbps)

3

4

Dream

View: Remote Update

Station Name	Time [UTC]	Frequency [kHz]	Target	Power [kW]	Country	Site	Language	Days
RAI tests	0000-2400	693	Italy	30	Italy	Milano	Italian	daily
DLF	0000-2400	729	NE Germany	1	Germany	Putbus	German	daily
DLF	0000-2400	855	Berlin	10	Germany	Berlin-Britz	German	daily
Economic Ch.	0000-2400	1008	Prov. Hunan	4	China	Chang Sha	Chinese	daily
Tests	0000-2400	1386	West Sussex	?	Great Britain	Hickstead	English	daily
SWR Das Ding	0000-2400	1485	SW Germany	0.42	Germany	Mainz-Wolfsheim	German	daily
Oldestar Radio	0000-2400	1485	Berlin	1	Germany	SFN Berlin	German	daily
Vatican Radio	2210-2400	1530	Europe	60	Vatican	Santa Maria	various	daily
Oldstar Radio	2200-0400	1575	Europe	100	Germany	Bug	German	daily
wDR 2 Klassik	0000-2400	1593	W Germany	10	Germany	Langerberg	German	daily
DW	2200-0600	3995	Europe	90	Portugal	Sines	various	daily
RTL France	0000-2400	5990	Europe	50	Luxembourg	Junglinster	French	daily
BR-BSakt	0500-2305	6085	Europe	50	Germany	Ismaning	German	daily
RTL Radio	0000-2400	6095	Europe	50	Luxembourg	Junglinster	German	daily
Radio Sweden	2230-2300	9800	NE USA	70	Canada	Sackville	English	daily
Radio Kuwait	2200-0200	11675	NE USA	120	Kuwait	Sulaybiyah	Arabic	daily
RNZI	1851-0658	15720	Pacific	100	New Zealand	Rangitaki	English	daily
bite/press	0000-2400	15896	Erlangen	0.1	Germany	Erlangen	German	daily
various	0000-2400	25495	London	0.1	Great Britain	Crystal Palace	English	daily

S-Meter (dB) relative to SS: 60 50 40 30 20 10 0 10 20 30 40 50 60

22:42 UTC 3995 kHz

Dream

File

NewsService Journaline® NewsService Journaline®

Deutsche Welle's Journaline Service

- English News Headlines
- Deutsche Schlagzeilen

Receiving Status:

The screenshot displays the Dream software interface, which is used for DRM signal processing and analysis. The interface is divided into several windows:

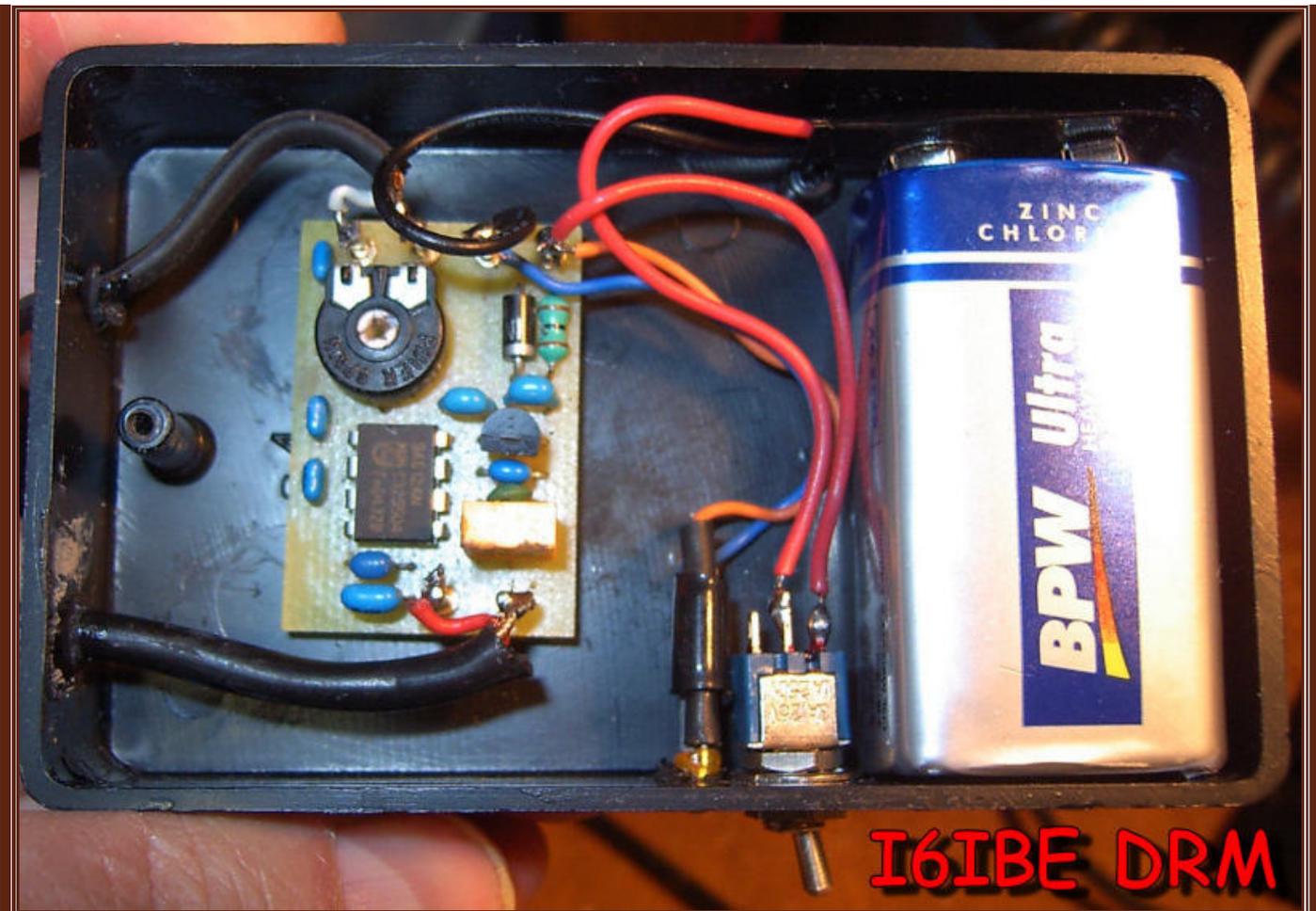
- Top Left Window:** Shows signal parameters such as SNR (9.6 dB), MSC WMER / MSC MER (13.0 dB / 3.6 dB), DC Frequency of DRM Signal (13612.64 Hz), Sample Frequency Offset (0.00 Hz (0 ppm)), and Doppler / Delay (0.93 Hz / 7.98 ms). It also displays CRC and sync information for MSC, SDC, and FAC.
- Top Right Window:** Shows the Dream logo and contact information for Volker Fischer, Alexander Kupfers, Darmstadt University of Technology, and Institute for Communication Technology. It displays the current signal as AAC(24 kHz)+SBR Mono / No language specified / Varied with a Bit Rate of 18.40 kbps EEP / ID:0.
- Middle Left Window:** Displays the MSC / SDC / FAC Constellation plot, showing the distribution of signal points in the complex plane. It includes a Chart Selector and various analysis options.
- Middle Right Window:** Shows the 'View Settings 2' window, which allows for selecting and configuring different radio services.
- Bottom Left Window:** Displays a station list with columns for Station Name, Time [UTC], Frequency [kHz], Target, Power [kW], Country, Site, Language, and Days. The 'Vatican Radio' entry is highlighted.
- Bottom Right Window:** Shows a message: "No data service or data service not supported."

The Windows taskbar at the bottom shows the Start button, several application icons, and the system tray with the time 0.50.

The screenshot displays the Dream software interface, which is used for receiving and processing DRM signals. The main window shows the following information:

- View Settings 1:**
 - Level (dB): 0 to -50
 - 19.68 kbps EEP AAC+ P-Stereo
 - RAI WAY DRM TEST
 - You are listening to Radio RAI with DRM from Italy Milan Siziano
 - Other language
 - ID-123456
 - Varied
- Channel Settings:**
 - SNR: 20.2 dB
 - MSC WMER / MSC MER: 20.2 dB / 20.6 dB
 - DC Frequency of DRM Signal: 13726.30 Hz
 - Sample Frequency Offset: 1.45 Hz (30 ppm)
 - Doppler / Delay: 0.24 Hz / 0.46 ms
- Constellation Diagrams:**
 - MSC / SDC / FAC Constellation: A scatter plot showing the constellation points for MSC, SDC, and FAC.
 - Chart Selector: Spectrum, Channel, Constellation, FAC / SDC / MSC, SDC, MSC.
- Channel Estimation:**
 - Frequency Interpolation: Wiener, Linear, DFT Zero Pad.
 - Time Interpolation: Wiener, Linear.
 - Time Sync Tracking: Guard Energy, First Peak.
- Misc Settings:**
 - Flip Input Spectrum
 - Mute Audio
 - Log File, Audio
 - Log File, Freq: 633 kHz
 - Save Audio as WAV
 - Reverberation
- Interferer Rejection:**
 - Bandpass Filter
 - Modified Metrics
- Station List (Dream - Remotes Update):**

Station Name	Time [UTC]	Frequency [kHz]	Target	Power [kW]	Country	Site
RAI tests	0000-2400	693 Italy	30 Italy		Italy	Milano
VoR (Simulcast)	0400-2200	693 Berlin	250 Germany		Germany	Dranienburg
DLF	0000-2400	729 NE Germany	1 Germany		Germany	Pubbus
DLF	0000-2400	855 Berlin	10 Germany		Germany	Berlin-Blitz
Economic Ch.	0000-2400	1008 Prov. Hunan	4 China		China	Chang Sha
BBCWS	0400-2200	1296 Europe	70 Great Britain		Great Britain	Ditfordness
Tests	0000-2400	1385 West Sussex	7 Great Britain		Great Britain	Hickstead
SWR Das Ding	0000-2400	1485 SW Germany	0.42 Germany		Germany	Mainz/Wolfsheim
Oldestar Radio	0000-2400	1485 Berlin	1 Germany		Germany	SPN Berlin
wDR 2 Klassik	0000-2400	1593 W Germany	10 Germany		Germany	Langerberg
TDF	1900-2067	3965 France	1 France		France	Issoudun
Dw	1600-2200	3995 Europe	200 Germany		Germany	Wertachtal
RTL France	0000-2400	5990 Europe	50 Luxembourg		Luxembourg	Junglinster
BR-B5akt	0500-2305	6095 Europe	50 Germany		Germany	Ismaring
RTL Radio	0000-2400	6095 Europe	50 Luxembourg		Luxembourg	Junglinster
Dw	1900-2100	7515 Europe	40 Russia		Russia	Taldom
Vatican Radio	1945-2030	9800 NE USA	70 Canada		Canada	Sackville
RNZI	1851-0658	15720 Pacific	100 New Zealand		New Zealand	Rangitaki
bits/press	0000-2400	15895 Erlangen	0.1 Germany		Germany	Erlangen
DVC	1800-2000	17660 Brazil	15 Chile		Chile	Santiago
various	0000-2400	25695 London	0.1 Great Britain		Great Britain	Crystal Palace
- Receiving Status:** No data service or data service not supported.
- S-Meter:** -60 to 60 dB (relative to 59).



I6IBE DRM



IK6IOQ Marco

Convertitore 455/12 khz DRM

Yaesu FT-857