

DE Beschreibung (Deutsch)

FTdx-5000 Display (DD2NU)

Dieses Programm ist eine kompakte Echtzeit-Anzeige für den Yaesu FTdx-5000 Transceiver. Es dient als übersichtliches Zusatzdisplay für den Parallelbetrieb mit Logging- oder SDR-Software.

Funktionen

- Anzeige von:
 - VFO-A und VFO-B Frequenz
 - Filterbreite (WID)
 - Digital Noise Reduction (DNR)
 - Contour / APF
 - Notch Filter
 - Shift
 - VRF
 - Automatische Anzeige der Frequenzdifferenz (DIFF/SPLIT)
 - Hervorhebung des aktiven TX-VFO
 - Sehr schnelle und flackerfreie Aktualisierung
 - Unterstützung des Yaesu CAT-Protokolls inkl. erweiterten KC-Befehlen
 - Optionales Logging der CAT-Daten
 - Frei konfigurierbare Buttons über `ini.txt`
-

Buttons

Die 9 Buttons können frei belegt werden:

- Name (Anzeige im Programm)
- Zugehörige Batch-Datei

Damit können beliebige Funktionen gesteuert werden, z. B.:

- SPLIT ON/OFF
- BK-IN ON/OFF
- Mode CW/SSB
- eigene CAT-Befehle oder externe Programme

Installation

1 Voraussetzungen

- Yaesu Ftdx-5000 „Menü 33 GENE CAT TOT“ muß auf 10 ms stehen!!
- CAT-Verbindung (z. B. über USB/COM-Port)
- VSPE (Virtual Serial Port Emulator ->Serial Router) für Parallelbetrieb von Programmen

2 Dateien

Alle Dateien müssen im gleichen Verzeichnis liegen:

- FTdx-5000_display_V1.1.exe
- ini.txt
- Batch-Dateien (* .bat)

3 ini.txt konfigurieren

Beispiel:

```
COM8
38400
Split ON
Split OFF
BK-IN ON
BK-IN OFF
QSK slow
QSK fast
Mode CW
Mode SSB
Custom
split_on.bat
split_off.bat
bk-in_on.bat
bk-in_off.bat
qsk_slow.bat
qsk_fast.bat
cw.bat
ssb.bat
custom.bat
```

Bedeutung:

1. Zeile: COM-Port
2. Zeile: Baudrate
3. Zeile: 3–11: Button-Namen
4. Zeile: 12–20: Batch-Dateien

👉 Falls Einträge fehlen, werden automatisch Standardwerte verwendet.

4 Batch-Dateien

Die Batch-Dateien führen die eigentlichen Aktionen aus.

Die Batch-Dateien müssen einen freien virtuellen COM-Port verwenden,

hier im Beispiel Batch-Dateien -> COM9 Display-Programm -> COM8

Beispiel (bk-in_on.bat):

```
@echo off
echo BI1; > \\.\com9 /b
```

Du kannst hier:

- CAT-Befehle senden
- Programme starten
- eigene Automationen bauen

5 Start

- Programm starten mit „start.bat“, dabei wird der „mode“ Befehl für die Batchdateien gesetzt und dann das EXE-Programm gestartet
- Verbindung wird automatisch aufgebaut
- Anzeige läuft in Echtzeit

Logging (optional)

Mit dem LOG-Button:

- LOG ON → CAT-Daten werden in cat_log.txt geschrieben
- LOG OFF → Logging deaktiviert

Hinweise

- Programm ist bewusst einfach gehalten
 - Fokus: Stabilität und schnelle Anzeige
 - Ideal als Ergänzung zu Logging-Software
-

Beispiel VSPE Konfiguration:

The screenshot displays the Virtual Serial Ports Emulator (VSPE) interface. The main window shows a list of devices and connectors. The 'Serial Router (Fanout): COM3 => COM8,9,12,13,14,15,16,17,18, SCU17/FTdx5k CAT' is highlighted. The 'Serial Router - Device properties...' dialog box is open, showing the 'Settings' tab. The 'Data processing mode' is set to 'Fanout'. The 'COM Port to use as a data source' is set to 'COM3'. The 'Speed' is 38400, 'Handshake' is None, 'RTS' is on, 'DTR' is on, 'Parity' is no, 'ByteSize' is 8, and 'StopBits' is 2. The 'Data transformers...' button is visible. The 'Target COM Ports' list includes COM8, COM9, COM12, COM13, COM14, COM15, COM16, COM17, COM18, COM19, and COM20. The 'Selected COM Port settings' for COM13 are shown, with 'Allowed to receive data' checked and 'Allowed to send data' unchecked. The 'Processing Priority' is set to 10. The 'Detect virtual ports with multiple lanes' checkbox is checked.

Device	Title	Status
Connector: COM8	FTdx-5000 Display	OK
Connector: COM9	FTdx-5000 Display/Batch	OK
Connector: COM12	FTdx-5000 Tool	OK
Serial Router (Fanout): COM3 => COM8,9,12,13,14,15,16,17,18, SCU17/FTdx5k CAT		OK
Connector: COM13	SDRconsole	OK
Connector: COM14	HAM Office	OK
Connector: COM15	DXlog.net	OK
Connector: COM16		OK
Connector: COM17		OK
Connector: COM18		OK
Connector: COM19		OK
Connector: COM20		OK
Connector: COM11	Winkey	OK
Serial Router (Fanout): COM10 => COM11	MicroHAM Device Router	Sto

Serial Router - Device properties...

Settings | Device description

Data processing mode

Data is sent to all targets ports

Fanout [Settings...]

COM Port to use as a data source

COM3 [Settings...] [Test]

Speed=38400 ; Handshake=None ; RTS=on ; DTR=on ; Parity=no ; ByteSize=8 ; StopBits=2

☐ Close if no connections

☐ Detect stale incoming data

[Data transformers...] [Data transformers...]

↓

Data processor

[Data transformers...] [Data transformers...]

↓

Target COM Ports

COM8
COM9
COM12
COM13
COM14
COM15
COM16
COM17
COM18
COM19
COM20

[Add COM Port]
[Delete COM Port...]

Selected COM Port settings

COM13 [Settings...] [Test]

☒ Allowed to receive data

☐ Allowed to send data

☐ Allowed to redirect modem registers

Processing Priority

10

☒ Detect virtual ports with multiple lanes

[OK] [Cancel] [Help]

GB English Version

FTdx-5000 Display (DD2NU)

This program is a compact real-time display for the Yaesu FTdx-5000 transceiver. It is designed as an additional visual interface for use alongside logging or SDR software.

Features

- Displays:
 - VFO-A and VFO-B frequency
 - Filter width (WID)
 - Digital Noise Reduction (DNR)
 - Contour / APF
 - Notch filter
 - Shift
 - VRF
 - Automatic frequency difference display (DIFF/SPLIT)
 - Active TX VFO highlighting
 - Fast and flicker-free updates
 - Supports Yaesu CAT protocol including extended KC commands
 - Optional CAT data logging
 - Fully configurable buttons via `ini.txt`
-

Buttons

All 9 buttons are configurable:

- Button label (displayed text)
- Assigned batch file

This allows custom control such as:

- SPLIT ON/OFF
- BK-IN ON/OFF
- Mode switching (CW/SSB)

- Custom CAT commands or external programs
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Installation

1 Requirements

- Yaesu Ftdx-5000 „**Menü 33 GENE CAT TOT**“ **must be set to 10 ms !!**
 - CAT connection (USB/COM port)
 - VSPE (Virtual Serial Port Emulator → Serial Router)
-

2 Files

All files must be placed in the same directory:

- FTdx-5000_display_V1.1.exe
 - ini.txt
 - Batch files (*.bat)
-

3 Configure ini.txt

Example:

```
COM8
38400
Split ON
Split OFF
BK-IN ON
BK-IN OFF
QSK slow
QSK fast
Mode CW
Mode SSB
Custom
split_on.bat
split_off.bat
bk-in_on.bat
bk-in_off.bat
qsk_slow.bat
qsk_fast.bat
cw.bat
ssb.bat
custom.bat
```

Structure:

1. COM port
2. Baud rate
3. 3–11: Button names
4. 12–20: Batch files

🔑 Missing entries will automatically use default values.

4 Batch Files

Batch files execute the actual commands.

The batch files must use a free virtual COM port,

in this example: Batch files -> COM9, Display program -> COM8

Example (bk-in_on.bat):

```
@echo off  
echo BI1; > \\.\com9 /b
```

You can use them to:

- Send CAT commands
 - Launch programs
 - Automate workflows
-

5 Start

- Start the program with "start.bat", which sets the "mode" command for batch files and then starts the EXE program.
 - Connection initializes automatically
 - Display updates in real time
-

Logging (optional)

Using the LOG button:

- LOG ON → CAT data is written to cat_log.txt
 - LOG OFF → Logging disabled
-

Notes

- The program is intentionally simple
- Focus on stability and speed
- Ideal companion for logging software