

## DGT Pi Upgrade

**Experience the most advanced over-the-board chess computer ever made, now faster, smarter, and with more ways to play.**

The DGT Pi remains as impressive as ever, now with exciting updates. Equipped with the upgraded Raspberry Pi 3B+, it delivers improved performance, faster processing, and more stable Bluetooth and Wi-Fi connectivity. Paired with the latest PicoChess V3.2 software, it offers a smoother, more responsive playing experience in every game. PicoChess is open-source software, allowing enthusiasts and hobbyists to customize and enhance the program to suit their needs.

Because of the upgraded Raspberry Pi hardware and the installation of the new PicoChess version, some parts of the included manual differ slightly from the actual product. The reboot process now takes approximately 60 seconds (previously around 20 seconds) to ensure all components and services are fully initialized before use.

This release also brings a range of menu adjustments and an expanded selection of playing options, featuring more than 45 new chess engines and over 30 additional opening books. From world-class grandmaster-strength engines to fun and challenging personalities, plus an enriched library of opening books, you now have more variety than ever. Explore new lines, practice strategies, and enjoy diverse playing styles.

A new Training Mode lets you play against the computer while receiving instant feedback. Once the game leaves the opening book, the system displays evaluations for both your moves and the computer's, helping you improve as you play and turning every game into a personalized coaching session.

The built-in PicoChess coaching tools, including Pico Watcher, Pico Coach, and Pico Explorer, give you extra guidance during your games and training, making the DGT Pi a true interactive learning partner.

For competitive players, a new Tournament timing option has been added. This allows you to play with classic time controls such as those used in official events, bringing the feel of professional competition to your home.

Some familiar modes have been renamed in the menus to better reflect their function. You can find their original descriptions in the manual (page 7) under the following previous names:

### **Current Name Previous Name**

Ponder	Brain
Analysis On	Ponder
Move Hint	Analysis
Eval. Score	Kibitz

The quick menu accessed with the extra queen has also been updated in PicoChess V3.2. Engine assignments have changed compared to the instructions on page 17 of the manual. The positions for selecting engines with the extra black queen are now:

- **a6** – from StockFish 8 to StockFish NN
- **b6** – from Texel 1.07 to StockFish 16
- **c6** – from Arasan 2030 to Texel 1.10
- **d6** – from Rodent 3229 to Arasan 234
- **e6** – from Zurichchess N to Rodent IV
- **f6** – from Wildchess to Rodent III
- **g6** – from Galjoen 371 to R3 Kids
- **h6** – from Sayuri to R3 School

### Updated menu structure for the easy method

The menu structure is shown on pages 11–14 of the manual. This menu has been updated, here is the new version.

```

> Mode
  > Normal > (mode set, exit menu)
  + Training > (mode set, exit menu)
  + Ponder on > (mode set, exit menu)
  + Move hint > (mode set, exit menu)
  + Eval score > (mode set, exit menu)
  + Observe > (mode set, exit menu)
  + Remote > (mode set, exit menu)
  + Analysis > (mode set, exit menu)
  + (return to Normal)

+ Position >side move W
  > +/- toggle "W – B" or "B – W"
  > uci 960 +/- Toggle "yes"/"no"(not all engines)
  > "scan board" > "Position OK" (game set, exit menu)

+ Time
  > Move Time
    > Movetime 1 > (time set, exit menu)
    + Movetime 3 > (time set, exit menu)
    + Movetime 5 > (time set, exit menu)
    + Movetime 10 > (time set, exit menu)
    + Movetime 15 > (time set, exit menu)
    + Movetime 30 > (time set, exit menu)
    + Movetime 60 > (time set, exit menu)
    + Movetime 90 > (time set, exit menu)
    + (return to Movetime 1)

  + Game Time
    + Gametime 1 > (time set, exit menu)
    + Gametime 3 > (time set, exit menu)
    + Gametime 5 > (time set, exit menu)
    + Gametime 10 > (time set, exit menu)
    + Gametime 15 > (time set, exit menu)
    + Gametime 30 > (time set, exit menu)
    + Gametime 60 > (time set, exit menu)
    + Gametime 90 > (time set, exit menu)
    + (return to Gametime 1)

  + Fischer
    + Fischer 11 > (time set, exit menu)
    + Fischer 3 2 > (time set, exit menu)
    + Fischer 5 3 > (time set, exit menu)
    + Fischer 10 5 > (time set, exit menu)
    + Fischer 15 10 > (time set, exit menu)
    + Fischer 30 15 > (time set, exit menu)
    + Fischer 60 20 > (time set, exit menu)
    + Fischer 90 30 > (time set, exit menu)
    + Fischer 0 5 > (time set, exit menu)
    + Fischer 0 10 > (time set, exit menu)
    + Fischer 0 15 > (time set, exit menu)

```



- + Fischer 0 20 > (time set, exit menu)
- + Fischer 0 30 > (time set, exit menu)
- + Fischer 0 60 > (time set, exit menu)
- + Fischer 0 90 > (time set, exit menu)
- + (return to Fischer 11)
  
- +Tournament >40 120 0 90 > (time set, exit menu)
  - +40 60 15 30 > (time set, exit menu)
  - +40 60 30 30 > (time set, exit menu)
  - +40 90 30 30 > (time set, exit menu)
  - +40 90 15 60 > (time set, exit menu)
  - +40 90 30 60 > (time set, exit menu)
  - +10 10 0 5 > (time set, exit menu)
  - +20 15 0 15 > (time set, exit menu)
  - +30 40 0 15 > (time set, exit menu)
  
- +Search Depth > Depth 1 > ( Depth set, exit menu)
  - + Depth 2 > ( Depth set, exit menu)
  - + Depth 3 > ( Depth set, exit menu)
  - + Depth 4 > ( Depth set, exit menu)
  - + Depth 10 > ( Depth set, exit menu)
  - + Depth 15 > ( Depth set, exit menu)
  - + Depth 20 > ( Depth set, exit menu)
  - + Depth 25 > ( Depth set, exit menu)
  - + (return to Depth 1)
  
- +Search Nodes > Nodes 1 > (Nodes set, exit menu)
  - + Nodes 5 > (Nodes set, exit menu)
  - + Nodes 10 > (Nodes set, exit menu)
  - + Nodes 25 > (Nodes set, exit menu)
  - + Nodes 50 > (Nodes set, exit menu)
  - + Nodes 100 > (Nodes set, exit menu)
  - + Nodes 250 > (Nodes set, exit menu)
  - + Nodes 500 > (Nodes set, exit menu)
  - + (return to Nodes 1)
  
- + Book + No book
  - + Flank
  - + Semi-open
  - + Open
  - + Closed
  - + Indian
  - + Fun
  - + Varied
  - + GM 1950
  - + Performance
  - + StockFish
  - + Anand
  - + Korchnoi
  - + Larsen
  - + Pro
  - + GM 2001
  - + Perfect
  - + Komodo
  - + Morphius
  - + Wasp
  - +Cerebellum
  - + Leela w3293
  - + Leela T610
  - + Human
  - + Irina
  - + Ranomi
  - + Feobos 3
  - + ELO 2400
  - + GM 2600
  - + Carlsen
  - + Kasparov
  - + Smyslov



- + Carlsen 2
- + GM Openings
- + Kramnik
- + Lasker
- + Tal
- + Steinitz
- + Spassky
- + Euwe
- + Capablanca
- + Botvinnik
- + Alekhine
- + Fischer
- + Karpov
- + Petrosian
- + Exotic
- + Gambit
- + (return to No Book)

- + Engine > Modern Engine
  - > StockfishNN > (select Elo: 1320 – 3190 or auto)
  - + Stockfish16 > (select Elo: 1320 – 3190 or auto)
  - + Texel 1.10 > (select level 0 – 10 )
  - + Arasan 23.4 > (select Elo: 1000 – 3300 or auto)
  - + Rodent IV > (select type and confirm)
  - + Rodent III > (select type and confirm)
  - + R3 Kids > (select type and confirm)
  - + R3 School > (select type and confirm)
  - + R3 Club > (select type and confirm)
  - + R3 League > (select type and confirm)
  - + R3 Masters > (select type and confirm)
  - + R3 Fun > (select type and confirm)
  - + R3 GMs > (select type and confirm)
  - + Zurich Mstr > (select level 0 – 20 )
  - + WyldChess > (Default/drunken)
  - + Galjoen0.41 > (select Elo: 1500 – 2600 or auto)
  - + Soyuri2018
  - + Floyd0.9
  - + Laser 18beta
  - + Robocide0.4
  - + Vajolet2280
  - + Crystal v4 > (select level 0 – 20 or analysis)
  - + CT800v 1.45 > (select Elo: 1000 – 2400 or auto)
  - + Dragontooth > (select cores: 1 – 4)
  - + Igel 3.0.10 > (select level 0 – 20 )
  - + Lc0 v0.30.0 > (select cores: 1 – 4)
  - + Maia 0.24.1 > (select Elo: 1100 – 1900)
  - + McBrain 9.9 > (select type and confirm)
  - + Saruman
  - + Stash31.6
  - + Wasp 6.59 > (select Elo: 1500 – 3271)
  - + BIK Diam NN > (select type and confirm)
  - + Bluefish NN > (select type and confirm)
  - + Ethereal NN
  - + Harmon NNUE > (select type and confirm)
  - + Honey NNUE > (select type and confirm)
  - + Ok.MaguroNN > (select type and confirm)
  - + RubiChessNN > (select cores: 1 – 4)
  - + WeakFish NN > (select level 0 – 20 )
  - + PGN Replay > (select type and confirm)
  - + OnlineFICS > (select type and confirm)
  - + Centaur > (select type and confirm)
  - + Sargon I > (select level 1 – 4 or original)
  - + AdaptiveEng > (select level 1 – 3)
  - + RandomMove
  - + SunFish
  - + Feeks
  - + AlphaBeta
  - + NewChess > (select level 1 – 3)
  - + Torres
  - + Turing > (select level 1 – 5)



- + PlanKalkuel > (select level 1 – 4)
- + SOMA
- + Bernstein > (select level 1 – 3)
- + Shannon > (select level 1 – 5)
- + (return to StockfishNN)
  
- + Retro Engine
  - > Meph, MM IV > (select type and confirm)
  - + Mephis MM V > (select type and confirm)
  - + Mep Rebel 5 > (select type and confirm)
  - + M, Amsterdam > (select type and confirm)
  - + Meph Dallas > (select type and confirm)
  - + Mephis Roma > (select type and confirm)
  - + (return to Meph, MM IV)
  
- +Retro-Settg
  - > Full/Window
  - + Retro-Speed > (select level 25 – 1000)
  - + Retro-Sound > “on/off”
  - + Retro- ArtwK > “on/off”
  - + Retro-Info
  - + (return to Full/Window)
  
- +Favorite
  - > StockfishNN > (select Elo: 1320 – 3190 or auto)
  - + StockFish 16 > (select Elo: 1320 – 3190 or auto)
  - + Rodent IV > (select type and confirm)
  - + (return to StockfishNN)
  
- + System
  - >Power
    - > Shut down
    - + Restart
  - + Information
    - > Version > “PicoChess 3.2” (or other version, exit menu)
    - + IP adr > “No IP address” (exit menu)
    - + BT battery > “Battery NA” or Voltage (exit menu)
    - + (return to Power)
  
  - + Sound
    - > “Sometimes” > “ok beep” (beep set, exit menu)
    - + Always > “ok beep” (beep set, exit menu)
    - + Sample > “ok beep” (beep set, exit menu)
    - + Never > “ok beep” (beep set, exit menu)
    - + (return to Sometimes)
  
  - + Language
    - > English > “ok language” (language set, exit menu)
    - + German > “ok Sprache” (language set, exit menu)
    - + Dutch > “ok taal” (language set, exit menu)
    - + French > “ok langue” (language set, exit menu)
    - + Spanish > “ok idioma” (language set, exit menu)
    - + Italian > “linguo ok” (language set, exit menu)
    - + (return to English)
  
  - + Mail Logfile > “Ok logfile”(exit menu)
    - + Voice > Picovoice > “on/off” > (Select language) > (Select person) > “ok Voice”, exit)
    - + Uservoice > “on/off” > (Select language) > (Select person) > “ok Voice”,exit)
    - + Voice Volume > (Select 0 – 10) > Okay Volume
    - + Voicespeed > (Select 0 - 9) > “ok Voice SP, exit menu)
    - + (return to Picovoice)
  
  - + Display
    - > Clock Side
      - > Clock left > Ok Clock L Side
      - + Clock right > Ok Clock R Side
    - “Ponder int” > (Select 1 -8) > “ok Pond int” (exit menu)
    - + “Confirm msg” > (Select on /off) > “ok Confirm”(exit menu)
    - + Engine name > “on/off”
    - + “Cof letters” > (Select on /off) > “ok Capital”(exit menu”)
    - + Move Notation > Nota short > “Ok Notation”
    - + Nota long > “Ok Notation”
    - + (return to Clock Side)
  
  - + E-Board > DGT
    - > “Ok e-Board”
    - + No e-Board
    - + Certabo



- + ChessLink
- + Chessnut
- + (return to DGT)
  
- +Web-Theme
  - > Theme auto > "Ok theme"
  - + Theme light > "Ok theme"
  - + Theme dark > "Ok theme"
  - + Theme time > "Ok theme"
  - + (return to Theme auto)
  
- + Pico Tutor
  - >Pico Watcher > Watcher on/off > "Watcher ok"
  - +Pico Coach > Coach on/off > "Coach ok"
  - +Pico Explorer > Explorer on/off > "Explorer ok"
  - +Pico Comments > Comments on/off > "Comments ok"
  - +Comments Prob > (Select 0 -100%) > "Comments ok"
  - + (return to Pico Watcher)
  
- + Game Set up
  - >Save game > (Select 1 -3) > "Ok save"
  - +Read game > (select type and confirm) > "Ok Read"
  - +Altern move > (Select on /off) > " Alt move ok"
  - +Cont game > (Select on /off) > " Cont game ok"
  - + New game > (Select yes /no) > "Ok"
  - + Take back > "Ok"
  - + Game ending > (select option and confirm)
  - + (return to save game)

As mentioned in the manual, PicoChess software versions may change over time. This guide refers to version 3.2, but future updates and features might not be covered here. For the latest software information, visit the PicoChess Google group:

<https://groups.google.com/g/picochess>.