SenseRobot Chess

BOBOT

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Product Introduction

SenseRobot Chess







Three major innovative technologies



Robotic arm designed for the home use, grasping 3D chess pieces freely



Feature and Spec



Feature		
Language	UI: English Voice: English	
Туре	Chess Robot	
Al Levels	 25 levels (ELO200~2900) Apex Duel (ELO3200) 	
Endgames	145 endgames in six groups	
Chess Lessons	Introductory and Primary Courses	
Chess Exercises	1200+	
Online Chess	Lichess.org	
Classic Game Review	100 classic games	
Self-set chess game	Y	

Spec		
Product Model	RC3G-I	
Size	Width 570mm , Depth 470mm , Height 385mm	
Weight	5kg (including board, 34 chess pieces and power adapter)	
Materials	Aluminum alloy inside, plastic ABS outside	
Board	Board Tray + Chess Board	
Display	5.5" 1280x720	
Network	WiFi 802.11 b/g/n/ac 2.4/5GHz	
Robotic Arm	4 degrees of freedom, gripper	
Camera	Game camera x1	
Speaker	4Ω3W	
Human-robot interaction	Button control, microphone	
Power supply	12V-3A	

Features Overview

• [Challenge AI] 25 levels of build-in AI from beginner to grandmaster (covering ELO200~2900)





Chess Al



Challenge Al	Beginner Entry Intermediate	Level 1 (200) Level 2 (250) Level 3 (300) Level 4 (350) Level 5 (400) Level 5 (400) Level 6 (450) Level 7 (500) Level 8 (550) Level 8 (550) Level 9 (600) Level 10 (700) Level 11 (800) Level 12 (900) Level 12 (900) Level 13 (1000) Level 14 (1100)
	Advanced	Level 15 (1200) Level 16 (1300) Level 17 (1400) Level 18 (1500) Level 19 (1700)
	Master	Level 20 (1900) Level 21 (2100) Level 22 (2300)
	Grand Master	Level 23 (2500) Level 24 (2700) Level 25 (2900)
Apex Duel		3200

Remark:

- The game supports [Undo Move] and [AI hint] functions, limited to three times per game;
- The ELO score in brackets refers to the FIDE rating;
- Grand Master and Apex Duel require internet connection

Endgame	First level menu	Secondary menu Number of situation		Number of situations		
			Two Rooks Mate	5		
			Queen Mate	5		
		Checkmate	Rook Mate	5	Remark:	
		Спесктаte	Two Bishops Mate	5		
			Bishop and Knight Mate	5	1. Endgame is only available	
			Queen vs Rook	5	when the robot is connected to	
			Winning King and Pawn	5	the Internet.; 2. User only can use white chess	
			Drawn King and Pawn	5	pieces, and SenseRobot uses	
		Pawn	Intermediate Wins	5	level 10 chess AI to play	
		Fawii	Intermediate Daws	5	endgame against user ;	
			Advanced Wins	5	3. The logged-in user can choose	
		Advanced Draws	5	any endgame in the secondary		
		Minor Piece	Bishop	5	menu to play, but five situations	
	Endgame		Knight	5	 under a certain endgame need to be unlocked one by one. 4. Under the visitor mode, user can use the first situation of each endgame, but following four situations are not open; 5. SenseRobot will time each level-clearing time of the user, and display the clearance time 	
			Knight vs Bishop	5		
	Challenge		Knight vs. Pawns	5		
	-		Bishop vs Pawn	5		
			Winning Rook Endings	5		
		Rook	Drawn Rook Endings	5		
			Rook vs Pawns	5		
			Basic Queen Endings	5		
		Queen	Defending Queen Endings	5	after the level-clearing. Later, the	
		Queen	Advanced Queen Endings	5	user's clearance time will be	
		Queen vs Pawns	5	ranked on the App side.		
		Rook vs Minor Piece	5			
	Imbalances	Rook vs Two Minor Pieces	5			
		Imbalances	Queen vs Two Rooks	5		
			Basic Imbalances	5		
		Advanced Imbalances	5			

Courses & Exercises



- 1. 11 Beginner Courses Learn Key Moves and Openings
- 2. 1200+ exercises, covering levels from entry to master;
- 3. Exercise types include capture, multiple choice, single-step path, and multi-step path;
- 4. When an exercise has many steps or the answer is not unique, AI chess engine will help users to get the point in a relatively free way.

Online Chess





Real-person online chess

- Support Lichess
- Support App account binding and replay
- Support electronic chessboard display
- If the piece side assigned by lichess to the user is inconsistent with the user's current chess game, user can change the piece side by rotating the chessboard.

Self-set chess game

	Your Color	< White >
	Move Order	· · < White First >
	En Passant Capture	< Not Allowed >
	White can Castle	Soth Short and bong >
	Black Can Castle	Soth Short and bong >
▷ Next <<		
Nexto .		

- 1. Users can set up the situation they desire and play chess against the robot;
- 2. In this mode, you can also choose different AI levels to play chess against the robot;
- 3. Users can utilize this function to analyze and study chess games.

Classic Game Review



- 100 Classic chess games with great value for improving your chess skills;
- Covering all kinds of classic opening systems



- The robot automatically play the chess game on the chessboard, accompanied by screen display and voice explanation;
- User can interrupt the game at a certain point in the middle and start playing against the AI from the current point.



