

NOVAG<sup>TM</sup>  
PRESENTS  
THE  
1981  
CHESS  
COMPUTERS

**Novag Presents  
the 1981 Chess Computers**

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# NOVAG™ 3rd GENERATION CHESS COMPUTERS

## PROGRAMME MODULES

The programme modules of NOVAG's SUPER SENSOR IV, SAVANT and ROBOT ADVERSARY provide for future extensions/exchanges for new, more powerful programmes. In addition classical chess game modules will soon be available only from Novag. Inserting the modules is simple.

## 24K MYCHESS PROGRAMME by DAVID KITTINGER

The MYCHESS programme in NOVAG's SAVANT and ROBOT ADVERSARY ranks supreme amongst all commercial chess computers with exceptional analytical depth and speed. In the higher levels MYCHESS can think up to 9 ply ahead. Nonetheless it still gives the average chess player a chance to win on the lower levels.

MYCHESS was tested extensively against other commercial chess computers and even won against giant scientific computers.

The MYCHESS programme is a true partner and teacher for beginners as well as being a serious challenge for the expert.

MYCHESS has 10 levels of play incorporating all standard features that are nowadays expected of chess computers — such as automatic castling, automatic capturing en passant etc. — it also has pawn promotion to any piece as well as ALL International chess rules, including draw according to the 3-move-rule and draw to the 50-move-rule. Should you be in need of help in a difficult game situation MYCHESS will come up with a move suggestion.

MYCHESS also plays games automatically, thus acting as a teacher to anyone not yet familiar with the game of chess. MYCHESS is also able to solve difficult chess problems as well as mate-in-7. If you have a mate-situation the computer will let you know whether there is a solution; if you are not able to find it, you can request the answer from the computer.

MYCHESS also incorporates a variety of classical chess games. These are played automatically by the SAVANT and the ROBOT ADVERSARY. Thus a chance is given to any chess player to better understand the game of chess and its strategies.

## NOVAG™ SAVANT with 24K MYCHESS PROGRAMME

This elegant, streamlined chess computer incorporates a large LCD chess board (10 × 11.25 cm) with SENSOR-TOUCH TECHNIQUE® specially designed for NOVAG™ in the United States.

You make your move by gently pressing the unique LCD symbol of the chess pieces from square to square. No more setting up of chess pieces and entering of coordinates! This new technique makes it simpler for you to play against the computer and finally enables you to fully concentrate on your game. Mistakes such as entering wrong coordinates, moving the wrong piece and so on are finally eliminated.

Apart from acoustic signals — which you can switch off — two rows of symbols at the top and bottom of the LCD board display offer visual indications such as: white/black to move, computer is thinking, capturing a piece, capturing en passant, stalemate/draw, check, checkmate, etc.

The SAVANT also makes it possible for you to take back each and every move during any game (*Trace Backward Key*). You then have the choice to go back to your original game position move-by-move (*Trace Forward Key*) or else stop at any move and then continue from there with a different strategy. The SAVANT also plays automatically for anyone wishing to learn the game. Furthermore, a game that has been interrupted can be stored for up to 3 months in the C-MOS memory. Adaptor is included.

*The following accessories can be connected to the SAVANT: NOVAG™ CHESS PRINTER and NOVAG™ QUARTZ CHESS CLOCK. These are available separately.*

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**NOVAG™ ROBOT ADVERSARY with 24K MYCHESS PROGRAMME**

This elegant ROBOT ADVERSARY incorporates an extremely powerful programme with revolutionary yet perfected technology. As you execute your move from square to square it is registered by the built-in SENSOR TECHNIQUE. The ADVERSARY's robot arm automatically makes its countermove.

ROBOT ADVERSARY not only plays games against itself automatically but also classical chess games, which are included in the programme. The robot arm moves both white and black pieces, removes captured pieces to the designated places on the side of the chess board and even sets the pieces up in the basic positions ready for a new game.

The clearly set-out controls are elegantly concealed behind the front panel. Adapter is included.

*The following accessories can be connected to the ROBOT ADVERSARY: NOVAG™ CHESS PRINTER and NOVAG™ QUARTZ CHESS CLOCK. These are available separately.*

**NOVAG™ MICRO CHESS WITH SENSOR TECHNIQUE**

Only the latest developments in the field of Micro-Processors have made this Mini Chess Computer possible.

Your move is automatically registered when you move your chess piece. The easy to operate computer move is shown by the 2 × 8 LED lamps which are positioned vertically and horizontally along the chess board. Easy to operate — clearly arranged — instructions easily followed. The 2 9V batteries run 12-15 hours\* (not included). There is a battery-low indicator and batteries can be exchanged without forfeiting the game in progress.

Should you wish to interrupt your game at any time, the memory of the NOVAG™ MICRO CHESS will store the game for approx. 1 week\* thus enabling you to continue your game during this period of time.

The strong 4K programme was written in cooperation with DAVID KITTINGER and plays according to international chess rules. This Mini Chess Computer has amazing analytical depth and even solves chess problems including mate-in-two.

An adapter as well as a travel bag (with room for 2 spare batteries) for the NOVAG™ MICRO CHESS are available separately.

*\* performance of 2 fully loaded 9V alkaline batteries.*

**NOVAG™ SUPER SENSOR IV**  
a handy, portable chess computer with SENSOR TECHNOLOGY

Your move is automatically registered as you move your chess piece. The computer move is shown by the 2 × 8 LED lamps which are positioned vertically and horizontally along the chess board. Easy to operate — clearly arranged — instructions easily followed. The computer comes equipped with an adaptor/recharger, but can also operate on alkaline or ni-cad batteries (not included). Furthermore the NOVAG™ SUPER SENSOR IV is designed on a module-basis so the existing programme can in future be extended or exchanged.

DAVID KITTINGER has written a new and powerful 8K programme for NOVAG™, which has competed brilliantly against computers of equal or bigger ROM capacities.

The NOVAG™ SUPER SENSOR IV plays according to international chess rules and solves complex chess as well as mate problems with ease.

*The following accessories can be connected to the SUPER SENSOR IV: NOVAG™ CHESS PRINTER and NOVAG™ QUARTZ CHESS CLOCK. These are available separately.*

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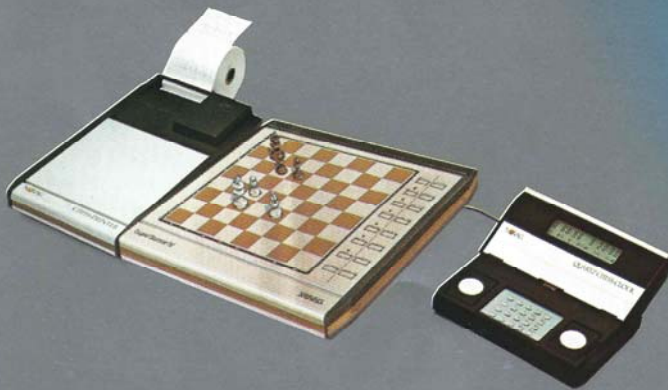
NOVAG™ CHESS PRINTER and  
NOVAG™ QUARTZ CHESS CLOCK  
connected to the NOVAG™ SAVANT



NOVAG™ PRINTER and NOVAG™  
QUARTZ CHESS CLOCK connected to  
the NOVAG™ ROBOT ADVERSARY



NOVAG™ CHESS PRINTER and  
NOVAG™ QUARTZ CHESS CLOCK  
connected to  
the NOVAG™ SUPER SENSOR IV



NOVAG™ CHESS PRINTER has a  
compact, durable socket, which connects  
directly to the individual chess  
computers.

The NOVAG™ QUARTZ CHESS  
CLOCK is easily plugged into the  
various chess computers by means of a  
short, thin cable, which comes with the  
clock. The connectors on all units are  
clearly marked.

NOVAG™ CHESS PRINTER and  
NOVAG™ QUARTZ CHESS CLOCK  
accessories are available separately.

# Novag Presents the 1981 Chess Computers

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**NOVAG™ SAVANT** Art. No. 813  
with extremely powerful 24K MYCHESS Programme

- First of its kind: built-in LCD Chess Board, large, clear display and SENSOR TOUCH TECHNOLOGY — no setting up chess pieces
- no tedious entering of coordinates
- wide variety of openings, random selector can be switched off
- simple in prog
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**NOVAG™ CHESS PRINTER** Art. No. 816  
Accessory to NOVAG's SAVANT, ROBOT ADVERSARY or SUPER SENSOR IV

- easily connects to above chess computers
- automatic print-out of game showing: symbols for piece moved, piece captured, check, checkmate, etc., as well as complete board positions
- a vital aid for all chess players

**NOVAG™**

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one-key take-back of all moves of game  
ess  
memory stores game up to 3 months  
of classical chess games  
changeable modules  
detailed description refer to supplement

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# THE CHESS COMPU

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the 1981 Chess Computers**

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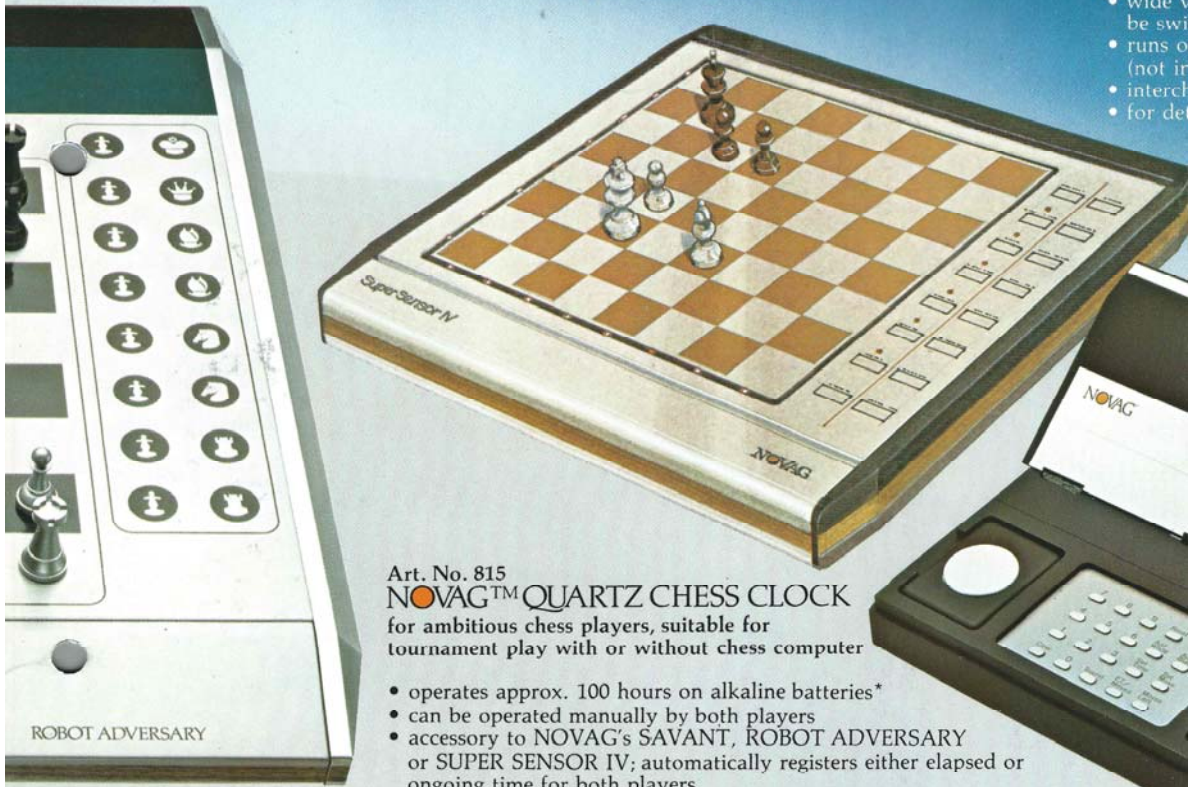
NOVAG™ ROBOT ADVERSARY Art. No. 814  
 Newly powerful 24K MYCHESS programme

Robot with SENSOR TECHNOLOGY  
 can move by simply picking up a piece  
 and moving it.  
 The robot arm executes the computer  
 move automatically; also removes captured

- wide variety of openings, random selector can be switched off
- selection of classical chess games, which the ROBOT ADVERSARY can play automatically
- interchangeable modules
- for detailed description refer to supplement

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Art. No. 815  
 NOVAG™ QUARTZ CHESS CLOCK  
 for ambitious chess players, suitable for  
 tournament play with or without chess computer

- operates approx. 100 hours on alkaline batteries\*
- can be operated manually by both players
- accessory to NOVAG's SAVANT, ROBOT ADVERSARY or SUPER SENSOR IV; automatically registers either elapsed or ongoing time for both players
- handicaps in the form of additional or less time can be set individually
- programmed according to FIDE rules \* performance of fully loaded alkaline batteries (not included)

TER INNOVATORS

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**NOVAG™ SUPER SENSOR IV** Art. No. 812  
pocket portable Chess Computer

SENSOR TECHNOLOGY transmits  
ies  
SK programme by DAVID KITTINGER  
ariety of openings, random selector can  
ched off  
adaptor (included) or batteries  
cluded)  
angeable modules  
ailed description refer to supplement.

Travel Bag for  
**NOVAG™ MICRO CHESS**  
elegant and practical

- room for 2 spare batteries
- adjustable shoulder strap

Art. No. 8111

**NOVAG™ MICRO CHESS** Art. No. 811  
the world's first Mini Chess Computer with  
SENSOR TECHNOLOGY

- pocket-sized, operates approx. 12-15 hours\*  
on 2 9V batteries
- memory stores game for approx. 1 week\*
- strong 4K programme written in  
cooperation with DAVID KITTINGER  
solves mate-in-two
- batteries exchangeable  
during game
- adaptor and travel bag  
available separately
- for detailed description  
refer to supplement.

\* performance of 2  
fully loaded 9V alkaline  
batteries (not included)



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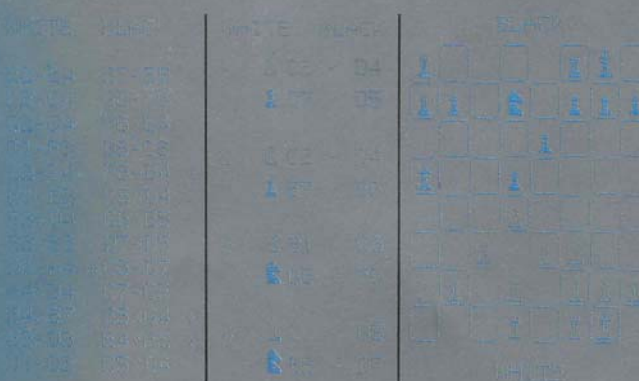
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The NOVAG™ CHESS PRINTER is an important aid for every chess player as a record of his games. The tedious task of having to write down moves is eliminated.

The NOVAG™ CHESS PRINTER is activated entirely by the individual chess computer and controlled by just a few keys. Once activated it prints out the game automatically and simultaneously, including the international notations for chess piece captured, check, checkmate etc.

You have the option of two print listings. Firstly the short version whereby only the coordinates and the international notations are printed out. The second version additionally shows an easy-to-identify symbol of the piece moved. Furthermore the complete board position can be printed out at any time during a game (see examples).



The NOVAG™ QUARTZ CHESS CLOCK is a multi-purpose Quartz Chess Clock designed for the first time to play with or without a chess computer, with a precision of plus/minus 1/100 second. The clock runs up to 100 hours on one set of batteries. Programmed according to DE rules.

It can be used for conventional chess games between two players and of course for tournament play. Times for both players can be set individually, meaning that handicaps in the form of more or less time can be given.

When connected by cable (included) to any of the chess computers pictured on the opposite page, the NOVAG™ QUARTZ CHESS CLOCK registers both times automatically, now at last the game against the computer is a fair one, since the player is also timed. Previously only the chess computer played against time, whereas the player could make his move at his leisure putting him at a tremendous advantage.



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**NOVAG™** since 1978 one of the leading suppliers of chess computers. Setting the trend for new worldwide standards with their 3rd CHESS COMPUTER GENERATION.

**NOVAG™** with California Research and Development Center in Los Angeles commissioned a team of 15 brilliant scientists, engineers and computer experts to develop an entirely new generation of chess computers including an exciting range of accessories.

**NOVAG™** secured world-renowned DAVID KITTINGER to head the team of programmers. He personally wrote the 24K MYCHESS programme for NOVAG™ SAVANT and NOVAG™ ROBOT ADVERSARY and furthermore an entirely new 8K programme for the NOVAG™ SUPER SENSOR IV.

**NOVAG™** programmes are designed to be a tutor to both beginners and intermediate chess players as well as a formidable challenge to masterful players.

**NOVAG™** devises all new chess computers with interchangeable modules (except MICRO CHESS). This means that the units are never outdated as they can always be brought up to the latest level of chess computer technology by simply inserting a new programme module. Classical chess game modules offer opportunities for in-depth study and analysis.

**NOVAG™** supercedes all present developments in the field of chess computer technology with its 3rd GENERATION CHESS COMPUTERS.

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