



# Ondra (computer)

**Ondra** SPO 186 is a Czechoslovak eight-bit computer developed in 1985 at Tesla Liberec by Ing. Eduard Smutný , Ing. Tomáš Smutný and Ing. Jan Mercl for use in schools and homes. The name is derived from the first name of Ing. E. Smutný's son , who suffered from cerebral palsy and working with the keyboard helped him train his impaired finger motor skills.

Production of the Ondra was supposedly to be taken over by another company after Tesla, but this never happened, so over 2,000 units were produced (according to production numbers) with the intention of around 4,000 units.

The computer was supplied with Tesla ROM memory and there was also an alternative ROM memory, the author of which was Ing. Vít Libovický.



Ondra's computer



Ondra computer box



Open computer  
Ondra

## Technical parameters

- Microprocessor : U880D (equivalent to Z80 manufactured in the GDR ) at 2 MHz
- Memory: max. 80 KiB
- Memory distribution: RAM 54 KiB, EPROM 4 KiB, 10 KiB videoRAM
- Graphics: 320×240 pixels (with ViLi ROM up to 320x255 pixels), 2 colors
- Sound: 7 different tones (does not form a scale)
- Programming language: none built-in, BASIC was recorded from cassette, then assembler, educational Karel
- Connectable peripherals: black and white TV receiver, cassette recorder, Centronics printer, joystick
- Power supply: 9V/0.8A
- Number of IOs : 39, produced by the then Czechoslovakia and the former CMEA states
- Dimensions: 290×130×35 mm

## External links

- Images, sounds or videos about **Ondra** on Wikimedia Commons
- Interview with Ing. E. Smutný from Amateur Radio 1986 (<http://bruxy.regnet.cz/web/8bit/CZ/rozhovor-s-ing.-eduardem-smutnym/>)
- Ondra on the Old computers museum website (<https://web.archive.org/web/20101121033759/http://www.old-computers.com/museum/computer.asp?st=1&c=612>)
- <https://www.youtube.com/watch?v=4tYbAvBpzMo>
- A page dedicated to the computer Ondra (<http://www.ondraspo186.8u.cz>)