

# Victor 70C

From sigrok

The **Victor 70C** is a 4000 counts, CAT II handheld digital multimeter with USB connectivity.

It is also sold as the EZA EZ-735 (<http://github.com/mvneves/victor70c#victor70c-software-for-linux>).

See Victor 70C/Info for more details (such as **lsusb -vvv** output) about the device.

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## Hardware

- Fortune Semiconductor FS9922-DMM4 ([http://www.ic-fortune.com/upload/Download/FS9922-DMM4-DS-11\\_EN.pdf](http://www.ic-fortune.com/upload/Download/FS9922-DMM4-DS-11_EN.pdf)) multimeter chip
- NXP HEF4066BT (<http://datasheet.octopart.com/HEF4066BT-Philips-datasheet-87533.pdf>) quadruple bilateral switches
- Microchip TC7660E (<http://datasheet.octopart.com/TC7660EOA-Microchip-datasheet-1009.pdf>) charge pump DC-to-DC voltage converter
- Texas Instruments 27L2C (<http://datasheet.octopart.com/TLC27L2CP-Texas-Instruments-datasheet-151061.pdf>) precision dual op-amp
- Unknown USB interface chip (HID)

Note: the USB/HID chip is *in the multimeter* (not in the USB cable/connector) for this device. The device is connected to the PC using a standard USB cable (without any internal logic/chip).

## Photos



Device, front



PCB, front



PCB, bottom



DMM/LCD chip



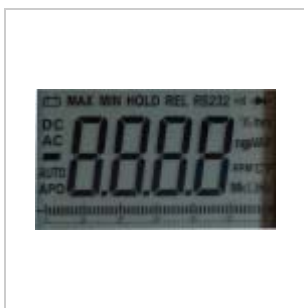
NXP HEF4066BT




Microchip TC7660E



TI 27L2C



LCD

Victor 70C	
	
<b>Status</b>	supported
<b>Source code</b>	victor-dmm ( <a href="http://sigrok.org/gitweb/?p=libsigrok.git;a=tree;f=src/hardware/victor-dmm">http://sigrok.org/gitweb/?p=libsigrok.git;a=tree;f=src/hardware/victor-dmm</a> )
<b>Counts</b>	4000
<b>IEC 61010-1</b>	CAT II
<b>Connectivity</b>	USB (standard cable)
<b>Measurements</b>	voltage, current, resistance, continuity, diode, capacitance, frequency, temperature
<b>Features</b>	max/min, data hold, relative, backlight
<b>Website</b>	china-victor.com ( <a href="http://www.china-victor.com/english/en/product_data.aspx?ClassID=168&amp;ID=121">http://www.china-victor.com/english/en/product_data.aspx?ClassID=168&amp;ID=121</a> )

## Protocol

See Victor protocol.

## Resources

- RoastLogger: Input Devices ([http://homepage.ntlworld.com/green\\_bean/coffee/roastlogger/dmmdetails.html](http://homepage.ntlworld.com/green_bean/coffee/roastlogger/dmmdetails.html)) (Victor Victor 86B/86C support)
- Dave Ansell Science Communication: Victor 86C multimeter USB encoding for linux (<http://www.daveansell.co.uk/?q=node/44>) (PHP)
- victor86b-usb-interface: USB interface for Victor 86B Digital Multimeter using HIDAPI (<https://code.google.com/p/victor86b-usb-interface/>) (see also here (<http://www.codeproject.com/Articles/310547/USB-Digital-Multimeter-Driver-using-HIDAPI>))
- Sparkfun: Victor 70C (<https://www.sparkfun.com/products/10892>) (manual (<http://dlnmh9ip6v2uc.cloudfront.net/datasheets/Tools/601e-070c-000a.pdf>), software ([http://dlnmh9ip6v2uc.cloudfront.net/datasheets/Tools/setup\\_70c\\_multi.rar](http://dlnmh9ip6v2uc.cloudfront.net/datasheets/Tools/setup_70c_multi.rar)))
- Github: victor70c (<https://github.com/mvneves/victor70c>) (HIDAPI)
- Random review / photos (<http://translate.google.com/translate?hl=de&sl=zh-CN&tl=en&u=http%3A%2F%2Fmytes.blog.163.com%2Fblog%2Fstatic%2F24568310201163010029970%2F>)

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