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HERO9 Black includes open source software component packages as listed in the Table below. Please refer to the full HERO9 Black Open Source Software Notice document for more details on the components, their respective licenses and terms and conditions of their use.

For information about HERO8 Black and previous camera models, please refer to the article [HERE](#) and [HERE](#).

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HERO9 Black Open Source Package List

| PACKAGE NAME | PACKAGE VERSION | LICENSE | Website |
|----------------------------|-----------------|----------------------------|---|
| avahi-daemon | 0.6.31 | GPLv2+ & LGPLv2.1+ | http://avahi.org |
| base-files | 3.0.14 | GPLv2 | http://www.debian.org |
| base-passwd | 3.5.29 | GPLv2+ | ftp://ftp.debian.org/debian/pool/main/b/base-passwd/ |
| busybox | 1.23.1 | GPLv2 & bzip2 | http://www.busybox.net |
| busybox-syslog | 1.23.1 | GPLv2 & bzip2 | http://www.busybox.net |
| busybox-udhcpc | 1.23.1 | GPLv2 & bzip2 | http://www.busybox.net |
| connman | 1.28 | GPLv2 | http://connman.net/ |
| connman-client | 1.28 | GPLv2 | http://connman.net/ |
| connman-tools | 1.28 | GPLv2 | http://connman.net/ |
| dbus-1 | 1.8.10 | AFL-2 GPLv2+ | http://dbus.freedesktop.org |
| e2fsprogs | 1.42.9 | GPLv2 & LGPLv2 & BSD & MIT | http://e2fsprogs.sourceforge.net/ |
| e2fsprogs-badblocks | 1.42.9 | GPLv2 | http://e2fsprogs.sourceforge.net/ |
| e2fsprogs-e2fsck | 1.42.9 | GPLv2 | http://e2fsprogs.sourceforge.net/ |
| e2fsprogs-mke2fs | 1.42.9 | GPLv2 | http://e2fsprogs.sourceforge.net/ |
| iperf | 2.0.5 | BSD-2-Clause | http://software.es.net/iperf/ |

| | | | |
|----------------------------------|------------------------------|----------------------------|---|
| iperf3 | 3.0.10+gitAUTOINC+de420cc741 | BSD | http://software.es.net/iperf/ |
| iptables | 1.4.21 | GPLv2+ | http://www.netfilter.org/projects/iptables/ |
| kmod | 19+gitAUTOINC+fd56638aed | GPL-2.0+ & LGPL-2.1+ | http://packages.profusion.mobi/kmod/ |
| libacl1 | 2.2.52 | LGPLv2.1+ | http://savannah.nongnu.org/projects/acl/ |
| libattr1 | 2.4.47 | LGPLv2.1+ | http://savannah.nongnu.org/projects/attr/ |
| libavahi-common3 | 0.6.31 | GPLv2+ & LGPLv2.1+ | http://avahi.org |
| libavahi-core7 | 0.6.31 | GPLv2+ & LGPLv2.1+ | http://avahi.org |
| libblkid1 | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | https://github.com/karelzak/util-linux/tree/master/libblkid |
| libboost-filesystem1.57.0 | 1.57.0 | BSL-1.0 & MIT & Python-2.0 | http://www.boost.org/ |
| libboost-system1.57.0 | 1.57.0 | BSL-1.0 & MIT & Python-2.0 | http://www.boost.org/ |
| libboost-thread1.57.0 | 1.57.0 | BSL-1.0 & MIT & Python-2.0 | http://www.boost.org/ |
| libc6 | 2.21 | GPLv2 & LGPLv2.1 | https://www.gnu.org/software/libc/ |
| libc6-dev | 2.21 | GPLv2 & LGPLv2.1 | https://www.gnu.org/software/libc/ |
| libc6-extra-nss | 2.21 | GPLv2 & LGPLv2.1 | https://www.gnu.org/software/libc/ |
| libc6-thread-db | 2.21 | GPLv2 & LGPLv2.1 | https://www.gnu.org/software/libc/ |
| libcap2 | 2.24 | BSD GPLv2 | http://freecode.com/projects/libcap-ng |
| libcidn1 | 2.21 | GPLv2 & LGPLv2.1 | |
| libcom-err2 | 1.42.9 | GPLv2 & LGPLv2 & BSD & MIT | |
| libcrypto1.0.0 | 1.0.2a | openssl | http://www.openssl.org/ |
| libdaemon0 | 0.14 | LGPLv2.1+ | http://0pointer.de/lennart/projects/libdaemon/ |
| libdbus-1-3 | 1.8.10 | AFL-2 GPLv2+ | http://dbus.freedesktop.org |
| libe2p2 | 1.42.9 | GPLv2 & LGPLv2 & BSD & MIT | http://e2fsprogs.sourceforge.net/ |

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|--------------------------|--------------------------|----------------------------|---|
| libexpat1 | 2.1.0 | MIT | http://expat.sourceforge.net/ |
| libext2fs2 | 1.42.9 | GPLv2 & LGPLv2 & BSD & MIT | http://e2fsprogs.sourceforge.net/ |
| libffi6 | 3.2.1 | MIT | https://sourceware.org/libffi/ |
| libgcc1 | 4.9.2 | GPL-3.0-with-GCC-exception | https://gcc.gnu.org/ |
| libgcrypt | 1.6.2 | GPLv2+ & LGPLv2.1+ | http://directory.fsf.org/project/libgcrypt/ |
| libglib-2.0-0 | 2.42.1 | LGPLv2+ & BSD & PD | http://ftp.gnome.org/pub/gnome/sources/glib/ |
| libglog0 | 0.3.3 | BSD | https://code.google.com/p/google-glog/ |
| libgmp10 | 6.0.0 | GPLv2 LGPLv3 | http://gmplib.org/ |
| libgnutls28 | 3.3.12 | LGPLv2.1+ | http://www.gnu.org/software/gnutls/ |
| libgpg-error0 | 1.18 | GPLv2+ & LGPLv2.1+ | http://www.gnupg.org/related_software/libgpg-error/ |
| libkmod2 | 19+gitAUTOINC+fd56638aed | LGPL-2.1+ | http://packages.profusion.mobi/kmod/ |
| liblzma5 | 5.2.0 | PD | https://tukaani.org/xz/ |
| libmount1 | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | |
| libnl-3-200 | 3.2.25 | LGPLv2.1 | http://www.infradead.org/~tgr/libnl/ |
| libnl-3-cli | 3.2.25 | LGPLv2.1 | http://www.infradead.org/~tgr/libnl/ |
| libnl-3-genl | 3.2.25 | LGPLv2.1 | http://www.infradead.org/~tgr/libnl/ |
| libnl-nf-3-200 | 3.2.25 | LGPLv2.1 | http://www.infradead.org/~tgr/libnl/ |
| libnl-route-3-200 | 3.2.25 | LGPLv2.1 | http://www.infradead.org/~tgr/libnl/ |
| libnss-mdns | 0.1 | LGPLv2.1+ | https://archive.mozilla.org/pub/security/nss/releases/ |
| libreadline6 | 6.3 | GPLv3+ | |
| libss2 | 1.42.9 | GPLv2 & LGPLv2 & BSD & MIT | |
| libssl1.0.0 | 1.0.2a | openssl | http://www.openssl.org/ |

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|-------------------------------|----------------------------------|----------------------------|---|
| libstdc++6 | 4.9.2 | GPL-3.0-with-GCC-exception | https://gcc.gnu.org/ |
| libtinfo5 | 5.9 | MIT | |
| libunwind | 1.1 | MIT | |
| libuuid1 | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | |
| libx11-6 | 1.6.2 | MIT & MIT-style & BSD | |
| libxau6 | 1.0.8 | MIT-style | |
| libxcb-xkb1 | 1.11 | MIT | |
| libxcb1 | 1.11 | MIT | |
| libxdmcp6 | 1.1.1 | MIT-style | |
| libxkbcommon | 0.5.0 | MIT & MIT-style | |
| libz1 | 1.2.8 | Zlib | http://zlib.net/ |
| linux-libc-headers-dev | 3.19 | GPLv2 | |
| linux | linux-4.4.15 | GPLv2 | http://www.kernel.org |
| mtpserver | 1.0.0 | Apache-1.0 | |
| ncurses-terminfo-base | 5.9 | MIT | http://invisible-mirror.net/archives/ncurses/ |
| netbase | 5.3 | GPLv2 | |
| nettle | 2.7.1 | LGPLv2.1 & GPLv2 | https://ftp.gnu.org/gnu/nettle/ |
| openssl | 1.0.2a | openssl | http://www.openssl.org/ |
| openssl-conf | 1.0.2a | openssl | http://www.openssl.org/ |
| os-release | 1 | MIT | |
| packagegroup-core-boot | 1 | MIT | |
| run-postinsts | 1 | MIT | |
| shadow | 4.2.1 | BSD Artistic-1.0 | http://pkg-shadow.alioth.debian.org |
| shadow-base | 4.2.1 | BSD Artistic-1.0 | http://pkg-shadow.alioth.debian.org |
| shadow-securetty | 4.2.1 | MIT | http://pkg-shadow.alioth.debian.org |
| strace | 4.9 | BSD | http://strace.sourceforge.net |
| systemd | 219-stable+gitAUTOINC+85a6fabdd3 | GPLv2 & LGPLv2.1 & MIT | http://www.freedesktop.org/wiki/Software/systemd |

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|----------------------------------|----------------------------------|--|---|
| systemd-compat-units | 1 | MIT | http://www.freedesktop.org/wiki/Software/systemd |
| systemd-serialgetty | 1 | GPLv2+ | http://www.freedesktop.org/wiki/Software/systemd |
| udev | 219-stable+gitAUTOINC+85a6fabdd3 | GPLv2 & LGPLv2.1 & MIT | https://www.freedesktop.org/software |
| udev-hwdb | 219-stable+gitAUTOINC+85a6fabdd3 | GPLv2 & LGPLv2.1 & MIT | https://www.freedesktop.org/software |
| update-alternatives-opkg | 0.1.8+gitAUTOINC+53274f0875 | GPLv2+ | https://github.com/shr-project/opkg/blob/master/utis/update-alternatives.in |
| update-rc.d | 0.7 | GPLv2+ | |
| util-linux-agetty | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | https://www.kernel.org/pub/linux/utis/util-linux/ |
| util-linux-fsck | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | https://www.kernel.org/pub/linux/utis/util-linux/ |
| util-linux-mount | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | https://www.kernel.org/pub/linux/utis/util-linux/ |
| util-linux-sulogin | 2.25.2 | GPLv2+ & LGPLv2.1+ & BSD | https://www.kernel.org/pub/linux/utis/util-linux/ |
| volatile-binds | 1 | MIT | |
| wireless-tools | 30.pre9 | GPLv2 & (LGPLv2.1 MPL-1.1 BSD) | https://hewlettpackard.github.io/wireless-tools/Tools.html |
| wpa-supPLICant | 2.3 | BSD | https://w1.fi/wpa_supPLICant/ |
| wpa-supPLICant-cli | 2.3 | BSD | https://w1.fi/wpa_supPLICant/ |
| wpa-supPLICant-passphrase | 2.3 | BSD | https://w1.fi/wpa_supPLICant/ |
| android-tools | 5.1.1.r37 | Apache-2.0 & GPL-2.0 & BSD-2-Clause & BSD-3-Clause | |
| android-tools-conf | 1 | MIT | |
| gdbserver | 7.8.1 | GPLv2 & GPLv3 & LGPLv2 & LGPLv3 | |
| bash | 4.3 | GPLv3+ | |

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|-------------------------|-----------------------------|--|
| libbsd0 | 0.7.0 | BSD-4-Clause & MIT |
| libgl-mesa | 10.4.4 | MIT |
| libglapi0 | 10.4.4 | MIT |
| libdrm2 | 2.4.59 | MIT |
| libgomp-dev | 4.9.2 | GPLv3 |
| libgomp1 | 4.9.2 | GPLv3 |
| libpcre1 | 8.36 | BSD |
| libtirpc1 | 0.2.5 | BSD |
| libwrap0 | 7.6 | BSD |
| nfs-utils | 1.3.1 | MIT & GPLv2+ & BSD |
| nfs-utils-client | 1.3.1 | MIT & GPLv2+ & BSD |
| qtbase | 5.4.2+gitAUTOINC+2cb17c1fb9 | GFDL-1.3 & BSD & (LGPL-2.1 & Digia-Qt-LGPL-Exception-1.1 LGPL-3.0) |
| rpcbind | 0.2.2 | BSD |
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Application Layer Packages

| PACKAGE NAME | PACKAGE VERSION | LICENSE | Website |
|--------------------|-----------------|------------------------|---|
| boost | 1.5.0 | Boost SW License 1.0 | https://www.boost.org/ |
| c-ares | 1.16.1 | MIT License | https://c-ares.haxx.se/ |
| cgic | 206 | CGIC License | http://www.boutell.com/cgic/ |
| cghtml | 1.69 | | |
| cityhash | 1.1.1 | MIT License | http://code.google.com/p/cityhash/ |
| civetweb | 1.11 | MIT License | http://civetweb.github.io/civetweb/ |
| cJSON | R58 | MIT License | http://sourceforge.net/projects/cjson/ |
| curl | 7.37.0 | MIT/X derivate license | http://curl.haxx.se/ |
| dhcp-client | 4.3.1 | ISC | |
| dng_sdk | | Proprietary Free | https://www.adobe.com/support/downloads/dng/dng_sdk.html |
| gmock | 1.7.0 | BSD-3c | https://github.com/google/googlemock |
| gtest | 1.7.0 | BSD-3c | http://code.google.com/p/googletest/ |

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|------------------------|---------------|------------------|---|
| iperf | 2.0.5 | BSD License | https://github.com/esnet/iperf |
| iniparser | 3.1 | MIT | https://github.com/ndevilla/iniparser |
| libav | 0.8.4 | LGPLv2.1 | https://github.com/libav/libav |
| libexif | 0.6.21 | LGPLv2.1 | http://libexif.sourceforge.net/ |
| libnl | 3.2.25 | LGPLv2.1 | https://www.infradead.org/~tgr/libnl/ |
| libquicktime | 1.2.4 | LGPLv2.1 | http://libquicktime.sourceforge.net/ |
| librtmp | 1.1.1 | GPLv2.1 | https://github.com/G-P-S/librtmp |
| libzip | 0.11.2 | BSD Like | https://libzip.org |
| node | 0.8.18 | BSD Like | |
| openssl | 1.0.1 | Open SSL License | https://www.openssl.org/source/ |
| protobuf | 3.0.0-beta-2 | BSD-3c | https://developers.google.com/protocol-buffers |
| Protobuf-c | 1.2.1 | BSD-2c | https://github.com/protobuf-c/protobuf-c |
| qrcodegen | | MIT | https://www.nayuki.io/page/qr-code-generator-library |
| rapidJSON | 1.1.0 | MIT | https://rapidjson.org/ |
| ruby | 1.9.1-1.9.3.0 | BSD-2c | |
| sqlite-autoconf | 30801000 | Public Domain | http://www.sqlite.org/download.html |
| tcpdump | 4.7.3 | BSD-3c | http://www.tcpdump.org/ |
| Wireless Tools | 3.0.0 | GPLv2 | |
| wt | 3.3..3-p1 | GPLv2 | https://github.com/emweb/wt |
| zlib | 1.2.11 | zlib license | https://zlib.net |

Other Packages

| PACKAGE NAME | PACKAGE VERSION | LICENSE | Website |
|---|-----------------|------------|---|
| Stubby (Boot Loader) | | GPL-v2+ | |
| Openembedded (Tools and Environment) | 1.8 (fido) | GPLv2, MIT | https://github.com/openembedded/openembedded-core |

Source Code Packages available for download

| Source Code Package | Location |
|--|---|
| HERO9 Black Edition Linux Package | https://software.gopro.com/help/h9-linux-4.4.15.bz2 |
| HERO9 Black Edition SDK Packages | https://software.gopro.com/help/h9-sdk-pkgs.bz2 |
| HERO9 Black Edition Application Packages | https://software.gopro.com/help/h9-app-pkgs.bz2 |
| HERO9 Black Edition Tools and Build Environment | https://software.gopro.com/help/h9-sdk-tools.bz2 |
| HERO9 Black Edition Bootloader | https://software.gopro.com/help/h9-bootloader-stubby.bz2 |

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Original SSLeay License

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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