Guide from this link but all info is below in this doc too

https://gist.github.com/afriza/879fed4ede539a5a6501e0f046f71463

Download Desktop Video (driver) & Desktop Video SDK from https://www.blackmagicdesign.com/support/family/capture-and-playback

Blackmagic\_Desktop\_Video\_Linux\_12.2.tar.gz

Blackmagic\_DeckLink\_SDK\_12.2.zip

move zip and tar to home

sudo apt-get update -y

sudo apt-get install -y dkms

tar -xf Blackmagic\_Desktop\_Video\_Linux\_12.2.tar.gz

cd Blackmagic\_Desktop\_Video\_Linux\_12.2/deb/x86\_64/

sudo dpkg -i desktopvideo\_12.2a12\_amd64.deb

sudo apt --fix-broken install (only if deb failed due to missing dkms)

sudo apt-get install -f

BlackmagicFirmwareUpdater status

BlackmagicFirmwareUpdater update 0

sudo reboot

Unzip Desktop Video SDK

sudo apt install unzip

unzip Blackmagic\_DeckLink\_SDK\_12.2.zip

mkdir -p ~/ffmpeg\_sources ~/bin

cp -r Blackmagic\ DeckLink\ SDK\ \*/Linux/ ~/ffmpeg\_sources/BMD\_SDK

this makes /home/matt/ffmpeg\_sources/BMD\_SDK

sudo apt update

sudo apt install git

sudo apt-get update -y

sudo apt-get install doxygen

sudo apt-get install automake

sudo apt-get update -qq && sudo apt-get -y install \

autoconf \

automake \

build-essential \

cmake \

git-core \

libass-dev \

libfreetype6-dev \

libgnutls28-dev \

libmp3lame-dev \

libsdl2-dev \

libxcb1-dev \

libxcb-shm0-dev \

libxcb-xfixes0-dev \

libx264-dev \

libx265-dev \

libnuma-dev \

libvpx-dev \

libfdk-aac-dev \

libopus-dev \

libtool \

libvorbis-dev \

pkg-config \

texinfo \

wget \

zlib1g-dev

sudo apt-get update -y

sudo apt-get -y install \

nasm yasm

sudo apt-get install -y libsoxr-dev

sudo apt-get install libssl-dev

------copy all and paste----

cd ~/ffmpeg\_sources

git clone --depth 1 https://github.com/Haivision/srt.git

mkdir srt/build

cd srt/build

cmake -DCMAKE\_INSTALL\_PREFIX="$HOME/ffmpeg\_build" -DENABLE\_C\_DEPS=ON -DENABLE\_SHARED=OFF -DENABLE\_STATIC=ON ..

make

make install

---

sudo apt-get install -y libtwolame-dev

------copy all and paste----

cd ~/ffmpeg\_sources && \

git -C aom pull 2> /dev/null || git clone --depth 1 https://aomedia.googlesource.com/aom && \

mkdir -p aom\_build && \

cd aom\_build && \

PATH="$HOME/bin:$PATH" cmake -G "Unix Makefiles" -DCMAKE\_INSTALL\_PREFIX="$HOME/ffmpeg\_build" -DENABLE\_TESTS=OFF -DENABLE\_NASM=on ../aom && \

PATH="$HOME/bin:$PATH" make && \

make install

------copy all and paste----

cd ~/ffmpeg\_sources && \

git -C SVT-AV1 pull 2> /dev/null || git clone https://gitlab.com/AOMediaCodec/SVT-AV1.git && \

mkdir -p SVT-AV1/build && \

cd SVT-AV1/build && \

PATH="$HOME/bin:$PATH" cmake -G "Unix Makefiles" -DCMAKE\_INSTALL\_PREFIX="$HOME/ffmpeg\_build" -DCMAKE\_BUILD\_TYPE=Release -DBUILD\_DEC=OFF -DBUILD\_SHARED\_LIBS=OFF .. && \

PATH="$HOME/bin:$PATH" make && \

make install

sudo apt-get install python3-pip && \

pip3 install --user meson

sudo apt install meson

------copy all and paste----

cd ~/ffmpeg\_sources && \

git -C dav1d pull 2> /dev/null || git clone --depth 1 https://code.videolan.org/videolan/dav1d.git && \

mkdir -p dav1d/build && \

cd dav1d/build && \

meson setup -Denable\_tools=false -Denable\_tests=false --default-library=static .. --prefix "$HOME/ffmpeg\_build" --libdir="$HOME/ffmpeg\_build/lib" && \

ninja && \

ninja install

------copy all and paste----

-------- libklvanc-------

download, unzip and move to home- libklvanc-master.zip

<https://github.com/stoth68000/libklvanc>

new cmd window  
cd libklvanc-master

./autogen.sh --build

./configure --enable-shared=no

make

make docs

sudo make install

------- libklvanc ^-------

------copy all and paste----

cd ~/ffmpeg\_sources

wget <https://ffmpeg.org/releases/ffmpeg-4.4.tar.bz2>

tar -xvf ffmpeg-\*.tar.bz2

cd ffmpeg-\*/

PATH="$HOME/bin:$PATH" PKG\_CONFIG\_PATH="$HOME/ffmpeg\_build/lib/pkgconfig" ./configure \

--prefix="$HOME/ffmpeg\_build" \

--pkg-config-flags="--static" \

--extra-cflags="-I$HOME/ffmpeg\_build/include -I$HOME/ffmpeg\_sources/BMD\_SDK/include" \

--extra-ldflags="-L$HOME/ffmpeg\_build/lib" \

--extra-libs="-lpthread -lm" \

--bindir="$HOME/bin" \

--enable-debug \

--disable-shared \

--disable-doc \

--disable-ffplay \

--disable-sdl2 \

--enable-gpl \

--enable-libass \

--enable-libfdk-aac \

--enable-libfreetype \

--enable-libmp3lame \

--enable-libopus \

--enable-libsvtav1 \

--enable-libvorbis \

--enable-libvpx \

--enable-libx264 \

--enable-libx265 \

--enable-nonfree \

--enable-version3 \

--enable-runtime-cpudetect \

--enable-avfilter \

--enable-fontconfig \

--enable-libfribidi \

--enable-libsoxr \

--enable-libsrt \

--enable-libtwolame \

--enable-libvpx \

--enable-openssl \

--enable-zlib \

--enable-pic \

--enable-libklvanc\

--enable-decklink

------copy all and paste----

PATH="$HOME/bin:$PATH" make -j `nproc`

sudo cp ffmpeg ffprobe /usr/local/bin/