

About how to use Realsense D435i on F110 cars

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1 Keypoints

To use the Realsense D435i camera on F110 cars, we need to:

1. Recompile the Linux kernel
2. Install Realsense 2 SDK
3. Install ROS wrapper for Realsense

2 Details

1. Intel doesn't support realsense on Jetsons so we need patch some video driver in Linux kernel to let the camera function correctly. A guy at JetsonHacks wrote scripts for doing this and it's been tested to work well.

Follow the scripts from <https://github.com/jetsonhacks/buildLibrealsense2TX>.

Run `./buildPatchedKernel.sh` to recompile the kernel.

This script is written for L4T version up to 28.2.1. Make sure the battery is charged and the jetson clocks `.sh` is used.

2. We can use `./installLibrealsense.sh` to download and install the realsense SDK. The code will download SDK version 2.13.0 but for some cameras, a higher version is needed. We can simply change the version number in `./installLibrealsense.sh` to 2.30.0 to install a newer version.
3. Follow <https://github.com/IntelRealSense/realsense-ros> to perform installation. Start from Step 3.