iTOP-4412 开发板提供的内核默认使用的 500W 摄像头,如果大家使用迅为提供的 200W 摄像头,需要做如

下的修改:

在 Ubuntu 的终端里面进入到内核的源码目录,然后执行"make menuconfig"命令,如下图所示:

```
root@ubuntu:/home/broswer/iTop4412_Kerne1_3.0#
root@ubuntu:/home/broswer/iTop4412_Kerne1_3.0#
root@ubuntu:/home/broswer/iTop4412_Kerne1_3.0#
root@ubuntu:/home/broswer/iTop4412_Kerne1_3.0# make menuconfig
```

打开内核配置界面,然后选择"Device Drivers",如下图所示:

```
Linux/arm 3.0.15 Kernel Configuration
ow keys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys.
includes, \langle N \rangle excludes, \langle M \rangle modularizes features. Press \langle Esc \rangle \langle Esc \rangle to exit, \langle ? \rangle for Help,
rch. Legend: [*] built-in [ ] excluded <M> module < > module capable
                [*] Enable the block layer --->
                    System Type --->
                [ ] FIQ Mode Serial Debugger
                    Bus support --->
                    Kernel Features -
                    Boot options -
                    CPU Power Management --->
                    Floating point emulation
                    Userspace binary formats
                    Power management options
                [*] Networking support -
                    Device Drivers
                    File systems
                                     <Select>
                                                  < Exit >
                                                               < Help >
```

进入到"Device Drivers"界面然后选择"Multimedia support",如下图所示:

```
Device Drivers
vs navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkey
udes, <N> excludes, <M> modularizes features. Press <Esc> Esc> to exit, <?> for Help
Legend: [*] built-in [] excluded <M> module <> module capable
         -^ (<del>-</del>) —
              PTP clock support --->
          -*- GPIO Support --->
         < > Dallas's 1-wire support --->
         <*> Power supply class support --->
         < > Hardware Monitoring support --->
          < > Generic Thermal sysfs driver --->
          [*] Watchdog Timer Support --->
              Sonics Silicon Backplane --->
             Broadcom specific AMBA --->
          [*] Multifunction device drivers --->
          [*] Voltage and Current Regulator Support --->
          <*> Multimedia support --->
              Graphics support --->
         -v(+)-
                             <Select>
                                         < Exit > < Help >
进入到"Multimedia support"界面,然后选择"Video capture adapters",如下图所示:
                                   - Multimedia support
teys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys.
cludes, <N> excludes, <M> modularizes features. Press <Esc><Esc> to exit, <?> for Help,
 Legend: [*] built-in [] excluded <M> module <> module capable
          ·^ (-)-
                *** Multimedia core support ***
           [*]
                Media Controller API (EXPERIMENTAL)
                Video For Linux
           [*]
                  V4L2 sub-device userspace API (EXPERIMENTAL)
                DVB for Linux
                *** Multimedia drivers ***
           <*>
                Remote Controller adapters --->
                Load and attach frontend and tuner driver modules as needed
                Customize analog and hybrid tuner modules to build
                Customize TV tuners --->
                Select Videobuf2 allocator (CMA_PHYS) --->
          [*]
                Video capture adapters --
                Memory-to-memory multimedia devices --
          -v (+)-
                             <Select>
                                         < Exit >
                                                    < Help >
```

进入到"Video capture adapters"界面,修改如下的三个地方,如下图所示:

```
Video capture adapters
ow keys navigate the menu. <Enter> selects submenus --->. Highlighted letters are hotkeys.
 includes, \langle N \rangle excludes, \langle M \rangle modularizes features. Press \langle Esc \rangle \langle Esc \rangle to exit, \langle ? \rangle for Help, \langle / \rangle
rch. Legend: [*] built-in [] excluded <M> module <> module capable
                 ^ (-)
                 <*>
                        SoC camera support
                          imx074 support
                          mt9m001 support
                          mt9m111, mt9m112 and mt9m131 support
                          mt9t031 support
                          mt9t112 support
                          mt9d115 support
                 <*>
                        SR200PC20 supporting camera driver
                 (*>
                          SR200PC20 supporting camera driver P2
                 <>
                          SR200PC20 supporting camera driver P4W (NEW)
                        OmniVision OV5640 sensor support
                        S5K4ECGX Camera Sensor
                       mt9v022 support
                 v (+)
                                       <Select>
                                                    < Exit >
                                                                  < Help >
```

按照上图高亮的三个地方修改,然后保存并退出内核配置界面,然后执行"make"命令编译内核,生成的 zlmage 就支持迅为的 200W 摄像头了。