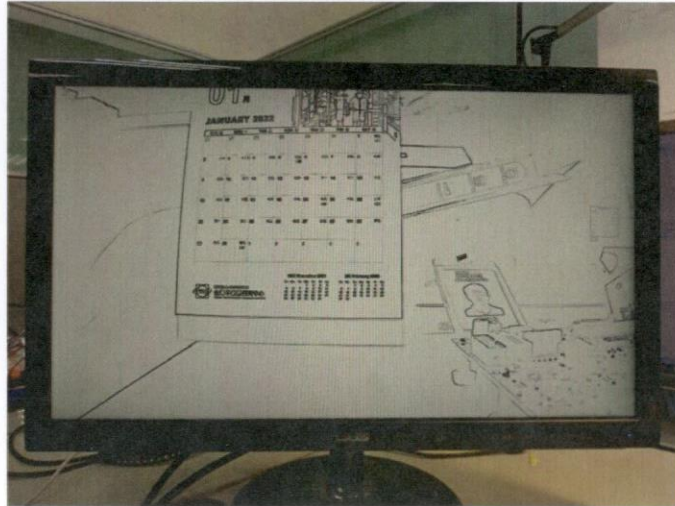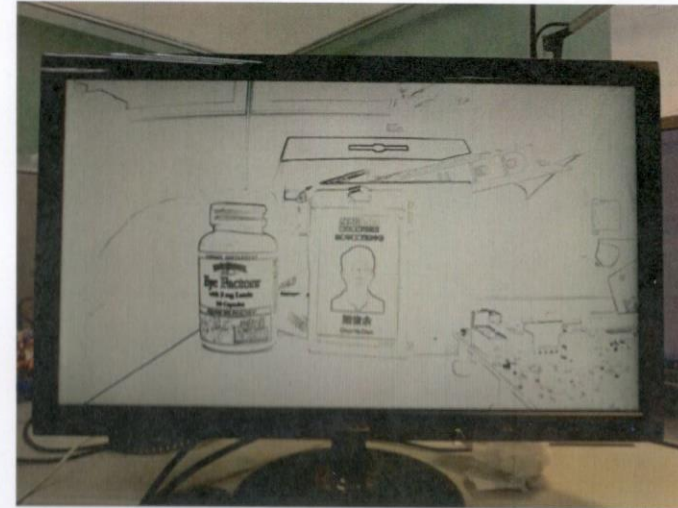## Sobel Filter Demo

---

Sobel Filter Demo

Appendix : Xmipi_example.c

```
c pipeline_pro...    c xmipi_example.c ⊠    c sensor_cfgs.h    c xmipi_m

    //memset(empty, 0x00FF00 , 1440*sizeof(int));
    for (int i=0;i<(1920*1080);i++)
    {
     addr1=i*3;
     Xil_Out8(bass_addr+addr1, 0xff);//green
     addr2=i*3+1;
     Xil_Out8(bass_addr+addr2, 0x00);//blue
     addr3=i*3+2;
     Xil_Out8(bass_addr+addr3, 0x00);//red

    }
```

Appendix : Pipeline_program.c

```
c pipeline_pro... ⊠  c xmipi_example.c    c sensor_cfgs.h    c xmipi_menu.c    c platform.c
       DmaConfig.EnableSync = 1;

       /* Start Addresses of Out Frame Store Buffers */
       DmaConfig.FrameStoreStartAddrOut[0] = (u32) FrameBaseOut;
       DmaConfig.FrameStoreStartAddrOut[1] = (u32) FrameBaseOut;
       DmaConfig.FrameStoreStartAddrOut[2] = (u32) FrameBaseOut;
/*
       DmaConfig.FrameStoreStartAddrOut[1] = (u32) FrameBaseOut
               + (width * height * bpp);
       DmaConfig.FrameStoreStartAddrOut[2] = (u32) FrameBaseOut
               + (width * height * bpp * 2);
*/
       XAxiVdma_DmaConfig(VdmaInst, XAXIVDMA_READ, &DmaConfig);

       XAxiVdma_DmaSetBufferAddr(VdmaInst, XAXIVDMA_READ,
               DmaConfig.FrameStoreStartAddrOut);

       XAxiVdma_GenLockSourceSelect(VdmaInst, XAXIVDMA_INTERNAL_GENLOCK,
               XAXIVDMA_READ);

       XAxiVdma_DmaStart(VdmaInst, XAXIVDMA_WRITE);
```