

# Operation instruction

CID2680 is an DVD CD MP3/ USB SD /NAVI/ RADIO with bluetooth car audio/Video product. The main work principle can divided into 4 parts: the control part, the audio part ,the video part and the power part.

## 1. The control part

The control part takes charge in the control of the machine which uses ATMEGA-1280 as its main control unit, the control function including: Keys AD sampling, detect input signal, power management, audio and Video source switch control, bus mastering (including I2C, SPI, UART) etc.

## 2. the audio part

The audio part can divided into two kinds: A. The inside audio, namely DVD CD、USB、SD audio / Navi audio which is produced by DVD audio processor SPHE8202T/ Navi audio processor AC-9715L; B. The outside audio, which is not produced by DVD/Navi audio processor SPHE8202T/AC-9715L. As for the inside audio, after it come out from DVD audio processor SPHE8202T/Navi audio processor AC-9715L, then convert the digital audio signal to analog audio signal, after that, go through preamplifier and power amplifier so that the current can drive the speaker; As for the outside audio, go through audio source switch, preamplifier, power amplifier and drive the speaker;.

## 3. the video part

The video part can divided into three kinds: A. The inside video, namely DVD、USB、SD analog video signal (YUV) ,B. Navi,UI digital video signal(digital 24bit RGB) C. The outside video AV-IN(CVBS).

## 4. the power part

The system uses DC regulator for input +12V voltage to different voltage which are needed by the machine.