

Operational Description (Navcradle)

- FM Transmitter

The Navigation “Navcradle” has a FM transmitter. It is fixed inside the vehicle and powered 12V from car battery. FM transmitter is designed to operate on frequency in the 88.1 ~ 107.9 MHz (range into 200 KHz Step). The u-com in the Navcradle tunes the OSD frequency to the car stereo select by using displayed GUI buttons. The selected frequency varies as voltage and the voltage inputs to the RF OSC port of FM stereo transmitter IC (BH1415F).

The stereo audio signal is modulated the selected frequency and the modulated RF is amplified by FM stereo transmitter IC (BH1415F).

The amplified RF is transmitted via transmitting antenna.

All tuning and verification are performed by the manufacturer and there are adjustments which can be made by the user within the 88.1 ~ 107.9 MHz (range into 200 KHz Step).