

Technical Specifications (Project: Sakura CD, Rev 0.10)

1. General Information:

- Intended Environment : **Indoor Use**
- Operating Temperature Range : **+15 to +35° C**
- Physical Dimensions of Unit :
 - Controller : Approx. (160x110x70)mm
 - Base: Approx. (75x55x30)mm
- Number and type of I/O cables used : **NIL**

2. Type of Equipment:

- Controller : **Portable**
- Base : **Fixed**
- The controller & Base each has a **900MHz Full Duplex Transceiver**.

3. Operating Frequency Information:

- Transmitter Operating Frequency (s) :
 - **902.20~904.90MHz (Base)**
 - **924.80~927.50MHz (Controller)**
- Receive Frequency(s) :
 - **902.20~904.90MHz (Controller)**
 - **924.80~927.50MHz (Base)**
- Declared Frequency Range (or Operating Range): **8 meter**

- Method of Frequency generation: **Synthesizer**
- Number of Channels (Frequencies): **10 channels**
- Channel (Frequency) separation: **300KHz**
- Bandwidth: **150KHz measured at -6dBc**

4. Output Power Information:

- Rated Output Power: **-2dBm**, measured at the **Antenna Terminal (50W)**
- Output power: **Fixed**

5. Modulation Information:

- Type of modulation: **FSK**

6. Antenna Information:

- Number of Antennas with the unit: **Two**
- Gain of each antenna (in dBi): **1dBi**
- Controller: **Integral (Non-removable) Loop antenna**
- Base: **Integral (Non-removable) Loop antenna**
- Loop size(s): **6mm x 38mm**

7. Power Supply Information:

- **Controller:**
 - Type of Power supply: **Battery**
 - Type of Battery: **3 x AA NiCd or Alkaline**

- Nominal Operating Voltage: **3.8V d.c**
- Operating Voltage range (Cutoff Voltage for Battery Powered): **3.4V d.c**
- Current Requirement: **100mA d.c.**
- **Base :**
 - Power derived from PS2 Console (8VDC)

8. Clock Information:

- Clock (oscillator) frequencies used in system:
 - **10.24MHz**
 - **20MHz**
 - **4MHz**