SONY DCR-TRV50

RF Exposure

Maximum Permissible Exposure (MPE)   FCC Rules CFR47 1.1310

Distance	MPE	Remarks
0.29cm	0.45mW/cm*cm	Worst case
5cm	0.006mW/cm*cm	ANT to Hand
10cm	0.0004mW/cm*cm	ANT to head

- FCC ID   : AK8DCRTRV50
- Model   : DCR-TRV50
- Type of equipment   : Portable Device
- Antenna type   : Capacitor coupling exciter circuit antenna
- Operation frequency   : 2402-2480MHz
- Modulation   : Frequency Hopping transmitter
- EIRP   : 0.465mW

- Operation
  - The data transmitter by using radio is not available in the video camera mode.
    It is available in the network mode
  - The person who uses the network mode, holds this camera and operate the display panel by using pen.
- Distance between the antenna and the human body
  - The minimum distance between the radiating elements and the human body : 2.9mm
  - In the worst case, from head to the antenna : 2.9mm.
    But in principle, it should not be closer to the antenna within 10cm.
  - In the worst case, from the transmitting antenna to the body at any given time : 2.9mm
    But in principle, it should not be closer to the antenna within 2.5cm.
- MPE calculation :

Frequency	Maximum Field Strength		EIRP	MPE [mW / cm*cm]		
[MHz]	[dBuV/m at 3m]	[V/m at 3m]	[mW]	@0.29cm	@2.5cm	@10cm
2402	86.4	0.02089	0.131	0.124	0.0017	0.0001
2441	89.4	0.02951	0.261	0.247	0.0033	0.0002
2480	**91.9**	**0.03936**	**0.465**	**0.45**	**0.006**	**0.0004**

Above test results of filed strength, Effecttive radiated power is calculated from a formula
$E = SQRT(30*P) / d$ [V/m]
(P : EIRP [W], d : Measured Distance, 3.0m , E : Field Strength)

MPE (mW / cm*cm) = EIRP / (4 x 3.14 x R x R)
(R :distance between the antenna and the human body))