

### Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

<u>Equipment</u>	WDR-U
<u>Manufacturer</u>	PATLITE CORPORATION

where: S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal: 1.58 (dBm)

Maximum peak output power at antenna input terminal: 1.438798578 (mW)

Antenna gain(typical): 1.64 (dBi)

Maximum antenna gain: 1.45881426 (numeric)

Prediction distance: 20 (cm)

Prediction frequency: 2440 (MHz)

MPE limit for uncontrolled exposure at prediction frequency: 1.0 (mW/cm^2)

Power density at prediction frequency: 0.0004175708 (mW/cm^2)

Maximum allowable antenna gain: 35.43269855 (dBi)

Margin of Compliance: 33.79269855