

FCC ID#: NM5-LUC2400E

FCC certified systems consist of:

- A2440-xxF amplifier, DC Injector and 12 VDC Power supply
- Orinoco/Lucent WLAN card with the FCC ID#: IMRWLPCE24H
- Outdoor Antenna (Table A)
- Coax Cable (Table B)

**Table A
Authorized Antennas**

<i>Make/Model</i>	<i>Antenna Type</i>	<i>Antenna Gain (dBi)</i>	<i>EIRP (dBm)</i>	<i>MPE Distance (cm)</i>
Lucent AOU24-DI-24	Grid Dish	24	48	71
YDI PT2424	Grid Dish	24	48	71
YDI PT2421	Grid Dish	21	45	50
YDI A2.45FP18	Flat Panel	18	42	36
YDI A2.45FP15	Flat Panel	15	39	25
YDI A2.45FP12	Flat Panel	12	36	20
YDI A2.45LP17	Long Panel	17	41	32
YDI A2.45LP14	Long Panel	14	38	23
YDI A2412	Omni	12	36	20
Lucent AOU24-OD-10	Omni	10	34	20
YDI A2410	Omni	10	34	20
YDI A2408	Omni	9	33	20
Lucent LXE 155845	Omni	6	30	20
Lucent AOU-WA-12-B	Wide Angle	12	36	20
Lucent AOU-WA-12-A	Wide Angle	12	36	20
YDI A2.4SP12A	Amplified Flat Panel	12	36	20

Notes:

1. MPE distance figures are based on a conservative “worse case” prediction, i.e. +24 dBm into antenna and using formula $S=EIRP/(4\pi R^2)$ and no calculation for duty factor. In practice the minimum distance will be much shorter. (Ref. 2)
2. The minimum MPE distance has been calculated for the maximum allowed Power Density (S) limit of 1.0 mW/cm² in the Frequency range 1500-100,000 MHz for uncontrolled environments (Ref. 2).

Reference:

1. FCC Part 15, sub-clause 15.247 (b) (4)
2. FCC OET Bulletin 65, Edition 97-01
3. FCC Supplement C to OET Bulletin 65, edition 97-01

CAUTION: If the power output of the amplifier exceeds +24 dBm or antennas in excess of 24 dBi gain are used, then the Effective Radiated Power limits specified in FCC rules 15.247(b)(3)(i) could be exceeded.

Table B

Authorized Cables with Minimum Lengths

Cable Type	Minimum Length/Loss	Max Recommended Lengths
RG58/U LMR195	19 Feet/ 3.4 dB	40 Feet
LMR200	20 Feet/ 3.4 dB	50 Feet
LMR240	25 Feet/ 3.4 dB	65 Feet
LMR400	50 Feet/ 3.4 dB	110 Feet
LMR 500	60 Feet/ 3.5 dB	150 Feet
LMR 600	80 Feet/ 3.5 dB	180 Feet
LMR 900	120 Feet/ 3.5 dB	260 Feet
LMR1200	150 Feet/ 3.4 dB	350 Feet
LMR1700	200 Feet/ 3.4 dB	480 Feet

NOTE: This table is for reference only. In order to comply with FCC Part 15 Certification, the installer must insure that actual coax cable used between the DC injector and the amplifier has at least 3.3 dB of insertion loss.