Remington “Eyeball”

Co-channel interference is substantial

Separation distances in meters for normal RLAN operation.

RLAN @data rate x	11 Mb/s	11 Mb/s	11 Mb/s	54 Mb/s	54 Mb/s	54 Mb/s
RLAN @ frequency offset y	0 MHz	10 MHz	15 MHz	0 MHz	10 MHz	15 MHz
Total incremental pathloss required	20	10	0	38	28	18
Free space, incremental separation distance	100	32	10	794	251	79
Indoor separation distance	40	20	10	142	71	35
Outdoor separation distance	155	68	30	683	300	132

Notes: 1 meter=1.09 yards (city block = 108 yards); power output ratio “Eyeball” to RLAN is 1W/100mW = 10dB; pathloss exponent (device 6’ off the ground) is –Λ3.3=indoor and –Λ2.8=outdoor; RLAN Signal Interference Ratio is 28dB for 54 Mb/s and 10dB for 11 Mb/s.

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