USER'S MANUAL INFORMATION

(PRELIMINARY)

The User's Manual is in preparation. The following material will be contained in the manual:

FCC ID: MYF-WL-2401

IC: 2837A-WL-2401

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

WARNING: Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment.

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

NOTE: The antenna system shall be installed ONLY by experienced antenna installers who are familiar with local building and safety codes, and wherever necessary have been licensed by appropriate government regulatory bodies. Failure to do so may void the Product Warranty, as well as expose the end-user to legal and/or financial liabilities. Hyperlink Technologies, its agents, resellers or distributors, are not liable for injury, damage, or violation of government regulations that may arise from failing to comply with the guidelines described in this document.

Caution: Exposure to Radio Frequency Radiation.

The radiated output power of this product is below the FCC radio exposure limits. Nevertheless, this product shall be used in such a manner that the potential for human contact during normal operation is minimized.

Antenna shall be mounted in such a manner as to minimize the potential for human contact during normal operation. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Hyperlink Technologies is not responsible for any radio or television interference caused by unauthorized modification of this device or the substitution or attachment of connecting cables and equipment other than specified by Hyperlink Technologies. The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user.

The following table summarizes the minimum separation distance as calculated following FCC OET Bulletin 65. Because of the large variation in antenna and amplifier configurations, minimum separation distance is calculated over the full range of total EIRP only. To obtain the minimum separation distance for a particular system, the antenna gain (dBm) listed in Table 1.2 must be added to the amplifier output power (dBm) listed in Table 1.3, resulting in the total EIRP for a given system. If no amplifier is used, the output power of the radio from Table 1.2 is to be used in place of the amplifier output power. Cross referencing this EIRP (dBm) with that listed below will give the corresponding minimum separation distance for the given system.

NOTE: THE ONLY PERMISSIBLE SYSTEM CONFIGURATIONS ARE THOSE LISTED IN THE SYSTEM CONFIGURATION TABLE AT THE END OF THIS MANUAL.

Table 1.1 Potential Health Hazard Radiation Level

| EIRP(dBm) | R (cm) | EIRP(dBm) | R (cm) | EIRP(dBm) | R (cm) |
|-----------|--------|-----------|--------|-----------|--------|
| 54 | 141.4 | 36 | 17.8 | 18 | 2.2 |
| 53 | 126.0 | 35 | 15.9 | 17 | 2.0 |
| 52 | 112.3 | 34 | 14.1 | 16 | 1.8 |
| 51 | 100.1 | 33 | 12.6 | 15 | 1.6 |
| 50 | 89.2 | 32 | 11.2 | 14 | 1.4 |
| 49 | 79.5 | 31 | 10.0 | 13 | 1.3 |
| 48 | 70.9 | 30 | 8.9 | 12 | 1.1 |
| 47 | 63.2 | 29 | 8.0 | 11 | 1.0 |
| 46 | 56.3 | 28 | 7.1 | 10 | 0.9 |
| 45 | 50.2 | 27 | 6.3 | 9 | 0.8 |
| 44 | 44.7 | 26 | 5.6 | 8 | 0.7 |
| 43 | 39.8 | 25 | 5.0 | 7 | 0.6 |
| 42 | 35.5 | 24 | 4.5 | 6 | 0.6 |
| 41 | 31.7 | 23 | 4.0 | 5 | 0.5 |
| 40 | 28.2 | 22 | 3.6 | 4 | 0.4 |
| 39 | 25.1 | 21 | 3.2 | 3 | 0.4 |
| 38 | 22.4 | 20 | 2.8 | 2 | 0.4 |
| 37 | 20.0 | 19 | 2.5 | 1 | 0.3 |

Table 1.2 Amplifier Output Power Ratings

| Amplifier Model | Output Power (dBm) |
|-------------------|--------------------|
| None (Radio only) | 11.0 |
| HA2401-AGC -250 | 24.0 |
| HA2401-AGC500 | 27.0 |
| HA2401-AGC1000 | 30.0 |

Table 1.3 Antenna Gain

| Antenna Model | Construction | Gain (dBi) |
|------------------|-----------------|------------|
| HG2401U | whip/monopole | 1 |
| HG2405U | whip/monopole | 5 |
| HG2406U | whip/monopole | 6 |
| HG2407U | whip/monopole | 7 |
| HG2408U | whip/monopole | 8 |
| HG2409U | whip/monopole | 9 |
| HG2410U | whip/monopole | 10 |
| HG2412U | whip/monopole | 12 |
| HG2415U | whip/monopole | 15 |
| HG2403MU | whip/automotive | 3 |
| HG2405MU | whip/automotive | 5 |
| HG2408P | patch | 8 |
| HG2409P | patch | 9 |
| HG2413P | patch | 13 |
| HG2414P | patch | 14 |
| HG2416P | patch | 16 |
| HG-UNI-16 | patch | 16 |
| HG2412P | linear array | 12 |
| HG2415P | linear array | 15 |
| HG2417P | linear array | 17 |
| HG2420P | linear array | 20 |
| HG2412Y | Yagi-Uda | 12 |
| HG2415Y | Yagi-Uda | 15 |
| HG2414D | dish | 15 |
| HG2415G | dish | 19 |
| HG2419G | dish | 21 |
| HG2421G | dish | 24 |

WARNING: It is the responsibility of the professional installer to ensure that when using the outdoor antenna kits in the United States (or where the FCC rules apply), only these antenna configurations shown in the table above and which are described in this document are used. The use of any other than those listed is expressly forbidden in accordance to FCC rules CFR47 part 15.204.

ONLY THOSE SYSTEMS MARKED WITH AN X CAN BE USED FOR A GIVEN NUMBER OF CHANNELS.

HYPERLINK LUCENT/ORINOCO

FCC ID: MYF-WL-2401

IC: 2837A-WL2401

| CHANNEL FREQU | JENCY (MHz): | | 241 | 12 | | | 2417 | | | 2417 | | | 24 | 22 | | | 2427 | , | | | 2432 | | Ī | 24 | 437 | | | 2442 | | | 244 | 7 | | 2 | 2452 | | 2457 | | | | | 2462 | \neg |
|---------------|--------------|----------------|---------------|----------------|------|----------------|---------------|------------------------|----------------|---------------|----------------|------|----------------|---------------|------|------------------|---------------|----------------|------|----------------|---------------|----------------|------|----------------|---------------------------------|------|----------------|---------------|----------------|----------------|---------------|----------------|------|----------------|---------------|--------------|------|----------------|----------------|------|--|------|--------|
| AMPL | IFIER MODEL: | HA2401-AGC1000 | HA2401-AGC500 | HA2401-AGC-250 | None | HA2401-AGC1000 | HA2401-AGC500 | HAZ401-AGC-Z50 None | HA2401-AGC1000 | HA2401-AGC500 | HA2401-AGC-250 | None | HA2401-AGC1000 | HA2401-AGC500 | None | | HA2401-AGC500 | HA2401-AGC-250 | None | HA2401-AGC1000 | HA2401-AGC500 | HA2401-AGC-250 | None | HA2401-AGC1000 | HA2401-AGC500 HA2401-AGC-250 | None | HA2401-AGC1000 | HA2401-AGC500 | HAZ401-AGC-250 | HA2401-AGC1000 | HA2401-AGC500 | HA2401-AGC-250 | None | HA2401-AGC1000 | HA2401-AGC500 | 1042-250-250 | None | HA2401-AGC1000 | HA2401-AGC-250 | None | | | |
| OUTPUT P | OWER (dBm): | 30 | 27 | 24 | | 30 | 27 | 24 | 30 | 27 | 24 | | 30 | 27 | 24 | - ; | 30 2 | 27 24 | 1 | 30 | 27 | 7 24 | | 30 | 27 24 | | 30 | 27 | 24 | 30 |) 2 | 7 24 | | 30 | 27 2 | 24 | | 30 2 | 27 24 | 1 | | | |
| ANTENNA | GAIN (dBi) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HG2401U | 1 | | | X | Х | | X | Х | | | X | Х | | X | > | Κ | | X | Х | | | X | Χ | | X | Х | | X |) | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2405U | 5 | | | Х | Х | | X | X | | | Х | Х | | Х |) | κ <mark>χ</mark> | X | X | Х | X | Х | X | Х | x x | < X | Х | | Х |) | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2406U | 6 | | | Х | Х | | X | X | | | Х | Х | | X |) | < | | X | Х | | | X | Х | | Х | Х | | Х | | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2407U | 7 | | | Х | Х | | X | X | | | Х | Х | | X |) | < | | X | Х | | | X | Х | | Х | Х | | Х |) | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2408U | 8 | | | Х | Х | | Х | Х | | | Х | Х | | X | | < | | Х | Х | | | Х | Χ | | Х | Х | | Х |) | | | Х | Х | | Х | | Х | | Х | Х | | | |
| HG2409U | 9 | | | Х | Х | | X | X | | | Х | Х | | X |) | < | | X | Х | | | X | Х | | Х | Х | | Х |) | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2410U | 10 | | | Х | Х | | X | X | | | Х | Х | | X |) | < | | X | Х | | | X | Х | | Х | Х | | Х |) | (| | X | Х | | X | | х | | X | Х | | | |
| HG2412U | 12 | | | X | Х | | X | X | | | Х | Х | | X |) | < | | X | Х | | | X | Х | | Х | Х | | Х |) | (| | X | Х | | X | | х | | X | Х | | | |
| HG2415U | 15 | | | X | Х | | х | X | | | X | Х | | X |) | < | | X | Х | | | X | Х | | X | Х | | Х | | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2403MU | 3 | | | X | Х | | Х | Х | | | X | Х | | х |) | < | | X | Х | | | X | Х | | X | Х | | |) | | | X | Х | | Х | | Х | | X | Х | | | |
| HG2405MU | 5 | | | X | Х | | X | X | | | X | Χ | | X |) | < | | X | Х | | | X | Х | | X | Х | | | > | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2408P | 8 | | | | Х | | | Х | | | X | Χ | | х |) | < | | X | Х | | | X | Χ | | X | Х | | Х | | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2409P | 9 | | | | Х | | | X | | | | Х | | |) | < | | | Х | | | | Х | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG2413P | 13 | | | | Х | | | X | | | | Х | | |) | < | | | Х | | | | Х | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG2414P | 14 | | | | Х | | | X | | | | Х | | |) | < | | | Х | | | | Х | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG2416P | 16 | | | | Х | | | Х | | | | Х | | |) | < | | | Х | | | | Х | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG-UNI-16 | 16 | | | | Х | | | Х | | | | Χ | | |) | < | | | Х | | | | Х | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG2412P | 12 | | | | Х | | | Х | | | X | Х | | X |) | < | | X | Х | | | X | Χ | | X | Х | | Х |) | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2415P | 15 | | | | Х | | | Х | | | | Х | | |) | < | | | Х | | | | Х | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG2417P | 17 | | | | Х | | | Х | | | | Х | | |) | < | | | Х | | | | Х | | | Х | | |) | (| | | Х | | | | Х | | | Х | | | |
| HG2420P | 20 | | | | Χ | | | Х | | | | Χ | | |) | < | | X | Х | | | X | Χ | | X | Χ | | Х |) | | | | Х | | | | Х | | | Х | | | |
| HG2412Y | 12 | | | | Χ | | | Х | | | | Χ | | |) | < | | X | Х | | | X | Х | | X | Х | | X |) | (| | X | Х | | X | | Х | | X | Х | | | |
| HG2415Y | 15 | | | | Х | | Х | Х | | | X | Χ | | X |) | Κ. | | X | Х | | | X | Χ | | X | Х | | Х |) | | | X | Х | | X | | Х | | X | Х | | | |
| HG2414D | 14 | | | | Χ | | | Х | | | | Χ | | |) | (| | X | Х | | | X | Χ | | X | Χ | | |) | | | | Х | | | | Χ | | | Х | | | |
| HG2415G | 15 | | | | Х | | | Х | | | X | Х | | X | | < | | X | Х | | | X | Χ | | X | Х | | X |) | (| | | Х | | | | Х | | | Х | | | |
| HG2419G | 19 | | | | Х | | | Х | | | | Х | | | | < | | | Х | | | | Χ | | | Х | | | > | (| | | Х | | | | Х | | | Х | | | |
| HG2421G | 21 | | | | Х | | | Х | | | | Х | | | | < | | | Х | | | | Χ | | | Х | | | > | | | | Х | | | | Х | | | Х | | | |
| HG2424G | 24 | | | | X | | | X | | | | X | | |) | (| | | X | | | X | X | | | X | | |) | (| | | X | | | | X | | | X | | | |

X Configurations tested to demonstrate FCC/IC compliance

X Configurations that comply with FCC/IC regulations

X Configurations that require a filter between the radio and the DC injector (tested)