



American Telecommunications Certification Body Inc.
6731 Whittier Ave, McLean, VA 22101

August 9, 2002

RE: Hi-G-Tek Ltd.

FCC ID: OB6-IGRS46D916

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) Please provide :
 - a) a clearer or higher resolution photograph of the Component Side of the RF board
 - b) additional photographs that show the general internal construction of the inside of the device (i.e. additional boards, etc.) per 15.1033 (b)(7).
- 2) Please provide a higher resolution copy of the label as the FCC ID was not easily readable.
- 3) The product literature for this device shows that the unit may contain an RS232 or RS485 output (The RS232 version requires certification, DoC authorization, or possibly verification depending on intended use), while the test report appears to show that the unit was tested only with a RS485 version (requiring only verification authorization). Has the RS232 version been tested. The unit with an RS232 output is considered to be a composite device subject to both the requirements of a PC Peripheral & TX requirements? Since the RS485 version was tested to Class B emission, it is assumed that the RS232 version will require a certification or DoC authorization as a PC Peripheral device. Is this version to be certified under a separate ID Number?
- 4) From the information provided in the operational description, many options were not populated or considered optional. Some of these options affect certain oscillators in the device. Please confirm that none of these changes or options affect the transmit circuitry as defined in 2.1043(a). It appears that most of these options affect the digital device and receiver circuitry. If this is the case, please note that the manufacturer is responsible for the additional verification/DoC authorizations needed for these versions/options before these are to be manufactured.
- 5) This application shows the outdoor DataReader as the unit tested. The information in the back of the users manual only lists the outdoor unit P/N as certified. Please confirm that this application is only for the outdoor unit.
- 6) The test report shows that the output power is variable (page 8 of 45). Please confirm that all radiated tests were performed with the EUT at maximum power.
- 7) Please confirm the RBW & VBW settings used for the harmonics measured on page 10 or 45 of the test report.
- 8) The Users Manual shows a 90° connector for one option of antenna mounting, yet the information provided for the antenna does not show this capability. Please explain and provide additional information showing compliance with 15.203 such as photographs, drawings, etc.
- 9) The users manual shows various DC input voltages of 12, 24, & 48 V. Please explain which version(s) were evaluated and tested. Were the other voltages investigated to determine worse case? Are there any differences in circuitry for the different input voltages?
- 10) Conducted emissions appear to only be provided only for receive/idle modes of operation. Conducted emission to 15.207 must be provided (i.e. while the unit is transmitting).

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- 11) The transmitter schematic shows optional/additional parts for what appears to be a different voltage. Please explain which version was tested and the intended use for these optional parts. Please note that this application will cover the transmitter only as tested, unless supporting test data can be provided for each version/configuration.



Timothy R. Johnson
Examining Engineer

[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@AmericanTCB.com)

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. Also, please note that partial responses increase processing time and should not be submitted.

Any questions about the content of this correspondence should be directed to the sender.