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August 18, 2005

FCC ID: TIADR500

In response to your comments regarding the application for certification of the devices referenced above please find our response below:

1. Please provide the equipment code for this device on the 731 form.

Done. Uploaded.

2. Please complete section IV of the 731 by providing the name and position of the person responsible for the application and attesting to the non drug statement.

Done. Uploaded.

3. Please note that this is not a modular device as defined in DA001407. The FCC ID number is listed as being on the larger circular Black container and not on the transmitter module itself. As such, the device is more adequately defined as an end product. As such the device would receive its own FCC ID number (as shown by placing the ID on the case), but it would not be necessary to apply the modular approval route. A modular approval for this device would place the FCC ID on the transmitter board/module itself.

I would like to discuss this with you.

4. Please note that the 731 form states the device operates under 15.245 but the test report states the device was tested to 15.231(e). Please explain and please be consistent in all documentation. Please correct all documentation as needed.

Somehow the wrong report was PDF'ed. The correct one will be uploaded.

5. Please note that the test report states the operating frequency is 418MHz, but other documentation (i.e. operational description, 731, manual etc) states the device operates in the 24GHz range. Please explain and please provide consistent documentation. Please correct all documentation as needed and please provide a report that is in accordance with the frequency, limits and rule part for the device.

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6. Please note that the test report states that the antenna was ‘Shortened the antenna element to a length of 12 cm’. Please note that the operational description states the operating antenna is a horn. Please explain.

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7. Please note that the operational description states that the device is a Doppler radar. The bandwidth plots do not appear to indicate this type device. Please explain.

Somehow the wrong report was PDF’ed. The correct one will be uploaded.

8. Please note that the Block diagram shows that the device operates on two available channels. Please provide test data for both channels.

The two channels you see are two separate outputs from the mixer diodes. This allows the system to calculate the direction of the moving target, i.e. approaching, moving away.