



IDT Technology Limited

萬威 科 研 有 限 公 司

To : Intertek Testing Services

Date : 13 November, 2003

Attn : Ms. Cecilia Ho

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From : Frankie Chan

Subject : Speed/Cadence operation/transmission theory

Speed/Cadence operation and transmission theory

The speed sensor and cadence sensor which are activated by the spoke magnet. The modulated signal (125kHz burst) will be radiated from the antenna after triggered. The modulated signal is generated and controlled by the MCU. There are two different unique coding for speed and cadence sensor. The receiver will determine what RF signal is received and the decoding process will be done by the MCU in the receiver side.

Actually, our speed and cadence sensor do not have the modulating signal (pure coded signed before modulation) for checking or monitoring. It is because the overall modulated signal is controlled by the MCU which include the modulated signal (125KHz) and the modulating signal (unique code). As a result, we cannot provide the modulating signal for your testing at the moment.

Dated this 12 day of November 2003.

By _____ (Frankie Chan)

Title Electronic Engineering Specialist

