



DEPARTMENT OF PSYCHIATRY  
SCHOOL OF MEDICINE

M-003  
LA JOLLA, CALIFORNIA 92093

November 14, 1980

Mr. Jack Hammond  
Vice President, Sales and Marketing  
Del Mar Avionics  
1601 Alton Avenue at Red Hill  
Irvine, CA 92714

Dear Mr. Hammond:

The purpose of this letter is to introduce you to a potential product development for your Avionics electrocardioscanner.

Our laboratory is currently studying heart rate variance properties in cardiac and psychiatric patients. The literature suggests that heart rate variability can be used as an index of cardiac health. It may be that specific patterns of heart rate change can differentially diagnose pathology.

Our present research methodology involves computerized spectral and period analysis of heart rate, taken from Avionics Holter monitor recordings. While the computational power required for these analyses is considerable and the interpretation of results difficult, we anticipate that eventually the techniques may be standardized and simplified to the point where a micro-processor system, incorporated into your scanner (creating an intelligent scanner) or supplied as an optional add-on, could provide primary care physicians with greatly increased diagnostic and evaluative power at costs equivalent to a basic Radio Shack computer.

We would be glad to meet with you or your representative, perhaps at our laboratory (Room 2080, Basic Science Building, UCSD) to describe further our research program and discuss ways in which we might work together to certify our hypotheses and develop a beneficial and marketable product.

Respectfully yours,

A handwritten signature in cursive script, reading "Michael R. Blackburn".

Michael R. Blackburn, Ph.D.  
Postdoctoral Scholar (714)452-2705

A handwritten signature in cursive script, reading "Arnold J. Mandell".

Arnold J. Mandell, M.D.  
Professor of Psychiatry (714)452-3680

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