

**Contractor's Progress, Status and Management Report --
Monthly Progress Report**

**Period Covered by the Report
1 April through 30 April 2000**

Date of Report: 12 May 2000

Wrist Interactive Device for Wearable PC
SBIR Phase II Topic N95-137
Contract No. N00421-97-C-1293
Dollar Value \$1,708,653

ViA Inc.
12550 West Frontage Road
Burnsville, MN 55337

Sponsor
Charles D. Caposell
Naval Air Systems Command
AIR-4.5T

Data Item No. 003
Contract Reference Item 0003
Authority - Data Acquisition Documentation No. DI-MGMT-80227
Monthly Report No. 25
Issuing Government Activity
Requiring Office AIR-4.0T

Security Classification - Unclassified

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1. Progress & Plans

Hardware

Phase 3/4 Boards

Expected delivery date on the CPU and Display boards is May 15.

RF

Design of Phase 4 RF board is completed. Layout and mechanical design of case are scheduled to occur in May. We have identified a SMT Bluetooth antenna of very small size made by Moteco and are in the process of ordering it.

Audio

Design of the Phase 4 audio board is completed. Layout and mechanical design of case are scheduled to occur in May.

Optics

The mechanical design of the lens mounting system and lightbox has been completed.

Battery System

Testing of the battery protection circuit and of the battery cells themselves in both charging and discharging modes was completed successfully. A charger was identified and ordered.

Mechanical Design

The mechanical design tasks that have been completed are:

- On/Off switches mounting in main case
- Completion of light box design
- Mounting of lens and finalization of plastic case

The mechanical design tasks that remain to be completed are:

- Audio module case
- RF module case
- Battery case, battery charger, and attachment to battery module on wrist band
- Wrist band clasp

These tasks have been scheduled and are expected to be completed by early June.

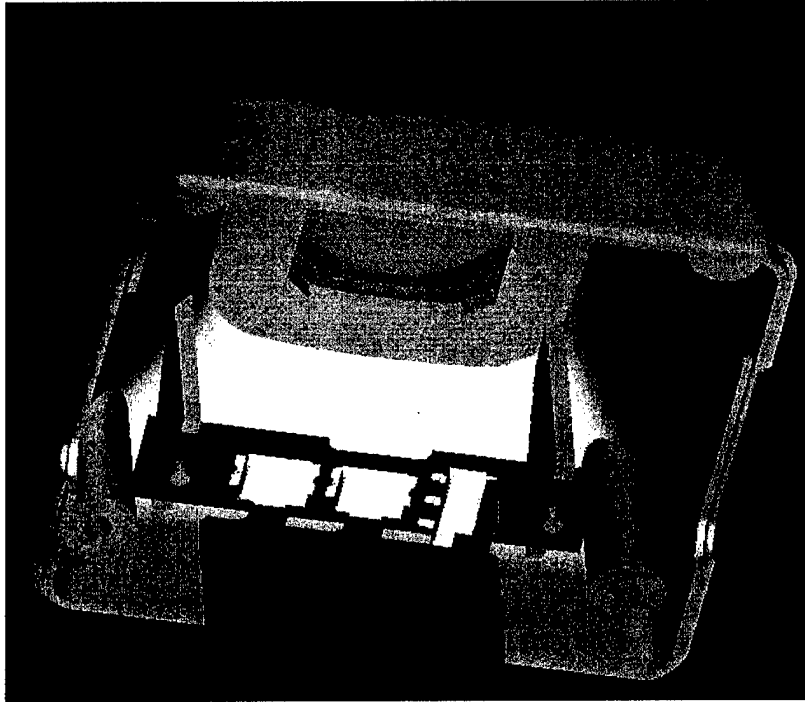


Fig. 1 Switch assembly

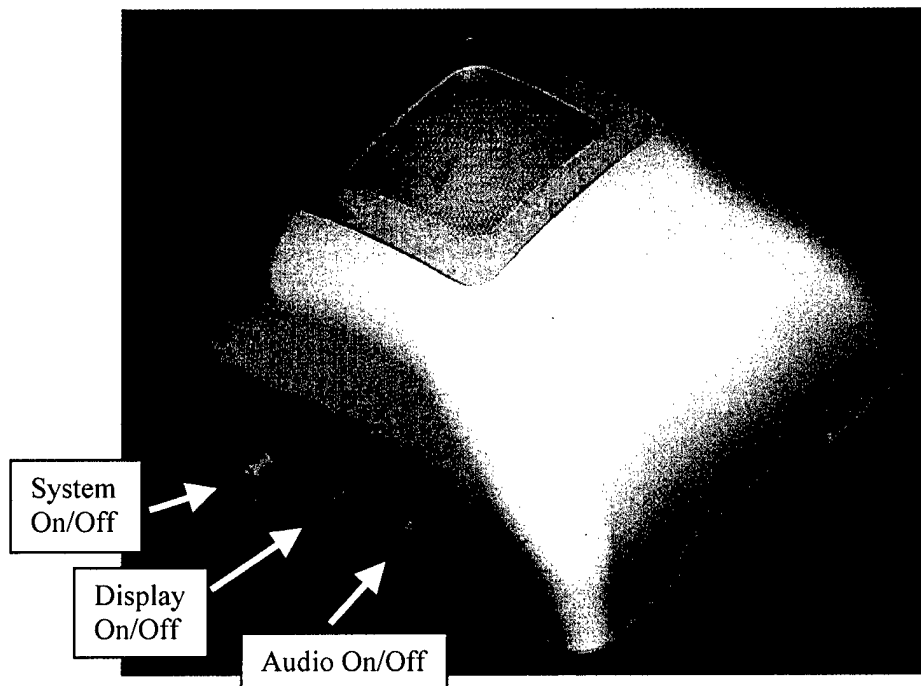


Fig. 2 Bezel for mounting of lens and switches



Fig. 3 Lightbox with frame holding LED cluster

Software

Bluetooth Drivers

Work is progressing to render the Bluetooth drivers under Windows CE robust and well engineered.

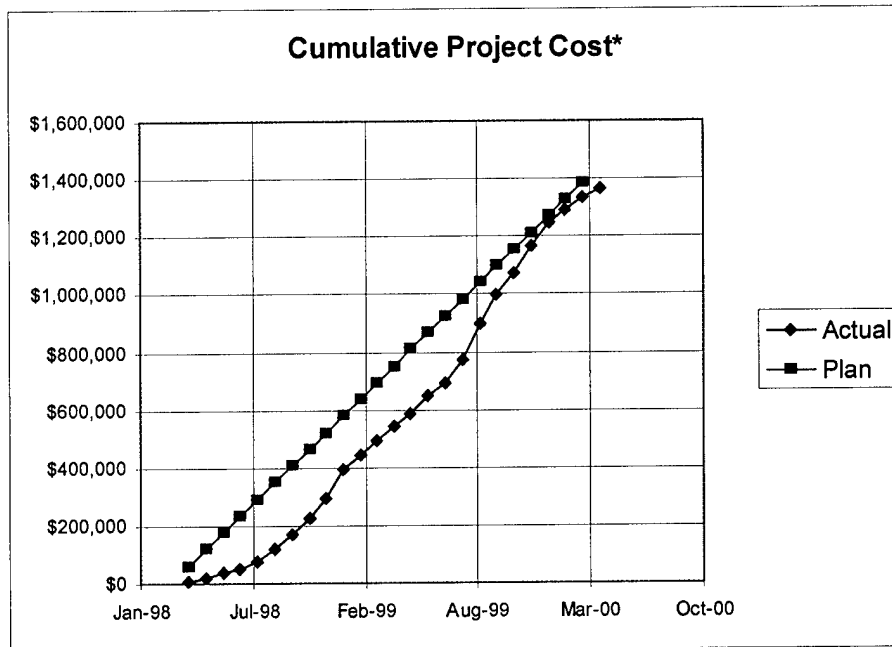
The Bluetooth driver on the Windows 98, host side, is completed. The management of graphical data is almost completed. The remaining task is the management of the audio data.

Audio Drivers

Work is underway to develop a CE audio driver to allow communication between the StrongARM processor and the DSP. Andrea Electronics is waiting for us to finalize the microphone locations in the audio case in order to fine-tune their phase-filtering software.

High-Level CE Software

No work was done in the month of April on the high-level CE software.



***without G&A and fee**

2. Project Cost

Cost incurred for the period and total cost, without G&A and Fee:

Current Month's Cost*	Cumulative Cost
\$30,624	\$1,364,358

* Current month cost is 1 April through 30 April

Person-hours for the period and cumulatively:

Current Month's Hours	Cumulative Hours
415	17,226

3. Schedule and Staffing

Delivery of Digianswer/Motorola Bluetooth PC cards is expected in July. Unless software issues arise at this point, the WID prototypes should be ready for delivery shortly thereafter.

4. Author

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REPORT DOCUMENTATION PAGE

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Project, Washington, DC 20503.

1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE May-12-00	3. REPORT TYPE AND DATES COVERED Monthly Progress Report April 1, 2000 - April 30, 2000
4. TITLE AND SUBTITLE Monthly Progress Report Wrist Interactive Device for Wearable PC		5. FUNDING NUMBERS Contract N00421-97-C-1293	
6. AUTHOR(S) Paolo Dini			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) ViA Inc. 12550 West Frontage Rd. Burnsville, MN 55337		8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) & ADDRESS(ES) Charles D. Caposell Code 4.0T Naval Air Systems Command Building 2185, Ste 1190 22347 Cedar Point Rd. Unit #6 Patuxent River, MD 20670-1161		10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES			
12a. DISTRIBUTION/AVAILABILITY STATEMENT Distribution A		12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) DISTRIBUTION STATEMENT A Approved for Public Release Distribution Unlimited			
14. SUBJECT TERMS		15. NUMBER OF PAGES	
		16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	
20. LIMITATION OF ABSTRACT			