IMAGE DISPLAY SYSTEM EVALUATION Jim Torson Version 2 December 11, 1981

SGP MEMO NO. 11

The following is a summary of the evaluations of the various image display systems that were investigated.

1. APPLIED DYNAMICS INTERNATIONAL - LIGHT 50

This system requires that image data be transmitted from the computer as character codes rather than as binary pixel values. This is not acceptable for our application.

2. ADVANCED ELECTRONICS DESIGNS - AED 512

This system can store at most a single 512x512 8-bit image. The system can be driven by an external sync signal, so it might be possible to store multiple images in multiple systems with one system supplying the sync to drive the others. However, this would not be able to meet our requirement of handling a 1024x1024 image.

3. ADVANCED ELECTRONICS DESIGNS - AED 767

This system can store at most a single 1024x1024 8-bit image. Although a prototype unit was demonstrated at the SIGGRAPH conference in August 1981, it is apparently not yet available as an announced product.

4. AYDIN CONTROLS - 5216 DISPLAY COMPUTER

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5. CHROMATICS - CGC 7900 SERIES

This system is organized around storage of a 1024x1024 image. The system contains only a single 256 element look up table. Thus, it cannot meet our requirement of doing intensity and hue display of two independent images.

6. COMTAL - 8000-R SERIES

7. COMTAL - VISION ONE/20

8. DEANZA SYSTEMS - ID 5000 SERIES

9. DEANZA SYSTEMS - IP 6400 FAMILY

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10. DEANZA SYSTEMS - IP 8500 SERIES

11. GENISCO COMPUTERS CORP. - GCT-3000

This system can be configured around storage of either "mediumresolution" images (approximately 512x512) or around storage of "highresolution" images (approximately 1024x1024). For "medium-resolution", there is no capability to combine four stored images to effectively handle a 1024x1024 image. Thus, meeting our 1024x1024 image handling requirement would require the "high-resolution" version of the system. However, we could not intercept the refresh data path between the look up table and the digital to analog converter because they are contained on the same circuit board. Also, there is no 4096 element look up table available for use with the "high-resolution" system. Thus, the system could not meet both our requirement for handling a 1024x1024 image and our requirement for doing intensity and hue display.

12. GRINNELL - GMR 27 SERIES
13. GRINNELL - GMR 37 SERIES
14. GRINNELL - GMR 260 SERIES
15. GRINNELL - GMR 270 SERIES

16. IKONAS - RDS-3000

17. INTERNATIONAL IMAGING SYSTEMS - MODEL 70

18. INTERPRETATION SYSTEMS INCORPORATED - VIEWS

19. LEXIDATA - SYSTEM 3400

20. LEXIDATA - SYSTEM 8000

Although this system has some imaging capability, it is designed to be used mainly for line drawing graphics. It cannot be configured to meet our image display requirements.



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21. RAMTEK - RM-9100

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22. RAMTEK - RM-9200

23. RAMTEK - RM-9300

24. RAMTEK - RM-9400

25. RASTER TECHNOLOGIES - MODEL ONE

26. SCION

27. SPATIAL DATA SYSTEMS - EYECOM II

28. SPATIAL DATA SYSTEMS - EYECOM III

29. VICOM

The following is the list of vendors to which the the Image Display System Request for Quotation should be sent:

Bruce R. Fay Applied Dynamics International 3800 Stone School Road Ann Arbor, Michigan 48104

Andy Rutan Cleveland Enterprises, Inc. (Advanced Electronics Design, Inc.) 6201 Copper N.E. Albuquerque, NM 87108

Robert Hill Aydin Controls Suite 220 20301 Ventura Blvd. Woodland Hills, CA 91364

Jerry Beckes BFA Corporation 1704 Moon, N.E. Albuquerque, NM 87112

Annie Skelton Chromatics, Inc. 2558 Mountain Industrial Boulevard Tucker, Georgia 30084

Gene Currin Comtal Corporation 505 West Woodbury Road Altadena, CA 91001

John E. Sample DeAnza Systems, Inc. 118 Charcot Ave. San Jose, CA 95131

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Kevin Murray Genisco Computers Corporation 3545 Cadillac Ave. Costa Mesa, CA 92626

Tom Seitzler



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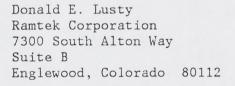
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Grinnell Systems Corporation 2159 Bering Drive San Jose, CA 95131 Oliver I. Maypole Ikonas Graphics Systems Inc. P.O. Box 18305 5711 Six Forks Road Raleigh, NC 27609

Hal Stone International Imaging Systems 650 North Mary Avenue Sunnyvale, California 94086

Lowell Coulson LogE/Interpretation Systems Incorporated 6322 College Blvd. Overland Park, Ks 66211

Jane M. Albin Lexidata Corporation 23265 South Pointe Drive Suite 140 Laguna Hills, CA 92653



Louis Doctor Raster Technologies 110 Eighth Street Troy, New York 12181

Chritsine Allison Scion Corporation 12310 Pinecrest Road Reston, Virginia 22091

Paul Vinson Paul Vinson Industrial Consultants (Spatial Data Systems, Inc.)





P.O. Box 1105 Carefree, AZ 85377

Dr. William K. Pratt Vicom Systems, Inc. 2307 Bering Drive San Jose, California 95131