

Installation and Operation Manual ProSeries Model SPS390 Dynamic Signal Analyzer Part One

Legacy Manual

COGNITIVE VISION, INC. 7220 Trade Street, Suite 101 San Diego, CA 92121-2325 USA

instruments@cognitivevision.com www.cognitivevision.com

Tel: 1.858.578.3778 / Fax: 1.858.578.2778 In USA: 1.800.VIB.TEST (842.8378)

LEGACY MANUAL POLICY

Cognitive Vision Legacy manuals are those product manuals and documentation that accompanied earlier products and product lines which have since been discontinued ("Legacy Products"). Over the past thirty years, these include products that were sold by Spectral Dynamics, Scientific Atlanta and Smiths Industries.

Cognitive Vision, Inc. provides downloadable copies of these manuals strictly as a courtesy to its customers who continue to use Legacy Products. <u>IMPORTANT</u>: Please read the following Disclaimer carefully. Any use of this manual indicates your express agreement with this policy.

If you have any questions regarding this policy, or for additional information regarding the serviceability of any Legacy Product(s), please call our service department.

DISCLAIMER

IN DOWNLOADING THIS MANUAL, THE USER UNDERSTANDS AND EXPRESSLY AGREES THAT COGNITIVE VISION MAKES NO WARRANTIES WHATSOEVER, EITHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN USING THIS MANUAL, THE USER ACKNOWLEDGES THAT ALL PREVIOUS PRODUCT WARRANTIES ISSUED BY SPECTRAL DYNAMICS, SCIENTIFIC ATLANTA AND SMITHS INDUSTRIES FOR LEGACY PRODUCTS HAVE SINCE EXPIRED.

IN PROVIDING THIS MANUAL, COGNITIVE VISION ASSUMES NO LIABILITY OR RESPONSIBILITY WHATSOEVER TO THE USER OF THIS MANUAL, THE USER'S AGENTS AND/OR CUSTOMERS, OR ANY OTHER PARTY, FOR ANY CLAIMED INACCURACY IN THIS MANUAL, OR FOR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY ANY USE OF THIS MANUAL, REGARDLESS OF WHETHER COGNITIVE VISION WAS INFORMED ABOUT THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM MADE AGAINST THE USER'S ORIGINAL PRODUCT WARRANTY.

FURTHER, COGNITIVE VISION SHALL NOT BE RESPONSIBLE FOR ANY INTERRUPTION OF SERVICE, LOSS OF BUSINESS, ANTICIPATORY PROFITS, CONSEQUENTIAL DAMAGES, OR INDIRECT OR SPECIAL DAMAGES ARISING UNDER ANY CIRCUMSTANCES, OR FROM ANY CAUSE OF ACTION WHATSOEVER INCLUDING CONTRACT, WARRANTY, STRICT LIABILITY OR NEGLIGENCE.

NOTWITHSTANDING THE ABOVE, IN NO EVENT SHALL COGNITIVE VISION'S LIABILITY TO THE USER EXCEED AN AMOUNT EQUAL TO THE REPLACEMENT COST OF THIS MANUAL.

COGNITIVE VISION, INC. 7220 Trade Street, Suite 101 San Diego, CA 92121-2325 USA

analyzers@cognitivevision.com www.cognitivevision.com

Telephone: 1.858.578.3778 / Fax: 1.858.578.2778 IN USA: 1.800.VIB.TEST (842.8378)

Installation and Operation Manual

ProSeries Model SPS390 Dynamic Signal Analyzer





Signal Processing Systems Publication No. 222623 Rev C 15 May 1998

Copyright © 1997-1998 Signal Processing Systems. All rights reserved.

ProSeries Model SPS390 Dynamic Signal Analyzer

© Copyright 1997-1998 Signal Processing Systems. All rights reserved.

May 15, 1998

DCN 20227 222623 Rev C

Prepared by:



SMITHS INDUSTRIES

Aerospace

Signal Processing Systems 13112 Evening Creek Drive South San Diego, CA 92128-4199

Telephone : (619) 679-6000 · Fax (619) 679-1836

PROPRIETARY RIGHTS OF SIGNAL PROCESSING SYSTEMS are involved in the subject material and all manufacturing, reproduction, use and sales rights pertaining to such subject matter are expressly reserved. It is submitted in confidence for a specified purpose, and the recipient, by accepting this material, agrees that this material will not be used, copied or reproduced in whole or in part, nor its contents revealed in any manner, or to any person, except for the purpose delivered.

SPS Publication No. 22262300

NUMERICAL LIST OF EFFECTIVE PAGES

New editions are usually complete revisions of the manual. Update packages, which may be issued between editions, contain additional and replacement pages to be merged into the manual by the customer. The dates on the title page change only when a new edition or a new update is published. No information is incorporated into a reprinting unless it appears as a prior update; the edition does not change when an update is incorporated.

The software code, if applicable, printed alongside the date indicates the version level of the software product at the time the manual or update was issued. Many product updates and fixes do not require manual changes and, conversely, manual corrections may be done without accompanying product changes. Therefore, do not expect a one to one correspondence between product updates and manual updates.

Dates of issue for original and changed pages are:

Original A January 31, 1997 B March 26, 1997 C May 15, 1998

Page No.	Chang	ge No.	Page No.	Chang	e No.
Title		с́С	Service Information		B
Copyright-Trademark		С			
A (LOEP)		С			
Certification		C			
Warranty	•••••	С			
i through vii		С			
viii Blank	•••••	С			
1–1 through 1–14		с			
2–1 through 2–8	•••••	С			
3–1 through 3–17		С			
3–168 Blank		С			
4–1 through 4–16		с			
4–1 unougn 4–10	•••••	C			
5–1 through 5–10	•••••	С			
6 1 through 6 24		с			
6–1 through 6–24	• • • • • •	C			
Glossary-1 through Glossary-29	9	В			
Glossary-30 Blank		В			
Index-1 through Index-5		с			
Index-6 Blank		C			
	• • • • • •	\sim			

Information in this document is subject to change without notice. Companies names, and data used in examples herein are fictitious unless otherwise noted. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without the express written permission of Signal Processing Systems.

COPYRIGHT

Signal Processing Systems PRO Series Windows 95 Operating Guide use with Signal Processing Systems PRO Series Analyzers.

Under the copyright laws, neither the documentation nor the software may be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part without the prior written consent of Signal Processing Systems.

© 1997, Signal Processing Systems.

Signal Processing Systems Division of Smith Industries 13112 Evening Creek Drive South San Diego, California 92138-4199

Portions Copyright © 1995-1996 Scientific-Atlanta, Inc.

All rights reserved.

This manual, as well as the software described in it, is furnished under license and may only be used or copied in accordance with the terms of such license. The information in this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Signal Processing Systems. Signal Processing Systems assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

Except as permitted by license, no part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written permission of Signal Processing Systems.

TRADEMARKS

BalancePRO, TachPRO, TestPRO, AcquisitionPRO, AnalysisPRO, DynamicPRO and GoPRO are either registered trademarks or trademarks of Signal Processing Systems.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the Unites States and/or other countries.

All other trademarks are the property of their respective manufacturers.

Written and designed at Signal Processing Systems, 13112 Evening Creek Drive South, San Diego, CA 92128-4199, USA.

For defense agencies: Restricted Rights Legend. Use, reproduction or disclosure is subject to restrictions set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at 252.227-7013.

For civilian agencies: Restricted Rights Legend. Use, reproduction or disclosure is subject to restrictions set forth in subparagraphs (a) through (d) of the commercial Computer Software Restricted Rights clause at 52.227-19 and the limitations set forth in Microsoft's standard commercial agreement for their software. Unpublished rights reserved under the copyright laws of the United States.

Printed in the United States of America.

Part number: 55800600

Publication 558006A

CERTIFICATION OF FACTORY TEST AND INSPECTION

Smiths Industries, Signal Processing Systems Division, certifies that this product has been thoroughly inspected and tested, and that the product met published specifications when shipped from the factory.

Laboratory equipment used to perform the tests and inspections is calibrated and controlled to assure accuracy consistent with specification requirements. All working standards are periodically certified, and are traceable to the National Bureau of Standards to the extent allowed by the Bureau's calibration facility.

SMITHS INDUSTRIES

Aerospace

Signal Processing Systems Division 13112 Evening Creek Drive South San Diego, CA 92128-4199 Telephone (619) 679-6000 FAX (619) 679-6400 Service Telephone: 1-800-426-8887

PRODUCT WARRANTY POLICY

WARRANTY

All items manufactured by Signal Processing Systems are warranted to be free from defects in material and workmanship and to conform to currently published specifications. The warranty period, which varies with the item, is one year or less from the date of shipment. Written notice of defects must be received by Signal Processing Systems within the warranty period. Our liability is limited to servicing or adjusting any item returned to the factory for that purpose, including replacing any defective part therein. The customer must pay packing, crating, and transportation costs to and from the factory. At customer's request, Signal Processing Systems will make reasonable efforts to provide warranty service at the customer's premises, provided the customer pays our then current rates for field services and the associated travel and living expenses. If a fault has been caused by improper installation, maintenance or use, or by abnormal conditions of operation, repairs will be billed at normal rates.

If any fault develops, the following steps should be taken:

- 1. Notify Signal Processing Systems by giving the item model number, serial number and details of the difficulty. On receipt of this information, you will be given service data or shipping instructions.
- 2. On receipt of shipping instructions, forward the item prepaid. If the item or the fault is not covered by warranty, an estimate of charges will be furnished before work begins.

WE DISCLAIM STATUTORY AND IMPLIED WARRANTIES, SUCH AS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE.

IN NO EVENT SHALL SIGNAL PROCESSING SYSTEMS BE LIABLE, IN CONTRACT OR IN TORT OR UNDER ANY OTHER LEGAL THEORY, FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, REGARDLESS OF WHETHER WE WERE INFORMED ABOUT THE POSSIBILITY OF SUCH DAMAGES, AND IN NO EVENT SHALL SIGNAL PROCESSING SYSTEMS'S LIABILITY EXCEED AN AMOUNT EQUAL TO THE SALES PRICE.

SMITH	S INC	JUSTR	IES
A	erosp	ace	

13112 Evening Creek Drive South San Diego, CA 92128-4199 Telephone (619) 679-6000 FAX (619) 679-6400 Service Telephone: 1-800-426-8887