# AVS 5.5 Documentation



This guide contains information about the documentation for the AVS 5 product from Advanced Visual Systems Inc. It is organized into the following sections.

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ADVANCED VISUAL SYSTEMS INTERNATIONAL OFFICES

NEWSGROUP

INTERNATIONAL AVS CENTRE (IAC)

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Revision Date: 10/21/99

# **AVS Documentation On-line**

The following documentation is included in this set of Portable Document Format (pdf) files:

More information	Open Document	User's Guide
More information	Open Document	Tutorial Guide
More information	Open Document	Developer's Guide
More information	Open Document	Module Reference
More information	Open Document	Applications Guide
More information	Open Document	Animating AVS Data Visualizations
More information	Open Document	AVS5 Update
More information	Open Document	Chemistry Developer's Guide
More information	Open Document	AVS/Graph User's Update
More information	Open Document	Technical Overview
More information	Open Document	Developer's AVS Release Notes and Installation Guide
More information	Open Document	UNIX Release Notes and Installation Guide
More information	Open Document	LINUX Release Notes and Installation Guide
More information	Open Document	UCD Builder User's Guide

Clicking on the links in the *More Information* column will take you to the *Information on the Individual Manuals* area of this document. Clicking on the links in the *Open Document* column will open the manual.

If you do not have a copy of the Adobe Acrobat Reader, you can download it at no cost from Adobe's web site at <a href="http://www.adobe.com/prodindex/acrobat/readstep.html">http://www.adobe.com/prodindex/acrobat/readstep.html</a>.

## About the On-line Files

Each file contains the complete contents of the book. For your convenience, the Table of Contents for each book contains links to the chapters and major sections within each chapter. A red dashed box surrounding the text signifies a link.

In addition, each of the books contains bookmarks that are also links to the chapters and the major sections within the chapters.

You can also use the Acrobat Reader's text-searching capabilities to find specific information you may be looking for.

# Printing the On-line Files

When printing these .pdf files, you must set the postscript level to *Level 1* in the print dialog box. If the *Level 2 Only* button is selected, some of the images contained in these files will not print properly.

## **AVS Documentation in Print**

All of the guides in this pdf collection are available in bound versions. Please contact your local sales office for information on obtaining the books. Contact information appears at the end of this document.

# Where to Start

This document and the on-line versions of the AVS documentation have been designed to help you find the information you are looking for quickly and easily.

# If You Are a Previous User of AVS5

Information on newer functionality, operating system levels, and features of the AVS product not directly discussed in the documentation set is addressed in the *UNIX Release Notes and Installation Guide*. Please consult this guide first for the most recent information on the product. If you know which volume of the documentation contains the information you are looking for, you can directly access the pdf version from the links to each individual volume on page 2 of this document.

## If You Are a New User of AVS5

After reviewing the *UNIX Release Notes and Installation Guide*, the following manuals will provide you with basic information about installing, licensing, exploring, and running AVS5.

More information Open Document  $Technical \ Overview$ More information Open Document  $User's \ Guide$ More information Open Document  $Tutorial \ Guide$ 

If you need additional examples or information, the International AVS Centre at Manchester University is a good source. Contact information for the IAC, and for Advanced Visual Systems Technical Support, is listed below.

# Information on the individual manuals

# **AVS 5 Update**

The AVS 5 Update was first published at the introduction of AVS version 5. It describes improvements to the AVS interface, data types, Image Viewer, Geometry Viewer, and new facilities for module and application developers made at the time of the release. It also provides summary tables that list new and upgraded modules...

#### User's Guide

The User's Guide was published with the release of AVS version 4. This volume is a basic introduction to the AVS product through hands-on demonstrations included with the product. Each of the viewers is examined in detail, and a large number of commands, script writing, and viewing techniques are explained.

#### **Tutorial Guide**

The Tutorial Guide was also published with the release of AVS version 4. This volume includes a basic introduction to the AVS software product; an overview of data visualization techniques; data importation techniques; and information on the basic functionality of the product.

# Developer's Guide

The Developer's Guide was published with the release of AVS version 4. This manual describes what a programmer needs to know to write AVS modules. The manual assumes an elementary understanding of the concept of a data flow network and a working knowledge of either the C or the FORTRAN programming languages. It also assumes familiarity with AVS on the user level.

#### Module Reference

The Module Reference was updated with the release of AVS version 5. This manual provides functional specifications and descriptions of all of the AVS modules in alphabetical order.

# Applications Guide

The Applications Guide was published with the release of AVS version 4. This manual contains in-depth descriptions of data importation through the AVS Data Interchange Application, the AVS Module Generator, and the AVS Data Viewer.

# Animating AVS Data Visualizations

Animating AVS Data Visualizations was published with the release of AVS version 4. This manual describes how to use the AVS Animation Application and its associated components to create computer based and video based animations of AVS data visualizations. This manual is intended for AVS users and programmers who wish to generate animation sequences of AVS data visualizations and record them to disk files for display on workstations and record the image sequences on film or video hardware.

## AVS/Graph User's Guide

The AVS/Graph User's Guide was published with the release of AVS version 5.02. It provides information on the use of the AVS/Graph module, which allows users of the AVS product to plot their data using a variety of advanced charting and graphing techniques.

## **Technical Overview**

The Technical Overview was published with the release of AVS version 4. This manual provides a broad technical description of data visualization, and of the AVS product.

# Chemistry Developer's Guide

The Chemistry Developer's Guide was updated in 1992 with the release of AVS version 4. The Molecule Data Type (MDT) addresses the general needs of classical, substructure, and quantum chemistry fields. The Chemistry Developers Kit (CDK) consists of a set of Fortran and C libraries to facilitate use of the MDT, and a collection of modules, networks, and test data to demonstrate its use. This manual describes what a programmer needs to know to write an AVS chemistry module using the Molecule Data Type.

#### UCD Builder User's Guide

The UCD Builder User's Guide is the documentation for a series of unsupported modules for the AVS product.

# Developers AVS Release Notes and Installation Guide

The Developers AVS Release Notes document was updated with the release of AVS version 5.5. The Developers AVS product is designed to provide application developers with the ability to develop and deploy AVS based applications to their users. Although these applications will use various AVS capabilities, end users will often be unaware that the application they are using is built on top of AVS.

## UNIX Release Notes and Installation Guide

The UNIX Release Notes document was updated with the release of AVS version 5.5. This document describes AVS 5.4 as it runs on UNIX workstations. This manual includes enhancements; improvements; licensing information; information common or important to all platforms, including how AVS works under X windows and common programming considerations; and platform specific information for supported platforms, including system prerequisites, release notes, and recent improvements and known limitations.

## LINUX Release Notes and Installation Guide

The LINUX Release Notes document was updated with the release of AVS version 5.5. This document describes AVS 5.4 as it runs on LINUX workstations. This manual includes enhancements; improvements; licensing information; system prerequisites; release notes; and recent improvements and known limitations.

# **Contacting Advanced Visual Systems**

The best source of technical support information about our products is at the Advanced Visual Systems Technical Support web site (http://help.avs.com). The general web site (http://www.avs.com) also has information you may find of help. Both sites are frequently updated with content on the company, our products, support services, FAQs, technical papers, and a variety of other information of interest. You can also contact any Advanced Visual Systems office or distributor for assistance; the listing below is also available on the web site. You can request a license through the web site, or through any of the Advanced Visual Systems offices listed below.

# Advanced Visual Systems International Offices

#### **USA**

300 Fifth Avenue Waltham, MA 02451 800-428-7001 TEL 781-890-8287 FAX E-mail: sales@avs.com Support: support@avs.com

#### **Denmark**

Roejelskaer 11, 1st Floor 2840 Holte, Denmark 45-45-474400 TEL 45-45-474495 FAX E-mail: sales-info@avs.dk Support: support@avs.dk

#### **France**

Espace CLICHY
18, Rue Mozart
92587 CLICHY, France
33-1 41 06 69 00 TEL
33-1 47 31 22 22 FAX
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Support: support@avsfrance.com

#### Germany

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#### Italy

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#### UК

Montrose House Chertsey Boulevard Hanworth Lane, Chertsey Surrey, England KT16 9JX 44-1932-581600 TEL 44-1932-581601 FAX E-mail: sales@avsuk.com Support: support@avsuk.com

# Newsgroup

The USENET newsgroup, **comp.graphics.apps.avs**, provides a means for communicating with other users of Advanced Visual Systems products.

# International AVS Centre (IAC)

The AVS Users Group is hosted at the IAC. The IAC provides many services for users of the AVS and AVS/Express products from Advanced Visual Systems, including user-contributed modules available free using the *ftp* utility. To contact the IAC:

International AVS Centre

Manchester Visualization

Manchester Computing

The University, Oxford Road

Manchester M13 9PL

United Kingdom

Email: avs@iavsc.org

Web Site: http://www.iavs.org

FTP: ftp.iavsc.org

+44 161 275 6095

Fax: +44 161 275 6040

# Advanced Visual Systems Product Distributors

This list of distributors may be able to assist you with limited support, or direct you to the best source of technical support from an AVS office.

#### Barcelona, Spain

# ADDLINK Software Científico S.L.

c/ Roselló 205

08008 Barcelona, España

E-mail: Juan Manuel SolTheta

(jmsole@addlink.es)

34-93-4154904 TEL

34-93-4157268 FAX

ADDLINK covers Spain and Portugal

## Valencia, Spain

#### Decom Valencia S.L.

Avenida del Saler, n. 10

Entresuelos L1-L2 (Torre 3)

34-96-3348274 TEL

34-96-3341409 FAX

E-mail: Andres Alcolea (aalcolea@decom.es)

#### **Switzerland**

#### Visual Solutions GmbH

Vorder Braech

CH-8494 Bauma/Zürich

Switzerland

41-(0)52-386-35-25 TEL

41-(0)52-386-35-26 FAX

E-mail: visual\_solutions@compuserve.com

# <u>Australia</u>

# Visualisation Systems Pty. Ltd.

35 Horace Sreet

St. Ives. 2075, Australia

61-2-9413-1477 TEL

61-2-9983-0555 FAX

E-mail: sales@vs.com.au

#### South Africa

#### Visual Numerics (Pty) Ltd

P.O. Box 11033

Vorna Valley

1686 R.S.A.

27-11-466-0319 TEL

27-11-466-0320 FAX

E-mail: visualn@iafrica.com

# People's Republic of China

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Rm 1018, International Enterprises Business Building

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8610-62025599 TEL

8610-62019111 FAX

E-mail: Rockies@public.bta.net.cn

# Republic of China

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Taiwan, R.O.C.

886-2-2698-3456 TEL

886-2-2698-3535 FAX

E-mail: stc@tpts1.seed.net.tw

## <u>Japan</u>

#### KGT Inc.

2-8-8 Shinjuku, Shinjuku-ku

Tokyo 160-0022, Japan

81-3-3225-0742 TEL

81-3-3225-0740 FAX

E-mail: sumori@tt.kubota.co.jp

## Republic of Korea

#### Neat Information Telecommunication, Inc.

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82-2-583-2222 TEL

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#### <u>Israel</u>

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