

**descw**



U  
S  
E  
R  
M  
A  
N  
U  
A  
L



---

## About this chapter

Chapter 1 introduces you to this DESCW User Manual. It discusses the hardware and software requirements before explaining how DESCW is installed and started. Also included are instructions on how to obtain and install the weekly inventory updates and the periodic software updates.



---

## What is DESCW

The DESCW software is developed by Eurimage in collaboration with ESA/ESRIN. It allows the user to perform multi-mission inventory searches on the major ESA-supported missions by displaying the satellites' coverage over an Earth map. It provides the location of all scenes, whether "Available"(already acquired) "Planned"(future passes) or "Visible"(all scenes technically acquirable). It also allows you to view Quick Looks (on CD-ROMs or on-line) for the Landsat 5 & 7 TM, ERS SAR and JERS-1 VNIR missions and to prepare an order for the selected scenes.

The most important features of DESCW are a user-friendly graphical interface, a powerful area search mechanism and a mission-specific filtering tool.

---

## Before You Begin

### Typographical Conventions

- File, program and directory names are printed in a `MONOSPACE TYPEFACE`
- Menu and dialogue options are printed in **bold face**

### What is in this manual

Chapters:

- 1 Install, update and load the DESCW software
- 2 DESCW command interface: the **Menus**, the **Toolbar** and the **Status bar**
- 3 Quick tour of the main DESCW features, including examples
- 4 Reference, discussing each specific feature in depth

Appendices

- A Ordering products
- B Troubleshooting
- C Satellites, orbits, products and world reference systems
- D Remote Sensing terminology
- E Storing Quick Looks on a hard disk
- F DESCW files

### Contacting technical support

For more information, queries and suggestions about this software, please contact:

ESA/ESRIN  
DESCW Technical Support  
Tel: +39 -06 94 180 744  
Fax: +39 -06 94 180 862  
e-mail: descw-help.desk@eurimage.com  
Via Galileo Galilei  
I - 00044 Frascati  
ITALY

---

## Getting DESCW working

This section explains the basic procedures for installing and updating DESCW.

### Hardware/Software requirements

DESCW has been designed to run on an IBM-compatible PC. The configuration of the machine should be as follows:

- Colour monitor (at least 17" is recommended)
- SVGA graphics (1024 by 768 pixels, at least 256 colours)
- Mouse
- At least 16 Megabytes of RAM
- About 100 Megabytes of hard disk storage (plus about 70 MB for the CD version with additional map layers)
- An Intel-Pentium™ CPU (an Intel-Pentium II™ is strongly recommended for better performance with the higher resolution maps and for viewing the Quick Looks)
- Microsoft Windows 95, 98, NT or 2000

---

## Installing DESCW

This section provides instructions for installing DESCW.

DESCW is available on:

- CD-ROM
- CD-ROM with Landsat or ERS SAR Quick Looks
- On-line on the ESA/ESRIN or Eurimage servers

### On CD-ROM

DESCW is available off-line on CD-ROM; call DESCW Support at the address shown above to obtain a copy.

On CD-ROM the following file is present:

DESCW\_CD.EXE Self expanding installation file (about 80 MBytes)

On CD-ROM with Landsat Quick Looks the following files are present:

DESCW\_CD.EXE Self expanding installation file (about 80 MBytes)

L5\_TM Folder containing the Browsing Images (Quick looks)

CD\_LABEL CD identifier

## On-line through the ESA/ESRIN and Euirmage servers

DESCW is also available on the ESA/ESRIN server and can be downloaded through an FTP connection or via a World Wide Web page.

### FTP access

The ESA/ESRIN server is connected to the worldwide Internet network.

**Address** odisseo.esrin.esa.it  
**Username** anonymous  
**Password** please enter your e-mail address  
**Directory** /FTP/software/descw

Warning: case sensitive !

These files are available:

Filename	Type
descwset.exe	Setup (installation)
descwset.W02	Setup (installation) vol. 2
descwset.W03	Setup (installation) vol. 3
descwset.W04	Setup (installation) vol. 4
descwset.W05	Setup (installation) vol. 5
thematic.exe	Thematic maps (installation)
data.exe	New inventories
readme.txt	Setup instructions
mfc42.dll	Microsoft Library (needed only if the software once installed is not running)
descw_up.exe	Upgrade Setup (further installations)

The files should be transferred in binary mode; they are ZIP auto-expanding files.

## *ESA World Wide Web access*

The location is (note: case sensitive):

<http://earth.esa.int>

From here, select "Catalogues, Ordering" and then "DESCW" and "Install DESCW".

## *Eurimage World Wide Web access*

The location is (note: case sensitive):

<http://www.eurimage.com/DESCW/descw.htm>

### **From a server**

Download the above files into a temporary directory on your Hard Disk (e.g. C:\DESCWTEMP).

Should your browser fail to download the data and only display the file contents, use your **right** mouse key and choose the "save link as" option when clicking on the icons.

Sometimes your browser can add a (2) at the end of the downloaded file. In this case you should remove it before proceeding with the installation.

When decompressing files using software such as WINZIP, check that the destination disk and directory of decompressed files from DATA.EXE and THEMATIC.EXE is the same directory selected for the DESCW software (e.g. DESCW99).

### **DESCW Installation**

Once you have all the software on hard disk or CD-ROM, carry out the following steps; the description refers to the system utilities available to Windows 95, 98 or NT users:

- 1 Close all running programs and start WINDOWS EXPLORER if not already running.
- 2 Run the SETUP routine (e.g. by double-clicking on the DESCWSET.EXE file from WINDOWS EXPLORER). SETUP will display a welcome splash screen and ask you if you have closed all running programs - click the **Next** button if you have; otherwise click on the **Cancel** button and return to step 1.
- 3 A readme file dialogue window is shown containing information about the current version: new features, bugs solved and general warning - then click the **Next** button
- 4 Enter your Name, Company and e-mail address - then click the **Next** button

- 5 Choose the directory where you want DESCW to be installed (the default directory name is C:\DESCW99 - just click on the **Browse** button to change it) and click on the **Next** button; if you choose the directory where an older version of DESCW is installed, the older version will be completely overwritten. Note that on this and the subsequent installation dialogue screens you can go **Back** to the previous screen or **Cancel** the installation.
- 6 You can now choose to install one or more of the following (see above for the correspondence between these options and the data files - if the data files are not present the install option will not be available):
  - Software
  - Basic Maps
  - Landsat 5 & 7 and JERS-1 old inventories
  - Old INSAR inventories
  - New inventories (CD only)
  - Optional maps (CD only, may be on multiple lines)
  - Thematic maps (CD only)

The first time you install DESCW you should select all of these items - click on the **Next** button

- 7 A dialogue warns about the possibility that the SETUP routine is not able to replace the `mfcc42.dll` file. In this case choose **ignore** and, if the DESCW software will not run after setup, replace the file present in your `WINDOWS\SYSTEM` directory with the file available in the DESCW selected directory). Click on the **Next** button.
- 8 The SETUP routine will install the required files (software, archives, maps) on your hard disk and create an entry in the **Programs Menu** of Windows; a dialogue window is displayed confirming this.

The installation is now complete. Check that it has been successful by running DESCW (see Chapter 2); when you are satisfied that it is running correctly, you can delete the installation files from the temporary directory on your hard disk. If you are installing from the network, you should now:

- copy the `DATA.EXE` file from the temporary directory into the one chosen for DESCW (e.g. `DESCW99`) and expand it.

- copy the `THEMATIC.EXE` file from the temporary directory into the `DESCW\MAP` (e.g. `DESCW99\MAP`) and expand it.

## Upgrading DESCW software

DESCW software is regularly upgraded (new versions) adding new functionalities, solving reported problems or including new missions. Use the version number and creation date to decide whether or not to download it.

In this case it is not needed to re-install the whole software, you may simply install an upgrade file, `DESCW_UP.EXE`, available on-line, **OVER THE PREVIOUS INSTALLATION**. Launching this file you enter in a similar `SETUP` program but with fewer options when you arrive at step 6. Remember to select the same directory of the existing version !

## Updating DESCW inventory files

DESCW inventory files should be updated regularly. Weekly updates are provided on the ESA/ESRIN and Eurimage servers in order to keep your database updated. The update, stored in a compressed file, `DATA.EXE`, is available for downloading each Monday morning. Place this file in the DESCW directory (e.g. `DESCW99`) and expand it by double clicking on its name from Windows Explorer.

## DESCW through the BackWeb



In order to simplify file downloading for DESCW a system has been set up for automatically sending the software and updates to users through the BackWeb application.

BackWeb is a client-server application that permits data to be sent via Internet from a server to all the clients that have subscribed to it. It is based on data push technology and uses idle on-line time and check-point/restart (after a break the transmission resumes from the point of interruption).

The BackWeb client is free of charge and can be downloaded from the following address:

<http://www.backweb.com>

Choose the client for your platform from "BackWeb Client Options".

Once installed you can subscribe to "channels" (activating a channel means activating a connection with a specific server) and test if everything is working well.

To subscribe to a channel just click on "add channel" .

To subscribe to the DESCW channel open the following page with an Internet browser such as Netscape or MS Internet Explorer:

<http://earth.esa.int/backweb>