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# CIAO Manuals

[General](#) | [Imaging](#) | [Grating Spec](#) | [S-Lang](#) | [Sherpa](#)

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The list below provides links to the CIAO manuals. Some are in HTML format, while others are Postscript format; the format and number of pages (for PS) are noted.

The [Proposer's Observatory Guide](#) is available from the Chandra Proposal Information page. We also maintain presentations from the [CIAO Workshops](#) and information on [using S-Lang in CIAO](#).

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## *General*

- ◇ [ChIPS Manual](#) (HTML) or [PS](#) (126 pages)
- ◇ [Sherpa Reference Manual](#) (HTML) or [PS](#) (459 pages)
- ◇ Chandra Coordinate Systems:
  - [Imaging](#) (PS, 25 pages)
  - [Aspect Calibration](#) (PS, 9 pages; draft version)
  - [Dispersed Spectra](#) (PS, 5 pages; draft version)
- ◇ Data Model:
  - [Introduction](#) (PS, 34 pages)
  - [Principal DM Tools](#) (PS, 43 pages)
  - [Virtual File Syntax](#) (PS, 36 pages)
- ◇ [Data Products Guide](#) (HTML)
- ◇ [The Chandra ABC Guide to Pileup](#) (PS, 23 pages)

## *Imaging*

- ◇ [Chandra Coordinate Systems: Imaging](#) (PS, 25 pages)
- ◇ [Detect Manual](#) (HTML) or [PS](#) (190 pages)
  - [Detect Manual data](#) (tar.gz, 32 MB)
- ◇ [An Introduction to Exposure Maps](#) (PS, 12 pages)
- ◇ [Chandra PSF Library](#) (PS, 16 pages)
- ◇ [SAOImage DS9 Reference Manual](#) (HTML)
- ◇ [Transformation, Convolution, and Deconvolution](#) (PS, 79 pages)

## *Grating Spectroscopy*

- ◇ [Chandra Coordinate Systems: Dispersed Spectra](#) (PS, 5 pages; draft version)
- ◇ [GUIDE: A Sherpa Package for Analyzing High-Resolution Spectra](#) (PS, 23 pages)
- ◇ [Analysis Guide for Chandra High Resolution Spectroscopy](#) (HTML)

## *S-Lang*

- ◇ [ChIPS Manual](#) (HTML) or [PS](#) (126 pages)

## Manuals – CIAO 3.4

- ◇ [Sherpa Reference Manual](#) (HTML) or [PS](#) (450 pages)
  - ◇ [S-Lang Manual](#) (HTML)
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URL:  
<http://cxc.harvard.edu/ciao3.4/manuals.html>  
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