

Occultation Support Software

There are multiple free or low-cost software programs, mostly only available for Windows computers, which support occultation predictions, data capture, data reductions, observation coordination.

2023 April 15

Name	Purpose	Location
Occultwatcher	Primary tool for finding predictions for given location and for observer coordination	www.occultwatcher.net
Occult4	Predictions, reductions, data maintenance, central tool for IOTA	lunar-occultations.com/iota/occult4.htm
IOTA Video Capture	Analog video capture	occultations.org/observing/software/
IOTA Video Playback	Play back captured video	Distributed with IOTA Video Capture
Pymovie (Win and Mac)	Analog and digital video data extraction	occultations.org/observing/software/pymovie
Pyote (Win and Mac)	Data analysis	Distributed with Pymovie
Limovie	Analog video capture and data extraction	Astro-limovie-info/limovie/manual_0997/manual_en.html
Virtual Dub	Analog video data capture and analysis	www.virtualdub.org
VirtualDub2	Enhanced version of VirtualDub	virtualdub2.com
Guide9	Planetarium program, star chart generation	www.projectpluto.com
Computer Aided Astronomy (C2A)	Planetarium program, star chart generation	www.astrosurf.com/c2a/english
SharpCap	Support for digital and analog occultation data capture	www.sharpcap.co.uk
Tangra (Win, Linux, Mac)	Reduce astronomical video observations	www.hristopavlov.net/tangra3/
Occurec	Open source video recorder for Windows	www.hristopavlov.net/OccuRec/OccuRec.html
FireCapture	Video and digital data capture	www.firecapture.de
lagarith	Lossless video compression	lags.leetcode.net/codecs.html
GrazePrep	Generate predictions and maps for grazing occultations	grazeprep.com