**Minimum System Requirements**

* 8" telescope
  * ~1m effective focal length
  * Equatorial mount or derotator
  * Tracking at lunar rate
* Astronomical video camera with adapter to fit telescope
  * NTSC or PAL
  * 1/2" detector
* Digitizer - for digitizing video and creating a 720x480 .avi compatible with LunarScan
* Time encoder/signal
  * GPS timestamp or WWV audio
* PC compatible computer
  * ~500GB free disk space
* Software for detecting flashes

**System Examples**

* Telescopes:
  1) 10" f/4.7 (254mm) Newtonian
  2) 14" (355mm) f/8 Meade on an equatorial wedge with a 0.33x Optec focal reducer
  3) 14" (355mm) f/11 Celestron on Paramount MX with an Optec focal reducer spaced for 0.25x
  4) 20" (500mm) f/8.1 from Ritchey Chretien Optical Systems on a Paramount ME with an Optec focal reducer spaced for 0.25x
* Pyxis rotator to adjust camera angle
* C-mount adapter and baffle
* ASTROVID StellaCam-EX (Sony HAD/EX chip) or Watec Ultimate 902H2 1/2" CCD
* SONY Video Walkman (GV-D800 NTSC) or Canopus ADVC-110 used as a FireWire digitizer
* KIWI-OSD GPS time encoder or IOTA-VTI video time inserter
* Shortwave receiver for WWV time signal (if GPS is not available)
* 2GHz Intel P4 with 1GB RAM, 480GB 7200rpm SATA hard drive, and FireWire card
* Software
  * Windows XP or Windows 7
  * WinDV, used for recording an .avi, vid+auds setting
  * LunarScan, used to locate impact flash candidates in an .avi
  * VirtualDub, used for making flash and stellar calibration video clips
  * Limovie, used for video photometry
  * Virtual Moon Atlas, used to locate the position of the flash on the moon