

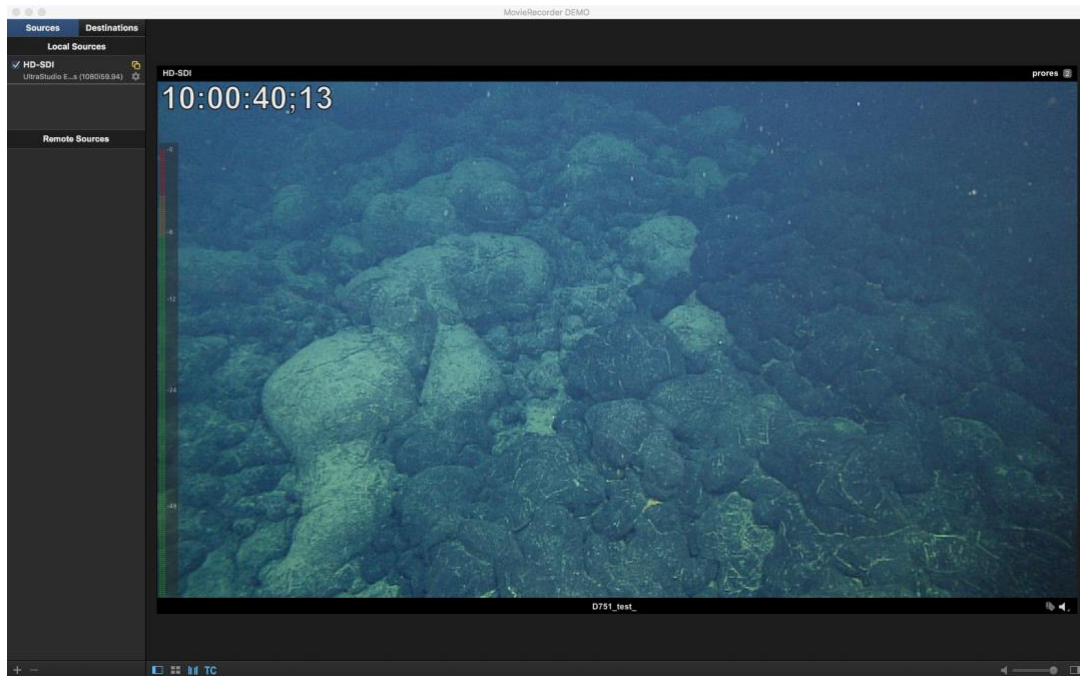
## M3RS digital video capture system MiniROV

The MovieRecorder program can be controlled both directly (ctrl-ctrl-8-enter) and remotely via 1) Apple Remote Desktop or 2) a remote instance of MovieRecorder (both run from VARS).

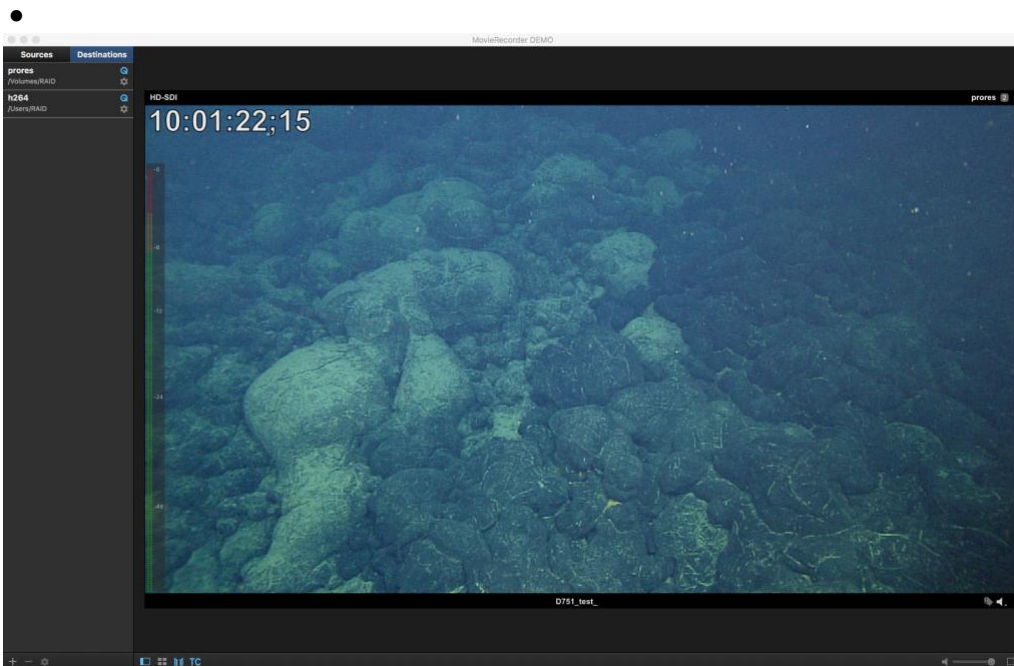
1. When logged into m3rs
  - General system check:
    - Video write location (**RAID**) mounted and visible on the m3rs desktop (this **should** happen automatically). **RAID** drive is mounted on the desktop. If it does not appear, be sure it is powered on. If you don't see the RAID drive mounted on the desktop, restart the computer as it will remount the RAID if it was ejected accidentally. **Note that the video RAID is 4TB, so be mindful about storage capacity. M3RS recordings accrue at about 125 GB per hour.**
2. Ensure that MovieRecorder is running --- its setup to start automatically and restart in the event of a crash.



3. MovieRecorder control interface displays the live ROV video feed. If the camera is not turned on, you will see a black screen.
  - On the left side in the Sources tab, HD-SDI source should be selected (with a check mark).
  - The device is DeckLink UltraStudio Express



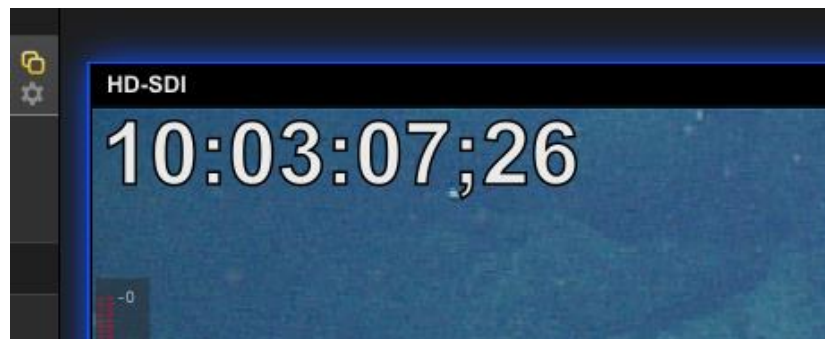
- On the destinations tab you will see prores and h264. These are the two video formats that are being recorded simultaneously by m3rs. You will not need to edit these settings, but they control the format, bit rate, record location, file naming, and file length.



\*Note: on the right side of the window, you should see 'prores 2.' When you click on it, you should see both prores and h264 listed and they should both be checked (we are recording both formats).

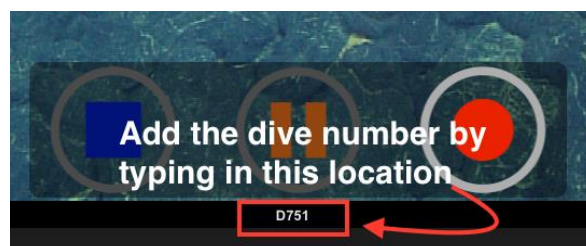


\*Note on upper left side of the MovieRecorder interface, time is continuously rolling, regardless of whether video is being recorded. The system is using UTC time from the computer, which is synced to the networked time server.



4. Before recording, enter the dive number at the bottom of the interface. Highlight the dive # at the bottom of the window. Type your current # (i.e. 751 for MiniROV dive 751). Ask the pilots and verify the correct dive number.

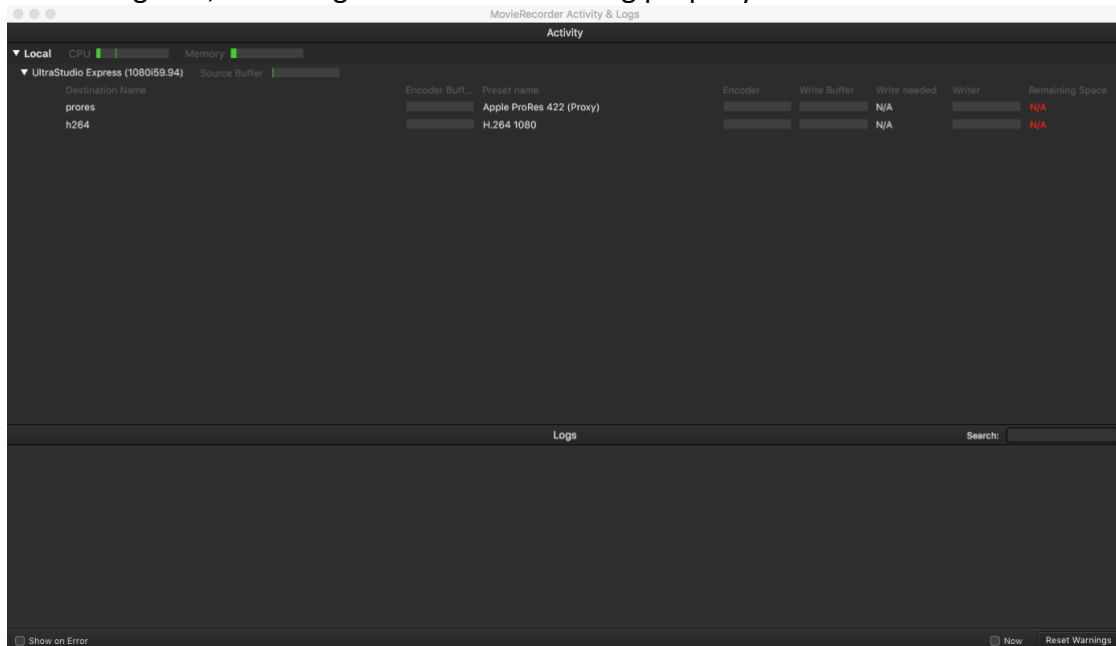
5.



6. To begin recording, push the record button (large red circle).
  - The VTR controls show only when the cursor is in the video window.
  - The video will be outlined with a red key line while recording.



7. While recording, monitor video through the main window. UTC time is displayed on the left and elapsed time for each file is on the right side of the window.
8. You can also monitor the system performance through the 'Activity & Logs' window.
  - To open **Activity & Logs**, in the Menu bar select Window -> Show Activity & Logs Window (⌘-L). The Activity & Logs window can alert you to potential issues like memory or storage availability, cpu usage, etc. As long as everything is in the green, recording should be functioning properly.



9. To stop recording, at the end of the dive, push the blue stop button (large blue square).
 

**\*NOTE:** You must stop recording at the end of the day! If recording continues unnecessarily, it puts a huge burden on the system, over utilizing automated processes and available storage. Please remember to **stop recording at the end of each dive**