



AMSI Access Grid Room Hardware Guidelines (DRAFT)

I have generally recommended the following hardware in the past. See

<http://www.arcs.org.au/index.php/tturnkey-video-collaboration/318-room-based-turnkey-vc-system>, <http://www.arcs.org.au/index.php/tturnkey-video-collaboration/315-desktop-turnkey-vc-system> or <http://www.arcs.org.au/index.php/tturnkey-video-collaboration/316-meeting-turnkey-vc-system>.

But some of the hardware is out-dated, so let me provide some updated suggestions:

Computer Equipment (Single or multi-machine installation ????)

- Dell T3600 Computer
- Running Windows 7 or Linux (Scientific Linux is known to work well)

Dell Precision T3600 details

- 2.4GHz Quad-core CPU or better
- 8GB of Memory or more
- 160GB SATA (7200RPM) Hard Disk Drive or better
- Gigabit NIC
- 16X max DVD+/-RW Drive
- Recommend Nvidia Video Cards (has good Linux support) - 1 GB NVIDIA Quadro 2000 are known to work well

Presentation machine???? – This really depends if it is a portable setup or room based system

Audio Equipment

- Audio Device – Chat50 – see <http://www.accessgrid.org/test/taxonomy/term/23> for product details
 - Designed for 1 or 2 participants
- Audio Device – Chat150
 - Designed for 3-6 participants
 - See <http://www.accessgrid.org/test/taxonomy/term/23> for product details
- Audio Device – Chat150 Attached
 - Basically 2 Chat150's joined together. Provides better Coverage

- Clearone Converge Pro 880
 - With or without Optional telephone interface
 - Requires Stereo Amplifier and speakers (wall mounted or ceiling mounted)
 - 4 x Shure MX393/C Boundary microphones

Video Capture Equipment (should we recommend better than webcam – though some these days are very good)

- Video Device - Web Cam
- Upgrade option to Quad-input Capture Card with one or two Sony EVID100 Cameras
- See <http://www.accessgrid.org/test/taxonomy/term/15> for camera details
- See <http://www.icp-australia.com.au/DataSheets/IVCE8784.html> for capture card details

OR

HD Video Capture Equipment

Capture Cards

There are 2 options that I have used and recommend (depends on the output types of Camera)

- Blackmagic Intensity Pro (<http://www.blackmagic-design.com/au/products/intensity/models/>) which does HDMI capture; or
- Blackmagic DeckLink SDI (<http://www.blackmagic-design.com/au/products/decklink/models/>) which does SDI capture;

Note – try www.dbd.com.au for an Australian supplier for these capture cards.

Cameras

- You can use a simple “Handy Cam” that has HDMI output. For example I am using a Sony HDR-HC9 on my “Jastest” machine.
- I am also using a PTZ (Pan/Tilt/Zoom) Sony EVI-HD1 camera that has SDI output (http://www.sony.com.au/product/resources/en_AU/pdf/brochures/industrial_cameras/Sony_EVIHD1_brochure.pdf) – to give you an idea in regards to costs, this camera is just under \$5K (including GST).

Therefore, using the examples above, the “handy cam’s” with HDMI output will use the Blackmagic Intensity Pro card. The Sony EVI-HD1 will use a Blackmagic DeckLink SDI card.

Video Display Equipment

- Large LCD Screen – preferably dual or triple screens
- Projectors – recommended 3 screens

Anyway – please feel free to comment.

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