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CARTAH Audio Capture Kits, Performance Gear & Lab Supplementals

Proposal 2008-042-1

ID Permanent <http://techfee.washington.edu/proposals/view/2008-042-1/>

Link Department CARTAH

Non- No restrictions

core First No

AccessApplication?Student No
Initiated?

Abstract

The CARTAH Audio Capture Kits, Performance Gear & Lab Supplementals Proposal contains 4 main components. The first component provides for student access to a variety of audio capture devices, for either in-lab or field recording usage. The second provides the students an ability to present audio-based works outside the lab environment, enabling a variety of presentation and installation configurations. The third portion of the package address current vacancies in our multimedia software suite, a continuing drive toward providing students access to cutting edge software tools otherwise inaccessible on campus. The final component calls for the upgrade of our scanning and color printing capabilities in the CARTAH Open Computing Lab.

Background

CARTAH, the Center for Advanced Research in the Arts and Humanities, serves students, staff, and faculty of the University of Washington. Our mission is to provide the University of Washington community with advanced technical resources for work in the arts and humanities. CARTAH is open to all students of the University of Washington, with preference given to students in the arts and humanities. CARTAH is a project-based center. Students come to us with research ideas that require equipment and expertise that is otherwise often only found in restricted labs, if at all. CARTAH provides help and expertise in formulating and completing complex student based animation, video, audio, print publishing, and web based projects.

Benefits

At CARTAH we are committed to facilitating multi-faceted interdisciplinary student research ventures as well as assisting the student research community by supplying professional level tools and expertise. It is the intent of this proposal to meet a variety of needs for students working under our research umbrella. Based on previous requests by students in our facilities as well as by addressing the changing needs to maintain student access to cutting edge toolsets and the ability to create professional quality works we have proposed the following 4 components for your review.

COMPONENT 1: AUDIO CAPTURE KITS

includes: Zoom H2 and H4 handy recorders, Edirol R-4 recorders, Fireface 800 interfaces, Sennheiser K6 mic kits, ST350 Soundfield Mic kit, and various cases and accessories.

After receiving funding from STF in previous years for upgrades to laboratory facilities in regards to audio systems, the need has arisen for substantial upgrades to our field recording capabilities. Students supported by CARTAH have access to some of the most cutting edge research facilities in computer audio at any institution worldwide. In order to enhance our students' ability to work fluidly and to be freely creative with this in-studio framework, it is necessary that we upgrade the tools used for capturing audio, especially those used for field recordings and for interviews or foley tracks. We have chosen 4 tiers of remarkable sound capture equipment for checkout access to CARTAH clients.

The first audio capture tier includes 2 Fireface 800 interfaces, identical to the units used in our audio labs, as a checkout-able means of recording large ensembles using just a laptop, microphone set and the interface. This will allow students to record, on location, up to 16 channels of pro quality audio, via a transparent workflow as compared to that used within the campus studios.

The next audio capture tier includes a small fleet of Edirol R-4 hard disk recorders. These units allow for syncing to video and on-the-fly audio editing whilst providing a portable solution to audio recording. These are 4-channel units and are meant to provide a replacement for our archaic stereo DAT recorders, that have been here beat by quality of audio, the lack of a need for purchased recordable media and the ability to edit on a more stable solid state media. All the Edirol units provide compact flash recording and battery operated portability.

The last 2 tiers of audio capture devices are variations of the Zoom Handy recorders. The first has an onboard 4-channel microphone that can be used in concert with the standard ambisonic recording format we currently use for 3-D audio research. The second has onboard stereo microphones, but the capability of connecting 2 more microphone signals for a more diverse recording setup. Both provide SD card recording and battery operated portability. These are meant to replace our mini-disc recorders, the current CARTAH solution for portable recording. The mini-disc format is fading, recordable media for which are becoming more difficult to find, as well as the fact that the technology is proprietary and difficult to transfer from. The proposed units would solve these problems as well as provide a much higher quality solution for student recordings.

The CARTAH inventory already has in place, a few high quality studio microphones suitable for indoor use, so we are focusing the microphone bid for kits suited for field recording and advanced experimentation outside of our current fleet of equipment. The outdoor and remote recording setup is the most common approach used in audio projects at CARTAH. For the microphone portion of this proposal component we are choosing to extend our current field recording kits, by asking for more of the same as were funded in STF proposal 2004-091. These Sennheiser mic kits are immensely versatile in conforming to a variety of recording configurations and are a high demand item within our CARTAH inventory. Since this proposal also asks for increasing the ability to use such microphone kits in the field via the portable capture devices, it is perceived that the demand will continue to increase even further.

The final portion of the audio capture kits is an ST350 Soundfield Mic kit. This mic is an upgraded version of our current studio ambisonic microphone and can be use to capture 3-d audio with any of the Edirol R-4 Hard Disk recorders. We have been very pleased with the quality of recordings obtained from our version of this microphone, and would love to be able to extend that ability to these portable recording kits. The proposed kit includes all components necessary for versatile field recording setups and the ability to use battery operated portability. This updated version also conforms to new audio level standards and has enhanced electronics for higher quality recordings.

COMPONENT 2: PERFORMANCE GEAR

includes: Shure ULX1 wireless lavalier mic system and Mackie HR824 speakers

The performance gear component is based on student requests for items currently not available at CARTAH. A wireless lavalier system was requested several times just this past quarter, both in the context of recording interviews or speakers, or in the context of more experimental performance works. CARTAH also supports several units on campus, for presentation or performance events. We have an amazing set of professional sound equipment, however we often end up borrowing wireless lavalier microphones. By obtaining these sets, we would not only be fulfilling the student requests for the item, but enhancing our ability to provide full technical support for presentations on and around campus.

Speakers have also been a frequently requested item, as with the kind of advanced research in audio processing done in our labs, often off site presentation requires a portable array of speakers. We often support installation or performative works that require a sophisticated speaker array, yet end up temporarily cannibalizing other speaker setups within our facility to meet the demand. We are requesting 12, because although these will most often be used in smaller permutations of 4 and 6, for a presentation of 3-d with the same level of spatial fidelity provided in our 3-d audio lab the setup would require as many.

COMPONENT 3: SOFTWARE SUPPLEMENTS

includes: AudioFile-Engineering Wave Editor, Izotope Ozone, Max/MSP/Jitter, Omnipage Pro 16 & Altova XML Spy

The Software supplementals are meant to fulfill gaps in our current software lineup, in order to provide continuous access to helpful, accessible, and professional tools for students facilitated by our computer laboratory towards the completion of their project or research goals.

The AudioFile-Engineering Wave Editor and Izotope Ozone software packages will provide professional quality audio mixing, editing and mastering, as well as provide interface support various third party plug-ins we currently have in our labs. These 2 software packages also conform to the new 64-bit standard in audio sampling and control, and will provide the student access to these new professional standards.

The Max/MSP/Jitter software is a graphical programming language used for a variety of things, including but not limited to: audio synthesis, algorithmic video manipulation,

mechatronic interfaces. The software has been used previously in the DXARTS core curriculum and is currently available in a dongle-license format, which allows the software to be checked out and used on student's own computers, allows a large range of flexibility of use.

Included with the software supplements component of this proposal, are requests for software that enhances the data capture and archival functions, used largely in the facet of CARTAH research project that have to do with archiving and digitization of ancient or cultural text and image materials. The Omnipage software facilitates the text portion of this. It is a character recognition software used in optimization of scanned documents, in assistance to the archival process. Altova XML Spy is a meta data management software, used regularly by units in the I-school, and would be a great solution for many of these kinds of projects that come through the CARTAH laboratory. XML Spy provides an intuitive interface for creating data structure to better manage large amounts of content for archival work. However, XML Spy is not limited to this use, but may be used in the context of any XML driven art or humanities work.

COMPONENT 4: HARDWARE SUPPLEMENTS

includes: Microtek ScanMaker 1000XL Pro, Epson Expression 10000 XLP, Epson Perfection V750-M Pro, Ricoh SP c811DN color network printer and a Spyder 3 monitor calibrator

In 2001 stf graciously funded CARTAH for the purchase of a large format flatbed scanner and a slide scanner. CARTAH supplemented that proposal, by purchasing a second flatbed scanner to meet the growing need for archival scanner in our institute. Since that time, numerous advances in scanner performance, quality and environmental standards have been tread. We are at the point where this scanner is not meeting the needs of our student client base. CARTAH is also no longer in a nascent format and has developed into a fully outfitted computer laboratory. The demand for scanner time is exceeding our scanning capabilities. Currently the scanners are primarily used for text and image digitization range from the archival of portfolio works, to the archival and digitization of ancient or cultural content. We are requesting 2 large-format scanners, one with an document auto-feeder that will be the new lab workhorses. These will provide high quality imaging for a variety of image and document formats previously unavailable within our research facility. The third scanner will provide faster scans for smaller size documents as well as slides, transparencies and mainly be used for single use scans by clients not involved in larger archival projects.

At CARTAH we currently provide carte blanche printing for our student clientele. CARTAH provides the toner and paper, provided it is not an egregious amount of printing, so that students can print proofs or documents without spending any extra funds. This is something very unique to our unit, as many research units on campus are moving towards pay for print services. The current color workgroup printer we have is stubborn with the new operating systems, not easy to use, requires long print lead time for calibration and is not very environmentally friendly. The current proposal calls for the Ricoh SP c811DN which supports a variety of operating systems and is compliant to modern environmental standards as well as providing far better quality and speed in calibration and print quality as well as ease of use.

For the last portion of this component we are asking for a Spyder 3 Elite Monitor calibration tool. This device has numerous benefits to our facilities and therein the students who work in that environment. Monitor calibration is an important part of maintaining integrity of media format, and absolutely essential in research arenas that involve any kind of color management (e.g. video, imaging, archiving, etc.). CARTAH currently has no solution to this problem, and the spyder is widely the most popular device used in color savvy institutions world-wide.

Student Access

Student access to CARTAH equipment and facilities is provide in concurrence with submission of a project proposal. Typically these are research centered Arts and Humanities ventures, however, we are always looking for interesting ventures outside of our current vista to support. Practically all proposals submitted are accepted. In the case the proposal is not accepted the approval committee issues a statement or questionnaire to the student, addressing the issues and allows for an updated resubmission. Once approved the student has access to the Open Lab, the standard CARTAH inventory and is allowed to make reservations for studio access and training sessions for advanced equipment use. CARTAH provides a full-time technical staff, trained and willing to work with students to learn the tools necessary to complete their projects. Students are also encouraged to submit suggestions and requests for improvements in infrastructure or for various supplemental needs.

CARTAH is also affiliated with the DXARTS program, in that the coursework of the DXARTS is a synergistic training with the equipment and research perspectives of the CARTAH institute. There are a number of dedicated slots in all DXARTS courses for non-majors, as it is our goal to maintain an interdisciplinary perspective with the work we are involved in. Via non-major paths in DXARTS curriculum, another portion of the University community is allowed access to CARTAH facilities beyond the restriction of a research proposal. They may use the equipment for coursework, or for their own independent research, the latter of which is the most often case. CARTAH clients also have access to any DXARTS equipment that is not currently reserved for coursework.

The access can be obtained in a third way, through community performance and involvement. Often, CARTAH clients perform or present their research to the larger student body, or in formats external to the university community. CARTAH clients can also work on projects that require a cohort or students, as is often the case in video productions supported by CARTAH. By doing so, CARTAH's outreach and benefits expand campus-wide, and community-wide, allowing for greater forums of appreciation, understanding and scholarship in the Arts, Humanities and beyond.

Available Resources

CARTAH is part of DXARTS, the Center for Digital Arts and Experimental Media. CARTAH is the gateway for students to most of DXARTS' resources, including not only equipment but

also the expertise and experience of the faculty, students, and staff of DXARTS. CARTAH's ability to leverage the resources of DXARTS has allowed us to provide services that are simply unavailable to the general student body at other institutions. We currently have 3 full-time main campus technical staff, as well as 2 part-time Fremont lab shop managers. We also support workstudy employees and have 2 part-time undergraduate employees that are fully trained to help to facilitate CARTAH projects via technical support and equipment maintenance. We also maintain our own inventory/checkout system as well as provide 24-hour email support.

Installation Timeline

This equipment will be purchased as soon as funds become available.

Departmental Endorsement

CARTAH is an integral part of DXARTS and this proposal is enthusiastically supported by Professor Shawn Brixey, the Director of both DXARTS and CARTAH, and was produced in direct consultation with all the students, faculty and staff of these programs.

Student Endorsement

CARTAH continues to provide access to this equipment to the general student body, with over 200 current student based projects, most of them digital video or digital audio based. A listing of many CARTAH projects can be found at our web site <http://www.washington.edu/cartah>.

As a third year undergraduate and recipient of the DXARTS Undergraduate Research Scholarship, I emphatically support this proposal. As a student of new media arts research, the support of STF sponsorship has been invaluable to both learning and pioneering the most cutting-edge technologies in sonic and performance arts. I am confident that the entirety of equipment listed in this proposal will be well employed under the guidance of faculty and graduate students for both students of the DXARTS department and students from numerous departments across the university as has been confirmed by past support by DXARTS. I am personally very excited to enlist the portable audio equipment for the development of networked sound environments for augmented dance performance in collaboration with graduate students of the Dance Department. This collaboration, sponsored and facilitated by DXARTS, has proven to be a very rewarding engagement in the past, both in encouraging interdisciplinary collaboration across the university as well as developing context-specific technologies for multimedia dance performances. As both a student and member of the DXARTS tech staff, I am committed to ensuring that students take full advantage of the opportunities offered by proposed technical additions in their innovative work that continually propels arts research forward for the University of Washington.

Sincerely, Michael McCrea, BFA Student, Center for Digital Arts and Experimental Media DXARTS

As a 4th year undergraduate student at DXARTS, and an artist interested in audio and performance based installations, I strongly support this proposal. DXARTS has provided me with the unique ability to pursue sound and audio based artwork and research. This is provided in large part by the STF grants in the past that have fueled the forward thinking notions of research and art of the department. I also support this grant as a member of the technical staff that has a well-balanced understanding of the technical demands of the members of this departments, as well as visiting students from all over campus. Every element of this package will undoubtedly be used time and time again by people within and outside the courses taught here. I personally am interested in using many of the sound-recording devices in this package on performative installations I will work on in the future. Thank you for considering this proposal.

Sincerely, Timothy Jared Friend, Undergraduate Student, Center for Digital Arts and Experimental Media DXARTS

As a grad student who managed resource check-out for CARTAH in the past, I can definitely endorse this proposal and see how useful it will be to the continuing success of having a technological resource for the arts and humanities on campus. The equipment will help further realize the digital and archival capacities of CARTAH projects and is an extremely useful asset to have such a check-out facility available to the wider University.

Sincerely, Allison Kudla, PhD Candidate, Center for Digital Arts and Experimental Media DXARTS

Items

Below are the items making up the current proposal. The asterisk (*) beside items signify that they were approved by the committee. This however was not implemented correctly for our database before 2005, so earlier years may not show this.

Click an item's title to view details on that item, or [show all item details](#).

Title	Type	Price	Qty	Subtotal
* Zoom H2 Handy Recorder	audio/video-hardware	\$220.00	10	\$2,200.00
Location: Raitt Hall - 132				
Description: Portable 4-channel recorders with on-board 4 way mic.				
Justification: These devices will provide upgraded abilities (4-channel and ambisonic) and quality levels for student field recordings and interviews, without the need for replaceable media or external microphone. Replaces our fleet of obsolete minidisc recorders.				
* Zoom H4 Handy Recorder	audio/video-hardware	\$330.00	5	\$1,650.00
Location: Raitt Hall - 132				
Description: Portable 4-channel recorders with on board stereo mic and xlr inputs for external mics.				
Justification: These devices will provide upgraded abilities (multi-channel, portable) and quality levels for student field recordings and interviews, without the need for replaceable media or external microphone. Replaces our fleet of obsolete DAT recorders.				
* Pelican Micro Cases	misc-equipment	\$30.00	15	\$450.00
Location: Raitt Hall - 132				
Description: Cases for the Zoom handy Recorders				
Justification: Will provide for safe transport and storage of the zoom handy recorders.				
* Sandisk 2G SD	memory/ram	\$55.00	30	\$1,650.00
Location: Raitt Hall - 132				
Description: 2 gigabyte SD cards for the zoom handy recorders.				
Justification: Provides additional dedicated storage capacity for the zoom handy recorders, so students don't have to go and buy their own.				
* Edirol Video R-4	audio/video-hardware	\$1,308.00	2	\$2,616.00

Location: Raitt Hall - 132

Description: High end portable audio recorder. Supports 4-channels.

Justification: These devices will provide extended abilities (4-channel and ambisonic) and quality levels for student field recordings and interviews without the need for replaceable media with substantially better pre-amps than the smaller models.

* Edirol Video R-4 Pro	audio/video-hardware	\$2,180.00	1	\$2,180.00
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Location: Raitt Hall - 132

Description: High end portable audio recorder. Supports 4-channels and SMPTE Time code for syncing to video and other sources.

Justification: This device will provide extended abilities (4-channel and ambisonic) and quality levels for student field recordings, video projects and interviews without the need for replaceable media with substantially better pre-amps than the smaller models.

* R-4 Hard Case	misc-equipment	\$220.00	3	\$660.00
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Location: Raitt Hall - 132

Description: Hard Case for the R-4 portable recorders.

Justification: Will provide for safe transport and storage of the R-4 portable recorders.

* Sandisk Ultra II 4G Compact Flash	memory/ram	\$105.00	6	\$630.00
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Location: Raitt Hall - 132

Description: 4G Compact Flash cards for the R-4 portable audio recorders.

Justification: Provides additional dedicated storage capacity for the R-4 portable recorders, so students don't have to go and buy their own.

* Sennheiser K6 Power Module	audio/video-hardware	\$272.00	5	\$1,360.00
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Location: Raitt Hall - 132

Description: Base module for the Sennheiser Mic kits.

Justification: Provides student access extra units for recording with the new fleet of portable audio recorders that can use external microphones.

* Sennheiser ME66	audio/video-hardware	\$240.00	5	\$1,200.00
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Location: Raitt Hall - 132

Description: Shotgun capsule for the K6 Microphone.

Justification: Extends recording type capabilities to the K6 microphones.

* Sennheiser ME64	audio/video-hardware	\$170.00	5	\$850.00
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Location: Raitt Hall - 132

Description: cardioid capsule for the K6 Microphone.

Justification: Extends recording type capabilities to the K6 microphones.

* Sennheiser ME62	audio/video-hardware	\$160.00	5	\$800.00
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Location: Raitt Hall - 132

Description: Omni capsule for the K6 Microphone.

Justification: Extends recording type capabilities to the K6 microphones.

* K6 Hard Case	misc-equipment	\$35.00	5	\$175.00
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Location: Raitt Hall - 132

Description: Hard case for K6 mic kit

Justification: Will provide for safe transport and storage of the K6 Mic kits.

* Kensington Carrying Case	misc-equipment	\$25.00	5	\$125.00
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Location: Raitt Hall - 132

Description: Soft Carrying case with handle for k6 mic kits

Justification: Will provide a larger carrying case so cabling can be included in the mic kits.

* 20ft XLR	audio/video-hardware	\$30.00	5	\$150.00
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Location: Raitt Hall - 132

Description: Mic Cable

Justification: To be included as provided cabling for the K6 mic kits.

* 5ft XLR to mini	audio/video-hardware	\$13.00	5	\$65.00
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Location: Raitt Hall - 132

Description: mic cable to mini jack

Justification: Provides adapter for mini plug recording for k6 mic kits.

* Mic Clamp	audio/video-hardware	\$40.00	5	\$200.00
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Location: Raitt Hall - 132

Description: Clamp for mounting k6 mics with standard mic booms and stands.

Justification: Part of the k6 mic kits for mounting the mic to stands and booms.

* Shure ULX1 Transmitter	audio/video-hardware	\$220.00	2	\$440.00
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Location: Raitt Hall - 132

Description: Wireless transmitter for wireless mic system.

Justification: Will provide a wireless and wearable package for remote recordings, presentations and/or interviews. This is a student requested item.

* Shure ULXP4 Receiver	audio/video-hardware	\$622.00	2	\$1,244.00
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Location: Raitt Hall - 132

Description: Receivers for the ULX1 Transmitters.

Justification: Will provide the ability to use the ULX1 Transmitters with a recording or presentation setup. This is a student requested item.

* Shure ULX1 Lav Mic	audio/video-hardware	\$108.00	2	\$216.00
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Location: Raitt Hall - 132

Description: Lav Mics for the ULX1 Receivers.

Justification: These mics will be used with the ULX1 receivers. This is a student requested item.

* Pelican Cases for Wireless Mic Kits	misc-equipment	\$250.00	2	\$500.00
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Location: Raitt Hall - 132

Description: Hard Cases for the ULX1 Wireless Mic Kits.

Justification: Will provide for safe transport and storage of the ULX1 Wireless Mic Kits.

* Mackie HR824 Speakers	audio/video-hardware	\$653.00	12	\$7,836.00
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Location: Raitt Hall - 132

Description: Presentation quality speakers

Justification: These speakers will be added to our checkout system, so that students may use them outside of our labs for various projects, including installations or presentations. There are 12, because in some cases, our audio formats used in certain experimental audio productions require 12 for 3D sound recreation.

* Audiofile Engineering Wave Editor	software-discipline-specific	\$273.00	25	\$6,825.00
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Location: Raitt Hall - 129

Description: Audio Editing and Mixing Software.

Justification: Will provide a GUI solution for student audio editing and mixing.

* Izotope Ozone Mastering Software	software-discipline-specific	\$220.00	25	\$5,500.00
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Location: Raitt Hall - 129

Description: Audio Mastering Software

Justification: Will provide students with professional quality audio mastering software, with an intuitive interface.

* Max/Msp/Jitter	software-discipline-specific	\$510.00	25	\$12,750.00
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Location: Raitt Hall - 132

Description: Graphical programming software for audio, video and mechatronic art and installations.

Justification: This is a high demand item. We will use these as checkout-able licenses, so students can temporarily use the software for projects outside of the labs. This is a student requested item.

* iLok Dongles	software-misc	\$45.00	25	\$1,125.00
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Location: Raitt Hall - 132

Description: USB dongles for remote software licensing

Justification: This will allow us the ability to checkout various software licenses to students for their projects.

* Microtek ScanMaker 1000XL Pro	scanner	\$2,640.00	1	\$2,640.00
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Location: Raitt Hall - 129

Description: Large format color flatbed scanner

Justification: Will greatly improved our lab's efficiency and quality of scanning for student work.

* Epson Expression 10000XLPH	scanner	\$2,973.00	1	\$2,973.00
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Location: Raitt Hall - 129

Description: Large format color scanner, with auto feeder.

Justification: Will greatly improved our lab's efficiency and quality of scanning for student work. Also adds auto-feeding capabilities to our lab.

* Ricoh SP c811DN Workgroup Printer	printer	\$3,943.00	1	\$3,943.00
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Location: Raitt Hall - 129

Description: High Quality Color Network Printer

Justification: At CARTAH we allow all our CARTAH clients access to free printing. We provide the ink and paper refills at no cost to the students. This will greatly upgrade our current color printing situation, as well as provide a much greener solution than the one currently in place.

* Sony MDR-7506 Headphones	audio/video-hardware	\$109.00	25	\$2,725.00
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Location: Raitt Hall - 132

Description: Studio quality Monitoring Headphones

Justification: Will be available for use with the portable audio gear or for in studio work. Provides the ability for externally quiet monitoring with a moderate level of fidelity.

* Omnipage Pro 16	software-discipline-specific	\$550.00	3	\$1,650.00
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Location: Raitt Hall - 129

Description: Character Recognition Software

Justification: Will be using in concert with our scanners in the CARTAH lab to provide character recognition scanning for document optimization and archiving.

* Altova XML Spy	software-discipline-specific	\$1,524.00	1	\$1,524.00
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Location: Raitt Hall - 129

Description: XML editing and data management software.

Justification: Provides the capabilities to manage large databases of meta-data information simply. For archival projects.

* Colorvision Spyder 3 elite	misc-equipment	\$340.00	1	\$340.00
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Location: Raitt Hall - 132

Description: Monitor Calibration System

Justification: Will allow our maintenance team to perform continual monitor calibrations to ensure high quality image fidelity across our labs.

* ST350 Portable Soundfield System	audio/video-hardware	\$7,580.00	1	\$7,580.00
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Location: Raitt Hall - 132

Description: High End Ambisonic Mic Kit

Justification: Provides a high quality recording solution, for 3-dimensional audio recordings.

* ST350 Battery Kit	audio/video-hardware	\$682.00	1	\$682.00
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Location: Raitt Hall - 132

Description: Battery Kit for Soundfield Mic

Justification: Allows for portable capabilities in using the ST350 mic kit.

* ST350 Rycote Kit	audio/video-hardware	\$1,472.00	1	\$1,472.00
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Location: Raitt Hall - 132

Description: Blimp and boom kit for the Soundfield mic

Justification: Will provide field protection, wind screen, and extension arm capabilities to the ST350 kit.

* Epson Perfection V750-M Pro	scanner	\$810.00	1	\$810.00
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Location: Raitt Hall - 129

Description: Fast Photo Quality Flatbed Scanner

Justification: Will provide a fast High-quality option for smaller format media scanning in our labs.

* RME Fireface 800	audio/video-hardware	\$1,635.00	2	\$3,270.00
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Location: Raitt Hall - 132

Description: 56 Channel Firewire Audio Interface

Justification: This item will allow students to perform large scale recordings with either studio machines or their personal laptops.

* Pelican Case for ST350	misc-equipment	\$250.00	1	\$250.00
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Location: Raitt Hall - 132

Description: Pelican case for soundfield mic kit

Justification: Will provide transport and storage protection for the ST350 mic kit.

Requested Total:	\$83,256.00
Approved Total:	\$83,256.00
Funding Status:	Fully Funded

Comments

 [Add Comment](#)

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 No comments have been posted for this proposal yet.

