

# INSTRUCTIONAL EQUIPMENT REQUEST 2016-2017

Internal Use

IE #: Fall 12

Total \$: 13,611.50

Requester Name: ALEJANDRO GALINDO Division Name: A&H

## SECTION 1: SUMMARY INFORMATION

### Brief Title of the Request:

REPLACEMENT OF DATED RADIO EQUIPMENT FOR RADIO LAS POSITAS

Equipment Location Building: ARTS BUILDING Room: 4137, 4139

## SECTION 2: EQUIPMENT DESCRIPTION

The equipment is:  A Replacement  An Upgrade  New Equipment/Technology

Describe the specific equipment requested and how it will be used to replace, upgrade or provide new technology to LPC from what is currently in place:

Radio Las Positas respectfully requests the replacement of dated equipment in both the Air Booth (Room 4137) and Recording Studio (Room 4139). Specifically, we ask for the replacement of the following instructional equipment:

1. The sound board. A new digital board will be easier to use, more compact, and easier to maintain. It will also be similar to what students will encounter in the labor market. Students will get a better educational experience and we will better prepare them for their future jobs.
2. A new on air computer. Our computer is old and it easily gets overwhelmed by our normal demands. We have experienced loss of audio files, which are irreplaceable. A new computer, capable of handling new audio software will solve problems of reliability and allow students to record more shows and with better quality.

3. A new server in the Recording Room. Currently, we are using a left-behind computer from a previous program but our demands, as Radio Las Positas continues to grow, the server has shown that it cannot handle the 24/7 digital streaming that we require. A new computer will ensure that the

If applicable, describe the legal requirement, mandate, or safety concern for purchase of this equipment, making specific reference to the legal requirement or regulation:

There are safety concerns related to this request. One, the existing sound board was donated by a faculty several years ago and it has not been maintained since then. It shows modifications made by the prior owner and although it has not given us reason to worry, it's impossible to predict how these modifications measure against current safety standards.

Second, some of the equipment (particularly in room 4137) shows damage caused by rodents. As we may have to remove said equipment from the room, we believe that this request presents us with an opportunity to modernize our equipment.



## **SECTION 3: LPC MISSION STATEMENT AND LPC PLANNING PRIORITIES**

### **LPC MISSION STATEMENT:**

LPC is an inclusive learning-centered institution providing educational opportunities and support for completion of students' transfer, degree, basic skills, career-technical, and retraining goals.

### **LPC PLANNING PRIORITIES:**

- ❖ Establish regular and ongoing processes to implement best practices to meet ACCJC standards.
- ❖ Provide necessary institutional support for curriculum development and maintenance.
- ❖ Develop processes to facilitate ongoing meaningful assessment of SLOs and integrate assessment of SLOs into college processes.
- ❖ Expand tutoring services to meet demand and support student success in Basic Skills, CTE, and Transfer courses.

**Specify how the equipment supports LPC's Mission Statement and Planning Priorities:**

Radio Las Positas is a student-run organization. Students are in charge, as they perform many of the functions of an ordinary radio station. RLP provides internships for students interested on positions of leadership within the radio industry. In RLP, the students are first and foremost, the role of the instructor being that of radio advisor.

## **SECTION 4: EDUCATIONAL ITEMS – PROGRAM REVIEW**

**Specify the educational programs this equipment supports:**

This equipment will support directly Radio Las Positas, the only Las Positas College radio station, streaming 24/7 on the Internet, and covering campus events and Las Positas news. It will also support MSCM 32A and 32B courses, Intro and Intermediate Radio Production, both Mass Communication courses, and eligible for Radio Certificate. Radio Las Positas also hosts public events on campus and is home to Radio Club.

**If this equipment is included in your Program Review, please include the exact wording. If equipment is not included, explain why:**

Program Review is not available at this time.

## **SECTION 5: TEACHING AND LEARNING**

**Describe in detail the impact this equipment will have on teaching:**

Updated radio equipment will allow me to teach students new and current recording and editing techniques. With updated software and a reliable computer, they will be able to improve the level of digital editing, and audio engineering. Similarly, students will have the opportunity to practice in modern equipment, similar to what they will likely encounter during their professional careers.

**Describe in detail the impact this equipment will have on learning:**

The students will learn more relevant skills because they will log in hundreds of hours of practice in a modern mixing board, similar to the one which student would operate at a radio station. The student will also learn top of the line editing and recording software, which will increase their professional marketability. Similarly, because the new equipment will be simpler and more compact, the students will be trained on how to transport and set up a broadcasting mobile station, a trend more and more

**Each academic year, this equipment will impact:** 4 # of classes/sections 60 # of students



## **SECTION 6: OUTCOMES (SLOs)**

**Using your documented SLOs, specify how the equipment will enable student learning outcomes to be achieved?**

Students will use this equipment in every class. They will practice using this equipment in the creation and production of their radio shows, their interviews, their promos, all of their recording and editing. This equipment is central to all activity during lab time. It is imperative that we provide the students with meaningful learning experiences. Currently, we are not being able to provide students exposure to new techniques, and new technologies. With new equipment, we will be able to train students in the skills necessary to succeed professionally.

**What are the consequences related to learning outcomes if request is not funded?**

We are currently teaching students to produce radio the way it used to be produced in the past. Modernly, radio production has moved to digital platforms, as such, radio has become easier, more accessible to everyone. There are many opportunities for the new waves of podcasters. We must allow opportunities to learn and practice in new equipment, more mobile, and easier to network with. Our current equipment does not have any of these characteristics.

## **SECTION 7: TOTAL COST OF OWNERSHIP (FINANCIAL & SUSTAINABILITY)**

**What is the potential life span of the requested equipment?**

10 to 20 years, if properly used.

**If new storage is needed, describe the storage, location, and costs: (Specific storage costs should be detailed in the "Part A: Initial Start-up Costs" section below.)**

No storage needed.

**What will be required to maintain the equipment, such as regular servicing or upkeep? (Specific on-going costs should be detailed in the "Part B: On-Going Annual Operating Costs" sections below as applicable.)**

No extra cost to maintain the new equipment.

**Explain how this equipment meets or exceeds basic sustainability efforts and/or provides renewable resources to the college:**

New equipment will utilize less electricity because it does not need to be on at all times. Also, modern equipment do not tend to overheat as much as old equipment, thus, the temperature in the room can be adjusted to save energy.



**Part A: Initial Start-up Costs**

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Equipment or Materials	11,700	New sound board: \$1,200; new On Air computer: \$4,500, new server: \$6,000;
Taxes (9.5%)	1,111.50	
Shipping or Delivery Charge	0	
Installation Costs *	0	
Miscellaneous Costs:	800	New audio cables, and power regulators.
Facilities Modifications		
Operator Training		
Maintenance & Repair Training		
Other: _____		
Vendor Discount		
<b>Grand Total:</b>		13,611.50

**Part B: On-Going Annual Operating Costs**

<u>Item</u>	<u>Cost</u>	<u>Comments</u>
Annual Service or Maintenance		
Estimated Parts Replacement Per Year		
Outside Standardization or Calibration Costs		
Storage Costs		
New Supply Costs		
Miscellaneous Costs:		
Maintenance & Repair Labor		
Other: _____		
<b>Annual Operating Costs:</b>		

Indicate the source of funding for on-going annual operating costs:





**Part C: Incremental Labor Costs**

**OPERATOR:**

Indicate the key operator: ALEJANDRO GALINDO and students

Is this in their current scope of duties? Yes

Indicate cost to train key operator (include in Initial Start-up Costs above): 0

Indicate amount of time per month key operator will use equipment: In Studio equipment: 30 hrs min.

**MAINTENANCE & REPAIRS:**

Indicate the person performing maintenance and repairs: IT

Is this in their current scope of duties? Yes

Indicate cost to train for maintenance and repairs: n/a

Indicate amount of time per month maintenance will be required: 2 hours per year.

**SECTION 8: APPROVALS**

Funded requesters will be expected to respond to a brief RAC feedback survey by a requested deadline. Requests for computer-related equipment and printers must be reviewed by the LPC IT Department.

**Signatures:**

A. GALINDO  
Requester

8/17/2016  
Date

IT Department (if required)

Date

[Signature]  
Dean/Manager

10/17/16  
Date

[Signature]  
Vice President

10/24/16  
Date





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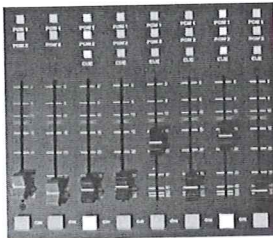
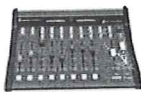
**Audioarts Air 1 USB**  
8-Channel Audio Console with USB  
BSW PART: AIR1

SHARE

**IN STOCK!**



Model Over 70000



Audioarts breaks the price barrier with this small-station console. The 8-channel Air 1 USB is exactly what you need for on-air radio, newsrooms, and even production and webcasting.

8 Input Faders - 6 Stereo Input Channels, 2 Microphone Input Channels, 2 Stereo Program Buses. Bi-directional USB Audio Port. Control Room and Headphone Monitor feeds, Selectable Control Room Monitor muting logic, Large VU meter pair with peak indicators, Internal Cue Speaker and On-Air tally display.

Also includes: Power Supply & Operation & Installation Manual.

The Air 1 USB offers a low profile in a rugged design and a small footprint to fit on any work surface. If you're looking for an affordable console, look no further, Audioarts' got you covered. BSW also has it at the lowest price in the industry. Call us for a quote today!

**Audioarts Air 1 USB Features:**

- Dual program buses, which can be stereo or mono sum
- Cue bus can automatically interrupt main monitor when activated
- Switched meter pair displays PGM 1, PGM 2 or EXT
- Monitor source selector: PGM 1, PGM 2 or EXT
- Separate control room monitor and headphone outputs
- Long-throw faders on inputs and monitors
- Dual, super-quiet, high performance microphone preamps
- LED illumination on all switches
- Built-in headphone amplifier with +20dB output
- ON-AIR indicator lights when an input channel is ON and assigned to PGM 1
- Bidirectional USB audio port for convenient interfacing to computers and automation systems.
- Dimensions: 20.00 in. (50.80 cm) Wide x 16.00 in. (40.65 cm) Depth x 7.00 in. (17.78 cm) High. 12 lbs (5.45 Kg)

[Click here to read Radioworld's Alan R. Peterson's review of the Air 1.](#)

[Click here for a copy of the Air 1 USB Technical Manual.](#)

List Price: \$2,195.00

**\$1,899.00**

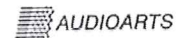
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12 Channel Broadcast Console



**Audioarts Air 5** \$3799.00  
16CH Bluetooth Compatible Broadcast Console



**Tieline VIA Portable Codec** 4,995.00  
Portable Codec with USB/Wi-Fi & Hardcase



**Wheatstone AIRAURA-X1** \$5599.00  
FM/HD Broadcast Processor

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**Mackie Mixer Buddy Package** \$499.00  
Mixer Control Package





### AIR 1 Performance Specifications

**FREQUENCY RESPONSE**

Line, 20Hz	-0.05dB
Line, 20kHz	-0.05dB
Mic, 20Hz	-0.10dB
Mic, 20kHz	-0.10dB

**DYNAMIC RANGE**

Line, unity gain	116dB
Mic, 54dB gain	99dB

**S/N RATIO (ref +8dBu)**

Line	93dB
Mic	82dB

**NOISE**

Mic EIN	-128
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**THD+N (20Hz-20kHz)**

Line, +12dBu	<0.003%
Mic (1kHz), +24dBu	<0.02%

**IMD (SMPTE)**

Line, +4dBu	<0.006%
Mic, +24dBu	<0.006%

**DIM**

Line, +24dBu	<0.002%
Mic	<0.006%

**MAXIMUM INPUT**

Line	+28dBu
Mic, minimum trim	-4dBu

**MAXIMUM OUTPUT**

Line	+28dBu
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**HEADROOM**

+4dBu	24dB
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**SLEW RATE**

12V/ $\mu$ s
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**BUS CROSSTALK**

1kHz	-100dB
20kHz	-96dB

**STEREO SEPARATION**

1kHz	-95dB
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**OFF ISOLATION**

1kHz	-116dB
20kHz	-100dB

**MAXIMUM GAIN**

Line	+20dB
Mic	+77dB

**PHASE RESPONSE**

Line, 20Hz-20kHz	$\pm 12^\circ$
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**DIMENSIONS**

Width	15.195"
Depth	11.511"
Height (rear)	2.442"
Height (front)	1.283"





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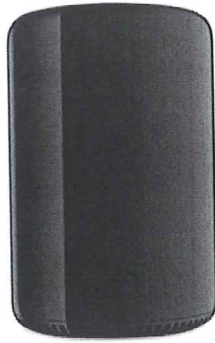






# Mac Pro

[Overview](#) [Performance](#) [Tech Specs](#)



View gallery

## Mac Pro



3.5GHz 6-core with 12MB of L3 cache  
 16GB (4x4GB) of 1866MHz DDR3 ECC  
 256GB PCIe-based flash storage  
 Dual AMD FirePro D500 GPUs with 3GB of GDDR5 VRAM each  
[User's Guide \(English\)](#)

### Processor

Which processor is right for you?

- 3.5GHz 6-core with 12MB of L3 cache
- 3.0GHz 8-core with 25MB of L3 cache + \$1,500.00
- 2.7GHz 12-core with 30MB of L3 cache + \$3,000.00

### Memory

How much memory is right for you?

- 16GB (4x4GB) of 1866MHz DDR3 ECC
- 32GB (4x8GB) of 1866MHz DDR3 ECC + \$400.00

Get help buying.  
chat online

Pickup:  
Check availability

Order by 5pm, delivers:  
 Tomorrow – Fastest  
 Wed Oct 19 – Free  
 Delivery options for  
 94550<sup>††</sup>

**\$3,999.00**  
 Up to 18 months of special financing

Select



### Capacity

How much storage is right for you?

- 256GB PCIe-based flash storage
- 512GB PCIe-based flash storage + \$300.00
- 1TB PCIe-based flash storage + \$800.00

### Graphics

Show more

- Dual AMD FirePro D500 GPUs with 3GB of GDDR5 VRAM each
- Dual AMD FirePro D700 GPUs with 6GB of GDDR5 VRAM each + \$600.00

### Mouse or Trackpad

Show more

- None
- Magic Mouse 2 + \$79.00
- Magic Trackpad 2 + \$129.00
- Apple Mouse + \$49.00

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Delivery options for  
94550<sup>††</sup>

\$3,999.00  
Up to 18 months of special financing

Select



None

### Pre-Installed Software

Final Cut Pro X  
Show more

None	Final Cut Pro X + \$299.99
------	-------------------------------

Logic Pro X  
Show more

None	Logic Pro X + \$199.99
------	---------------------------

\*Subject to credit approval. Minimum purchase required. [See Terms](#)

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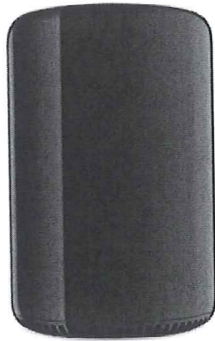
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# Mac Pro

[Overview](#) [Performance](#) [Tech Specs](#)



View gallery

## Mac Pro



**3.0GHz 8-core with 25MB of L3 cache**

16GB (4x4GB) of 1866MHz DDR3 ECC

256GB PCIe-based flash storage

Dual AMD FirePro D500 GPUs with 3GB of GDDR5 VRAM each

[User's Guide \(English\)](#)

### Processor

Which processor is right for you?

3.5GHz 6-core with 12MB of L3 cache

- \$1,500.00

3.0GHz 8-core with 25MB of L3 cache

2.7GHz 12-core with 30MB of L3 cache

+ \$1,500.00

### Memory

How much memory is right for you?

16GB (4x4GB) of 1866MHz DDR3 ECC

32GB (4x8GB) of 1866MHz DDR3 ECC

+ \$400.00

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Oct 24 - Oct 26 - Free  
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### Capacity

How much storage is right for you?

- 256GB PCIe-based flash storage
- 512GB PCIe-based flash storage + \$300.00
- 1TB PCIe-based flash storage + \$800.00

### Graphics

Show more

- Dual AMD FirePro D500 GPUs with 3GB of GDDR5 VRAM each
- Dual AMD FirePro D700 GPUs with 6GB of GDDR5 VRAM each + \$600.00

### Mouse or Trackpad

Show more

- None
- Magic Mouse 2 + \$79.00
- Magic Trackpad 2 + \$129.00
- Apple Mouse + \$49.00

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None

### Pre-Installed Software

Final Cut Pro X  
Show more

None	Final Cut Pro X + \$299.99
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Logic Pro X  
Show more

None	Logic Pro X + \$199.99
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## FEATURED PRODUCT

**M-8Dx**

(product.php?div=01&id=M-8Dx)  
Advanced Rack Mount  
Power Conditioner

(product.php?div=01&id=M-8Dx)

- Spike & surge protection, as well as RFI/EMI noise filtration
- Two retractable, incandescent lights with dimmer
- Digital voltmeter displays incoming line voltage
- 15 amp rating, 9 outlets

**PL-PRO DMC**  
**POWER CONDITIONER with VOLTMETER / AMMETER**



## Features

### Surge Protection

Furman's exclusive SMP technology provides the highest level of surge & spike protection available.

### Noise Filtration

LiFT offers AC power filtering to ensure clean power for unequaled audio & video clarity.

### Voltage Protection

Advanced EVS circuitry detects dangerous voltage irregularities and safely powers down itself and connected equipment in unsafe conditions.

### Pull-out Lights

Dual smooth track retractable LED lights illuminate equipment in your rack.

### Diagnostic Lights

LED status indicators warn you when voltage is outside of nominal range or when protection has been compromised.

### USB Charger

Front panel convenience charger allows you to charge most media devices or power a USB lamp.

### Voltmeter / Ammeter

Large digital voltmeter / ammeter, with discrete dimmer button, displays line voltage and true RMS current draw.

### Isolated Banks

\$130 x 2



Isolated outlet banks minimize inter-component interference and noise contamination.

## Wall Wart Spacing

Three widely spaced outlets accommodate bulky AC power transformers.

## 20 AMP Rating

20 Amp rating featuring a high inrush magnetic circuit breaker for added protection.

## Nine Total Outlets

Nine total outlets (8 rear panel outlets and one front panel convenience outlet).

## BNC Lamp Connector

Rear panel BNC connector powers any standard gooseneck lamp for rear rack illumination.

---

## Description

The Classic Series from Furman brings together superior protection and outstanding performance in a sturdy, rack-mountable design. The Classic Series features Furman's revolutionary Series Multi-Stage Protection (SMP), Linear Filtering Technology (LiFT), and Extreme Voltage Shutdown (EVS). Together, these technologies comprise what is, without question, one of the world's most advanced and comprehensive transient voltage surge suppressors.

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## Applications

### Instrument Rigs

You've got a rack for your effects, preamps, tuner...You're going to plug that into the wall? One big spike and your rig is up in smoke. Furman's advanced Series Multi-Stage Protection defends your gear from the spikes and surges that are so common at gigs and practice spots. With Furman's





advanced Linear Filtering Technology, you'll get a quieter tone without pops, crackles, and the local radio station coming out of your amp.

## Recording

Can't track down where that noise is coming from? Your mix sounding flat? With Furman's advanced Linear Filtering Technology you'll lower the noise floor caused by the dirty AC power coming into your console or DAW. Furman's advanced advanced Series Multi-Stage Protection keeps your sensitive digital equipment from acting funny or burning up due to everyday spikes and surges. With a 15A capacity and eleven total outlets, it's enough to power your whole home studio.

## DJ Equipment

Bars, clubs and other event venues have some of the worst power out there - from air compressors turning on and off to light shows pulling current loads up and down, the AC power can be a strain on the circuits in your rig. Furman's advanced Series Multi-Stage Protection and LiFT keeps the bad stuff out and the dual pull-out front panel lights let you discreetly see your board and gear without distracting from the show on the dance floor.

## Pro Audio

When you're out there gigging, you never know what kind of power you're going to get. The wear and tear on mobile rigs eventually takes its toll - that's why it's smart to plug into Furman's advanced Linear Filtering Technology. It keeps your equipment safe and sounding clean. Whether you're setting up a show at the local club or powering up the church band for their next service, make sure you give them power they can trust.

- (<http://www.panamax.com/>)
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