

Student Technology Fee Revenue Allocation Process



2018-19 Coversheet Technology Fee Letter of Intent

Contact information for the individual leading the project: Name: Katherine Garner Phone: (850) 644-4588 Email: kgarner@bio.fsu.edu
Unit or organization submitting the letter of intent: Department of Biological Science
Title of the project: Classroom and Conference Room Media Upgrade
Scope of the project - annual number of students, majors and/or courses affected by this project This project will affect approximately 15,000 biology students, 66 courses and 3 majors (Biology, Nursing, Exercise Science).
Estimated cost (budget justification and cost breakdown are not required at the letter of intent stage) \$95,349.43
Estimated project completion date: August 15, 2019

Please attach a brief overview of the proposed project that describes (1) the nature of the project / what will be done, (2) the impact of the project on instruction and / or learning, and (3) the names and titles of the individuals who will complete the project.

2018-19 Student Technology Fee Proposal
Classroom and Conference Room Media Upgrade
Department of Biological Science

PROJECT DESCRIPTION

The Department of Biological Science maintains eleven conference rooms in the King Life Sciences building, Bio Unit I and MCH building. Currently the conference rooms contain projectors but no other media equipment. Most of the projectors were installed when the KIN building was constructed seven years ago. The classrooms in the KIN and Unit I building also are using almost ten year-old projectors. Image quality from these projectors is frequently a complaint. The projectors are only 800x600 and require VGA input, the projectors in the proposal will be WUXGA and connected via HDMI, resulting in better image quality and easier, more reliable connectivity. Image presentation is a significant part of instruction in Biology, it's important for instructors to be able to show clear images while teaching. The information in the images utilized by Biology instructors is sometimes fuzzy by nature or by limitation of the microscopes, etc. This makes high quality image presentation even more important.

Biology's conference rooms are frequently utilized for teaching purposes including small lectures and group projects. Biology has a portable teleconferencing setup for the conference rooms that is constantly in demand and sometimes double booked. It is used to defend dissertations, lectures, and doing interviews with potential candidates and students. It is wheeled between conference rooms, conferences are interrupted, postponed, etc. to retrieve it. Teleconferencing is increasingly important to Biology and Biology would greatly benefit from having teleconferencing equipment readily available in each conference room. Please see accompanying documentation regarding use of conference rooms by instructors.

This proposed project would fund the cost of

- Upgrading the 9 Biology conference rooms with UHD monitors, teleconferencing active speaker camera and computer.
- Upgrading the 17 Biology classrooms with WUXGA projectors.

IMPACT ON INSTRUCTION

Based on last year's enrollment, this project will affect more than 15,000 students, 66 courses and 3 majors (Biology, Nursing, Exercise Science).

PROJECT PLAN

The Project Team (see below) will assemble, configure and maintain the conference room equipment and install and maintain the projectors.

RELATIONSHIP OF THIS PROJECT TO OTHER UNIVERSITY ACTIVITIES

Because Biology reaches other majors, the upgrade of this equipment would not only benefit biology, but departments as well. Other departments also frequently use our conference rooms because of collaborative efforts between faculty.

COST OF ONGOING SUPPORT

Estimated maintenance cost is \$1000 per year for first 5 years. The Department would be responsible for these costs, should they arise.

PROJECT TEAM

Alex Stuy (Technology Specialist), Kyle Hawkins (Technical Support Analyst), and Josh McCoy (Technical Support Analyst), Joe Faragasso (Instrument Maker Designer), Ralph Anderson (Technical/Research Designer), Katherine Garner (Budget Manager)

BUDGET

\$95,349.43 See Classroom and Conference Room Media Upgrade Budget 2018-2019.xlsx.

Quotes: Conference Room Proposal Quote _ B&H Photo Video.pdf, Class Room Computer Proposal Quote _ B&H Photo Video.pdf, Epson Bright Futures Price Quotes.pdf

Classroom and Conference Room Media Upgrade Letters in Support 2018-2019

On 10/23/2018 3:21 PM, Karen McGinnis wrote:

Alex,

I use projected images in every lecture I teach for PCB3063 General Genetics and BOT 4503 Plant Physiology. This includes instructive diagrams, text and practice problems. Often these images are detailed, and color coded. High resolution, quality color projection is key, and many of our current projectors are lacking in this regard.

Thanks for you initiative on this,
Karen McGinnis

On 11/5/2018 4:32 PM, Tom Miller wrote:

Alex,

I use the conference rooms in three or four ways, all of which could greatly benefit from better AV.

– Most importantly, I teach small classes in the conference rooms. For example, next semester I will teach a graduate class in Community Ecology in King 4009. However, the screen in this room is in a poor location, the projector often doesn't work properly (colors are wrong), and the built-in cabling through the walls hasn't worked in a couple of years, so cables hang in the way directly down from the project. Better AV would really help teaching.

– We run weekly reading groups (BSC 5932 courses) in all the conference rooms. These are critical for graduate and undergraduate training, where there is open discussion of research and research ideas, often using AV.

– Finally, we often go to the conference rooms just to work out ideas in small groups. Having AV to work out ideas is very useful, especially when covering issues of experimental design, statistics, or coding.

Tom Miller

On 12/7/2018 11:13 AM, Hengli Tang wrote:

Hi Alex:

Upgrades to conference and classroom AV equipment will greatly improve the learning experience of the students and be highly appreciated by both instructors and students. Thank you for your initiative.

-- Hengli

On 12/7/2018 11:16 AM, Qian Yin wrote:

Hi Alex,

My students from Immunology class (PCB 4233, ~ 70-80 students) would certainly benefit from projector upgrade in KIN as that would enable them to see clearly of the organ/tissue/structures. Teleconferencing equipment in conference rooms is another plus. Talking to collaborators would be much easier.

Best wishes,
Qian

On 12/7/2018 12:12 PM, Beth Stroupe wrote:

Dear Alex,

I am writing in strong support for your proposal to upgrade the projectors in King and Bio Unit 1. The technology equipment in our classrooms, in particular in BIO, are out of date and it negatively impacts the students during class because it is difficult for students to see the details on the slides. I use the double projectors to show slides and help the students take notes in outline form and the second projector in BIO is almost useless because its colors are not true. Furthermore, it is horribly spliced into the system so it is nearly impossible to use.

Thank you for your efforts at bringing BIO up to the 21st century!

Beth

On 12/7/2018 12:40 PM, Paul Trombley wrote:

Hi Alex,

I'd like to express my support for your proposal to upgrade the conference rooms. I often use these rooms for student instruction which frequently requires high definition projection capabilities to be able to discern the details in experimental data (histology for example).

Thanks for your effort with this,

Paul

Paul Trombley, Ph.D.
Associate Professor of Biology and Neuroscience
Program in Neuroscience
Department of Biological Science
Florida State University
319 Stadium Drive
3011 King Life Science Building
Tallahassee, FL 32306

On 12/7/2018 11:28 AM, Hank W. Bass wrote:

Alex,

This is a letter for support for your application to replace aged or low-resolution projectors with high-res TVs and teleconference equipment. I use the new TV video in the conference room for teaching every week. We use it during our weekly research meetings where graduate and undergraduate students present findings and demonstrate online resources such as genome browsers, databases, and google drive docs.

We also use it to teach scientific writing where the screens project documents we co-edit in real time with those present and some connecting remotely. The bright, high resolution screens are also ideal for high-density documents and our microscopy imaging, where the dataset are images collected by digital cameras.

I fully support upgrading to meet the demands of today's classrooms that are increasingly coupled to virtual gatherings through videos, online collaborative documents, and screen-share technologies.

Best regards,
Hank Bass

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Hank W. Bass, PhD
Professor of Biological Science
Florida State University, Tallahassee, FL, USA
Office: (850) 644-9711



NT TECH FEE BUDGET TEMPLATE

Project Funding Proposal

Project Details

Project Title:	Classroom and Conference Room Media Upgrade
Organization or College:	College of Arts and Sciences
Department or Unit:	Biological Science
Project Period:	2018-2019
Start Date:	1-May-19
End Date:	15-Aug-19

I. Senior/Key Personnel (list senior and/or key personnel whose compensation will be funded through project non-recurring funds)

First Name	Middle Name	Last Name	Project Role	Requested Salary	Fringe Benefits	Funds Requested
Total Funds Requested for Senior/Key Personnel						\$ -

II. Student & Other Personnel (insert description)

Type	FTE	Requested Salary	Fringe Benefits	Funds Requested
Graduate Students				
Undergraduate Students				
Other Personnel				
Total Funds Requested for Students & Other Personnel				\$ -
Total Salaries, Wages & Benefits				<u>\$ -</u>

III. Equipment (list items and dollar amounts for each item or multiple items of the same type, including software, with a total cost of over \$2,000)

Item	Description	Funds Requested
LG UK6570PUB-Series 8	Ultra High Definition Monitor (9 @ \$2,484.51)	\$ 22,360.59
Owl Labs Meeting Owl	Video Conferencing Camera (9 @ \$604.80)	\$ 5,443.20
Intel NUC7i5BNH Mini PC	Mini Computer (26 @ \$333.33)	\$ 8,666.58
Crucial 16 GB DDR4 240	RAM for Mini Computers for Classroom Projectors (17 @ \$118.41)	\$ 2,012.97
Epson PowerLite L610U	Overhead Projector (17 @ \$2,999)	\$ 50,983.00
Total Funds Requested for Items Over \$2,000		\$ 89,466.34
Total Funds Requested for Items Under \$2,000		\$ 5,883.09
Total Funds Requested for Equipment Costs		<u>\$ 95,349.43</u>

IV. Other Costs

Category	Funds Requested
Materials & Supplies	
Consultant Services	
Equipment or Facility Rental/Use Fees	
Additional Project Costs (describe in budget just)	
Total Funds Requested for Other Costs	
<u>\$ -</u>	

Total Project Cost	<u>\$ 95,349.43</u>
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Wish List: Conference Room Proposal

Creator: **Alex Stuy**

Total Value: **\$3,790.27**



Pearstone Cat 6a Snagless Patch Ca...

★★★★★ 0

\$5.24

B&H # PECAT6A25BL - MFR # CAT6-A25BL

QTY needed

2 Purchased
0 of 2



HP Keyboard 100

★★★★★ 1

\$6.75

B&H # HEHP2UN30AA - MFR # HP2UN30AA

QTY needed

1 Purchased
0 of 1



Logitech M100 Mouse

★★★★★ 18

\$7.95

B&H # LOM100B - MFR # 910-001601

QTY needed

1 Purchased
0 of 1



Pyle Pro Protective Cable & Wire Co...

★★★★★ 1

\$27.91

B&H # PYPCBLCO22 - MFR # PCBLCO22

QTY needed

2 Purchased
0 of 2



Furman SS-6B Power Pro Plug 6 Out...


★★★★★ 56

\$26.99

B&H # FUSS6B - MFR # SS-6B


QTY needed

1 Purchased
0 of 1




Owl Labs Meeting Owl All-In-One Au...
 ★★★★★ 3
\$604.80
 B&H # OWMEETINGOWL - MFR # MEETING OWL

QTY needed
 1 Purchased 0 of 1




Peerless-AV PA762 Paramount Artic...
 ★★★★★ 8
\$119.85
 B&H # PEPA762 - MFR # PA762

QTY needed
 1 Purchased 0 of 1




KanexPro High Resolution HDMI Ca...
 ★★★★★ 22
\$23.30
 B&H # KAHDMI25FTCL - MFR # HD25FTCL314

QTY needed
 4 Purchased 0 of 4




Intel NUC7i5BNH Mini PC NUC Kit
 ★★★★★ 16
\$341.28
 B&H # INBNUC7I5BNH - MFR # BOXNUC7I5BNH

QTY needed
 1 Purchased 0 of 1



Samsung 500GB 860 EVO SATA III 2....
 ★★★★★ 70
\$79.59
 B&H # SAMZ76E500BA - MFR # MZ-76E500B/AM

QTY needed
 1 Purchased 0 of 1



Crucial 8GB DDR4 2400 MHz SO-DI...
 ★★★★★ 8
\$62.10
 B&H # CR8G4SFS824A - MFR # CT8G4SFS824A

QTY needed
 1 Purchased 0 of 1



LG UK6570PUB-Series 86"-Class HD...

★★★★★ 1

\$2,484.51

B&H # LG86UK6570 - MFR # 86UK6570PUB

QTY needed

1 Purchased
0 of 1



Wish List: Classroom Proposal

Creator: **Alex Stuy**

Total Value: **\$562.37**



Crucial 16GB DDR4 2400 MHz SO-DI...

★★★★★ 19

\$118.41

B&H # CR2K8G4S824X - MFR #
CT2K8G4SFS824A

QTY needed

1 Purchased
0 of 1



Logitech M100 Mouse

★★★★★ 18

\$7.95

B&H # LOM100B - MFR # 910-001601

QTY needed

1 Purchased
0 of 1



KanexPro High Resolution HDMI Ca...

★★★★★ 22

\$23.30

B&H # KAHDMI25FTCL - MFR #
HD25FTCL314

QTY needed

1 Purchased
0 of 1



Samsung 500GB 860 EVO SATA III 2....

★★★★★ 73

\$72.63

B&H # SAMZ76E500BA - MFR #
MZ-76E500B/AM

QTY needed

1 Purchased
0 of 1



Intel NUC7i5BNH Mini PC NUC Kit

★★★★★ 16

\$333.33

B&H # INBNUC7i5BNH - MFR #
BOXNUC7i5BNH

QTY needed

1 Purchased
0 of 1



HP Keyboard 100

★★★★★ 1

\$6.75

B&H # HEHP2UN30AA - MFR # HP2UN30AA

QTY needed

1 Purchased
0 of 1

Education Only US Product Pricing – November 2018

Projectors

Product Code	Brighter Futures Price	Regular Price	Normal (lumens**)	Eco (lumens**)	Native Resolution	Weight (lbs)	Lamp Life* (hours at Normal/Eco lumens)	Lamp Part Number	Lamp Price	Computer Connections	Video Inputs*	Zoom Ratio/Lens	Audio	Wired Network Capability	Wireless Network Capability
Classroom Series (Continued): Classroom series projectors have the largest breadth of variety, for applications most suitable for classrooms. Epson provides different resolutions from SVGA, XGA, WXGA to WUXGA, and brightness from 3300 lumens to 5500 lumens with variety of connectivity options, including wireless and wired network capability to facilitate managing classroom projectors over the network. Many models have audio output options, as well as higher lamp and filter life-cycle ideal for classrooms.															
PowerLite L510U	V11H903020	\$2,399	\$2,799	5,000 color 5,000 white	5,000 color 5,000 white	WUXGA	18.7	Laser	Laser	Laser	2 HDMI, VGA, USB A, USB B, HDBaseT	VGA, HDMI, HDBaseT, USB Playback	1:1.6	10W Mono	RJ-45 (Content over IP) Optional (802.11 bgn, WiFi, Miracast) with WPA/WPA2-Enterprise
PowerLite L610	V11H905020	\$1,999	\$2,399	6,000 color 6,000 white	6,000 color 6,000 white	XGA	18.7	Laser	Laser	Laser	2 HDMI, VGA, USB A, USB B	VGA, HDMI, USB Playback	1:1.6	10W Mono	RJ-45 (Content over IP) Optional (802.11 bgn, WiFi, Miracast) with WPA/WPA2-Enterprise
PowerLite L610U	V11H901020	\$2,999	\$3,499	6,000 color 6,000 white	6,000 color 6,000 white	WUXGA	18.7	Laser	Laser	Laser	2 HDMI, VGA, USB A, USB B, HDBaseT	VGA, HDMI, HDBaseT, USB Playback	1:1.6	10W Mono	Built-In (802.11 bgn 2.4 and 5 Ghz WiFi, Miracast) with WPA/WPA2-Enterprise
PowerLite L610W	V11H904020	\$2,199	\$2,599	6,000 color 6,000 white	6,000 color 6,000 white	WXGA	18.7	Laser	Laser	Laser	2 HDMI, VGA, USB A, USB B, HDBaseT	VGA, HDMI, HDBaseT, USB Playback	1:1.6	10W Mono	RJ-45 (Content over IP) Optional (802.11 bgn, WiFi, Miracast) with WPA/WPA2-Enterprise
PowerLite L615U	V11H901120	\$2,999	\$3,499	6,000 color 6,000 white	6,000 color 6,000 white	WUXGA	18.7	Laser	Laser	Laser	2 HDMI, VGA, USB A, USB B, HDBaseT	VGA, HDMI, HDBaseT, USB Playback	1:1.6	10W Mono	Built-In (802.11 bgn 2.4 and 5 Ghz WiFi, Miracast) with WPA/WPA2-Enterprise
Lighting the Laser Lighting Projectors: Unique spotlight form factor to seamlessly blend in while transforming a space with signage or digital art.															
LightScene EV 100 (White, Includes Direct Mount)	V11H868020	\$1,549	\$2,499	2,000 color 2,000 white	2,000 color 2,000 white	WXGA	15.2	Laser	Laser	Laser	HDMI, USB A, USB B, SDHC	VGA, HDMI, SDHL Playback	1:2.21	Stereo Mini	RJ-45 (Content over IP) Built-In (802.11 bgn, WiFi, Miracast) with WPA/WPA2-Enterprise
LightScene EV 105 (Black, Includes Direct Mount)	V11H868120	\$1,549	\$2,499	2,000 color 2,000 white	2,000 color 2,000 white	WXGA	15.2	Laser	Laser	Laser	HDMI, USB A, USB B, SDHC	VGA, HDMI, SDHL Playback	1:2.21	N/A	RJ-45 (Content over IP) Built-In (802.11 bgn, WiFi, Miracast) with WPA/WPA2-Enterprise
Mobile Series: Incredibly lightweight and bright projectors with wireless connectivity.															
PowerLite 1785W	V11H793020	\$779	\$899.99	3,200 color 3,200 white	1,900 color 1,900 white	WXGA	3.9	4,000/7,000	V13H010L94	\$99	HDMI, VGA, USB	Com, C x1 (HD-15), HDMI w/MHL	1:1.2	1 W Mono	Yes Included (802.11 bgn)
PowerLite 1795F	V11H796020	\$849	\$999.99	3,200 color 3,200 white	1,900 color 1,900 white	1080p	3.9	4,000/7,000	V13H010L94	\$99	HDMI, VGA, USB	Com, C x1 (HD-15), HDMI w/MHL	1:1.2	1 W Mono	Yes Included (802.11 bgn)
Projector Auditorium Series: Lamp or laser, the auditorium series are the ultimate solutions in high-brightness, and full functionality with interchangeable lenses. Ideal for most venues.															
Pro G7000WNL Pro G7000W	V11H752920 V11H752020	\$2,729 \$2,879	\$3,849 \$4,149	6,500 color 6,500 white	N/A	WXGA	25/28	3,000/4,000	V13H010L93	\$199	HDMI, DVI-D, VGA, HDBaseT	HDMI, DVI-D, HDBaseT, 5-BNC	Yes	10W	RJ-45 (Content over IP) Optional (802.11 bgn)
Pro G7100NL Pro G7100	V11H754920 V11H754020	\$2,449 \$2,599	\$3,499 \$3,799	6,500 color 6,500 white	5,915 color 5,915 white	XGA	25/28	3,000/4,000	V13H010L93	\$199	HDMI, DVI-D, VGA, HDBaseT	HDMI, DVI-D, HDBaseT, 5-BNC	Yes	10W	RJ-45 (Content over IP) Optional (802.11 bgn)
Pro G7200WNL Pro G7200W	V11H751920 V11H751020	\$3,329 \$3,479	\$4,649 \$4,949	7,500 color 7,500 white	6,000 color 6,000 white	WXGA	25/28	3,000/4,000	V13H010L93	\$199	HDMI, DVI-D, VGA, HDBaseT	HDMI, DVI-D, HDBaseT, 5-BNC	Yes	10W	RJ-45 (Content over IP) Optional (802.11 bgn)
Pro G7400WNL Pro G7400W	V11H762920 V11H762020	\$3,449 \$3,599	\$4,699 \$4,999	5,500 color 5,500 white	N/A	WUXGA + 4KE	25/28	3,000/N/A	V13H010L93	\$199	HDMI, DVI-D, VGA, HDBaseT	HDMI, DVI-D, HDBaseT, 5-BNC	Yes	10W	RJ-45 (Content over IP) Optional (802.11 bgn)
Pro G7500WNL Pro G7500W	V11H750920 V11H750020	\$3,789 \$3,939	\$5,399 \$5,699	6,500 color 6,500 white	5,200 color 5,200 white	WUXGA + 4KE	25/28	3,000/4,000	V13H010L93	\$199	HDMI, DVI-D, VGA, HDBaseT	HDMI, DVI-D, HDBaseT, 5-BNC	Yes	10W	RJ-45 (Content over IP) Optional (802.11 bgn)

*Com: Composite, S-V: S-Video, C: Component **Color brightness (color light output) and white brightness (white light output) will vary depending on usage conditions. Color light output measured in accordance with IDMS 15.4; white light output measured in accordance with ISO 21118. *Lamp life results will vary based on mode selected, environmental conditions, and usage. Lamp brightness decreases over time. **Active 3D ***Passive 3D

Education Only US Product Pricing – November 2018

More Products and Services

Mounting Accessories			
Product Description	Brighter Futures Price	Regular Price	Product Code
Universal Projector Ceiling Mount Kit	\$72	\$129.99	V12H808001
SpeedConnect Above Tile Suspended Ceiling Kit	\$73	\$99.99	V12H804001
Suspended Ceiling Tile Replacement Kit	\$90	\$119.99	V12H805001
SpeedConnect Suspended Ceiling Tile Replacement Kit	\$112	\$149.99	V12H806001
6" SpeedConnect Ceiling Plate	\$25	\$34.99	V12H807001
Adapter Plate for SMART UF55/65/70/75 Series Mounts	\$89	\$119	V12H807001
Ultra Short-Throw Wall Mount (PowerLite/BrightLink 47X, 48X, 5XV/6XX, and lamp-based BrightLink Pro series ultra short-throw projectors)	\$109	\$109	V12H777020
Ultra Short-Throw Wall Mount (Laser BrightLink 710Ui and 1470Ui)	\$109	\$109	V12H902020
Custom Micro-Adjustable Projector Mount	\$107	\$139.99	V12H809001
9-12" Adjustable Extension Column	\$38	\$54.99	V12H810001
6" Fixed Extension Column	\$14	\$26.99	V12H811001
3" Fixed Extension Column	\$10.50	\$17.99	V12H812001
Short-Throw Wall Mount (PowerLite 520, 525W, 530, 535W, BrightLink 536Wi)	\$149	\$209	V12H706020
Flush Ceiling Mount (Pro Z)	\$266	\$377	V12H003B25
Mount with Extended Pipe (Pro Z)	\$326	\$462	V12H003B26
Ceiling Mount for Pro G7000 and Pro L1000 series - Low ceiling (ELPMB47)	\$379	\$379	V12H802010
Ceiling Mount for Pro G7000 and Pro L1000 series - High ceiling (ELPMB48)	\$469	\$469	V12H803010
Table Mount (PowerLite & BrightLink 47X/48X/57X/58X/595/600/Pro series)	\$149	\$209	V12H516020
LightScene Floor Mount (White)	\$149	\$149	V12H888W10
LightScene Floor Mount (Black)	\$149	\$149	V12H888B10
LightScene Lighting Track Mount (White)	\$149	\$149	V12H933W20
LightScene Lighting Track Mount (Black)	\$149	\$149	V12H933B20

Pro G and Pro L Series Projector Lenses					
Product Description	Brighter Futures Price	Regular Price	Model Number	Part Number	Throw Ratio 16:9 / 16:10 Pro G7000 and Pro L1100U-L1405U models / Pro L1500 and L1700 Series
Ultra Short-Throw Lens for Pro G7000 and Pro L1100U, 1200U, 1300U, 1405U	\$5,299	\$7,499	ELPLX01	V12H004X01	0.35:1
Ultra Short-Throw Lens for Pro L1500 and L1700 Series	Contact Dealer	\$13,999	ELPLX02	V12H004X02	0.35:1
Short-Throw Lens #1 for Pro G7000 and Pro L1000 series	\$2,099	\$2,999	ELPLU03	V12H004U03	0.65 to 0.78 / 0.48 to 0.57
Short-Throw Lens #2 for Pro G7000 and Pro L1000 series	\$2,099	\$2,999	ELPLU04	V12H004U04	0.87 to 1.06 / 0.64 to 0.78
Wide-Throw Lens #1 for Pro G7000 and Pro L1000 series	\$1,276	\$1,899	ELPLW05	V12H004W05	1.04 to 1.46 / 0.76 to 1.07
Wide-Throw Lens #2 for Pro G7000 and Pro L1000 series	\$2,029	\$2,899	ELPLW06	V12H004W06	1.63 to 2.22 / 1.19 to 1.63
Middle-Throw Lens #1 for Pro G7000 and Pro L1100U, 1200U, 1300U, 1405U	\$940	\$1,399	ELPLM08	V12H004M08	1.44 to 2.32 / NA
Middle-Throw Lens #2 for Pro G7000 and Pro L1000 series	\$940	\$1,399	ELPLM15	V12H004M0F	2.16 to 3.48 / 1.58 to 2.56
Middle-Throw Lens #3 for Pro G7000 and Pro L1000 series	\$1,276	\$1,899	ELPLM10	V12H004M0A	3.33 to 5.06 / 2.43 to 3.71
Middle-Throw Lens #4 for Pro G7000 and Pro L1000 series	\$1,276	\$1,899	ELPLM11	V12H004M0B	4.86 to 7.39 / 3.54 to 5.41
Long-Throw Lens for Pro G7000 and Pro L1000 series	\$2,029	\$2,899	ELPLL08	V12H004L08	7.22 to 10.12 / 5.28 to 7.42
Pro Z Series Projector Lenses					
Product Description	Brighter Futures Price	Regular Price	Model Number	Part Number	Throw Ratio 16:9 / 16:10
Short-Throw Lens	\$3,599	\$4,999	ELPLU02	V12H004U02	0.64 to 0.77
Rear Projection Lens	\$1,960	\$2,899	ELPLR04	V12H004R04	0.7
Wide Lens	\$1,960	\$2,899	ELPLW04	V12H004W04	1.19 to 1.62
Standard Lens	\$999	\$1,399	ELPLS04	V12H004S04	1.74 to 2.82
Middle-Throw Lens #1	\$1,960	\$2,899	ELPLM06	V12H004M06	2.42 to 3.71
Middle-Throw Lens #2	\$1,960	\$2,899	ELPLM07	V12H004M07	3.54 to 5.41
Long-Throw Zoom Lens	\$1,960	\$2,899	ELPLL07	V12H004L07	5.27 to 7.41