STUDENT TECHNOLOGY FEE PROGRAM
2013 PROJECT SUMMARY SHEET

Project Title: “Digital Equipment Enhancement and Upgrade”

Department/Organization: ART DEPARTMENT

Applicants (first applicant is considered primary contact):

Name: Garth Amundson  Mail Stop: 9068  Email: garth.amundson@wwu.edu  Phone: x 3436
Name:  Mail Stop:  Email:  Phone:
Name:  Mail Stop:  Email:  Phone:

STF Grant Request (from page 1 of 2013 proposal form: summary box, line 6)..... $94,084.08

Authorization for contribution resources (if applicable):

Submission Date: 12/6/2012

SUBMITTAL APPROVALS

AS President Required for all proposals submitted by Associated Students. Signifies that all resource and program issues have been addressed.

Gaye Green
Department Chair Required for all proposals from a specific department. Signifies that the department can support the project as submitted.

College Dean or Unit Head Signifies that the College or organizational unit can support the program as described.

**Project’s Strategic Priority by College: **

For proposals originating from a college, the dean must review, sign, and strategically prioritize that batch of proposals.

Space Administration Required for all proposals that require additional facilities or changes to existing facilities. Signifies that all space-related issues have been addressed.

Vice Provost for Information Technology/CIO Required for all proposals related to all-university services and all proposals not related to a specific discipline. Signifies that the technology support organizations and technical infrastructure can support the submitted project.
From: Gaye Green  
Sent: Friday, December 07, 2012 9:42 AM  
To: Garth Amundson; Patricia Lundquist  
Cc: Georgia Sentkowski  

We already forwarded your STF grant application yesterday so Pat could you print this statement below and attach it to the application as you see fit? I think that this assurance is very helpful for the grant.

Thanks!
Gaye

Dr. Gaye Green, Chair  
Art Department  
Fine Arts Complex, Room 116  
516 High Street  
Bellingham, WA 98225-9068  
Phone: (360) 650-3660  
FAX: (360) 650-6878  
Email: gaye.green@wwu.edu

From: Garth Amundson  
Sent: Friday, December 07, 2012 12:08 AM  
To: Gaye Green; Georgia Sentkowski  
Subject: From Gary & ATUS RE: STF/Stewardship.

Gaye & Georgia,

In the past the STF committee has wanted "consent" from any campus agency helping with the management of equipment. Several years ago--- I set up the stewardship policy with ATUS. It works perfectly!

In any case, below please find Gary's formal OK. I think it should be included in the application.

Thanks again.

Garth

STF COMMITTEE PLEASE NOTE

From: Gary Malick <Gary.Malick@wwu.edu>  
Date: Thu, 6 Dec 2012 11:27:04 -0800  
To: Garth Amundson <Garth.amundson@wwu.edu>  
Subject: RE: Quick Favor

Garth

As manager of the ATUS classroom services loan pool I would be glad to steward more of the digital cameras for your program and the rest of the student population.

Gary

Gary Malick CTS/ CTBE  
Western Washington University
## 2013 Student Technology Fee (STF) Proposal Form

**Project Title:** Digital Equipment Enhancement and Upgrade

**Department/Organization:** ART DEPARTMENT, CFPA

**Name(s) of Project Applicant(s):**

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garth Amundson</td>
<td><a href="mailto:garth.amundson@wwu.edu">garth.amundson@wwu.edu</a></td>
<td>3436</td>
</tr>
<tr>
<td>Nathan Cranston</td>
<td><a href="mailto:nathan.cranston@wwu.edu">nathan.cranston@wwu.edu</a></td>
<td>3664</td>
</tr>
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</table>

**Principal Contact:**

<table>
<thead>
<tr>
<th>Name</th>
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<td>3436</td>
</tr>
</tbody>
</table>

**Amount Requested for Project**

**Proposed Budget:**

1. Equipment total
2. Plus site preparation *(not STF funded)*
3. Total Project Cost *(spreadsheet total from part IV of this form, Total Project Budget)*
4. Less organization's contribution
5. Less site preparation
6. **STF Grant Request**

<table>
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<th>Amount</th>
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<td>Equipment total</td>
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<td>Plus site preparation</td>
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<td>Less organization's contribution</td>
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## PREREQUISITES

1. Review the policies (two) and procedure (one) below for using lab fees to purchase equipment. You may decide that this option is more effective for funding your proposal.

   - POL-U1400.03 Establishing and Changing Course and Lab Fees
   - POL-U1400.04 Administering and Spending Course and Lab Fees
   - PRO-U1400.03A Establishing a Course or Lab Fee, or Changing the Amount or Purpose of an Existing Course or Lab Fee, Fixed or Variable

2. Read the updated II. STF Proposal Form and Instructions on the Student Technology Fee website.

## IMPORTANT NOTES

1. Disallowed Proposals:
a. Proposals for computer lab upgrades – Existing computer labs are upgraded on a rolling schedule, and the Student Technology Fee continues to fund these upgrades.

b. Combined proposals – The STF Committee accepts single, distinct proposals only.

c. Proposals for software related to maintenance and/or serial payments

2. THE STF Committee will only accept **complete** proposals by the announced deadline. Every section (I–IX) and all items of this proposal format must be addressed.

I. Executive Summary (800 words max)

Provide a summary of the project and the benefits to be derived. Explain what the students would gain from the project, and how the acquisition would meet the Student Technology Fee mission.

With the help of previous Student Technology Fee grants, over the course of the last 12 years, the photography facility within the Art Department has broadened its audience and continues to reach out to the entire University community in a number of capacities. Not only does it provide equipment and photography technology for the photography sequence of courses (290, 390, 391, 490, and summer workshops open to the entire extended community), it has been opened up to students who have an interest in photography on any level. In the case of students, we "service" students from all over the campus and beyond. It is open to students who have a focused interest in photography or including imaging into any aspect of their course of study. For example, if a student is incorporating a documentary component into their environmental studies project, they could train in the lab, pay a small fee, and use the facility to help actualize their project.

As the Art Department grows and expands and a growing number of non-art majors utilize the facility, it is necessary stay current with all aspects of image production. Taking advantage of the traditional dark room, the scanning stations, as well as the large format printers, purchased with the assistance of a previous STF grant, the students capitalize on every aspect of Western's photography program and its equipment. This communal use of technology not only serves as technical support, but creates an exciting bridge between different departments and forms a collaborative interdisciplinary relationship between programs of study.

In keeping with contemporary practice, international standards, and academic goals, the current philosophy between photography instruction is to integrate both traditional and digital technologies. Building off of the existing equipment, the digital facilities have gradually been upgraded. However, as this technology moves at an ever-increasing pace, the photography lab must always look to the future in terms of new equipment and advancement in applications. The equipment requested in this grant will not only help fill existing gaps, but will bring the facility closer to the goal of complete digital integration.

The digital cameras, computers, scanner, and additional equipment are a necessity in any contemporary academic studio environment. This new digital technology, as well as analog equipment will assist students from the entire university community in the production, design, and output of photographic imagery, both in and outside of the classroom. Ultimately, the equipment will enhance their degrees, broaden their scope of knowledge, and assist them to achieve their academic and career goals.

II. Relationship to STF Objectives / Impact on Current Academic Programs
The STF Committee will use as its primary assessment criteria the three objectives—access, quality, and integration—defined in the STF mission. Given this criteria, describe your proposed project in detail.

1. Tell us—focusing on what the students will gain from the project—how the project would provide positive benefits to specific courses or instructional programs. Specifically:

   a. How would this project provide additional student access to technological resources?

      Having access to this technology will continue to enhance students’ immediate skillset by exposing them to current equipment and photographic practices. The new technology will provide them access to advanced digital equipment and other digital applications that they may not have access to or be able to afford on their own. Because the equipment is readily available, students will expand their digital skills and broaden their use of new media as they apply it to their degree of study.

   b. How would this project broaden or enhance the quality of the student’s academic experience through the proposed technology?

      This equipment will further enable students to study digital construction, manipulation and output of images. If not directly in the classroom, students will have access to the technology through the stewardship program provided by ATUS and will provide them with an additional medium to add to their visual vocabulary, heighten their academic experience, and will give them a competitive edge after graduation.

   c. How would this project integrate technology into coursework?

      By further enhancing the digital imaging experience at all levels of photographic studies, students will be able to fuse both traditional photographic methods with more contemporary media. This experience is not relegated to the classroom and through the ATUS stewardship program, all students will be able to utilize the requested equipment.

2. Will other departments be involved with this project?

   No ☐ Yes ☒ If yes, describe.

   ATUS (Academic Technology and User Services) has assisted with the stewardship of the cameras and established a lending program, so the Art Department and the entire student body has access to the cameras.

3. Has any part of this project previously been funded by the Student Technology Fee?

   No ☐ Yes ☒ If yes, describe.

   In past years (2009), we have been awarded funding for cameras, computers, and printers. Based on the success of those awards, this application is a request for additional upgrades, support, and equipment.

4. Is the proposed project a pilot project?

   No ☒ Yes ☐

III. Utilization
List the anticipated number of times and duration per each use—per quarter or per academic year—that students would use the proposed technology. The committee is looking for total student hours and total number of unique students who would use the technology in that time period. Explain how you arrived at this utilization.

The equipment will be used by students enrolled in Art 290, 390, 391, 490, 494, and 300 and 400 level Independent Studies. On average, there are six sections of Art 290 offered every year, three sections of Art 390, one section of 391, numerous Independent Studies, and three sections of the 397 series each summer. Each class is comprised of an average of 18.5 students, with a total of approximately 300 students per year. Although class format may vary, two students would share a camera to complete a variety of digital projects each quarter. Each student would need 10-14 days with the camera. The computer and scanner would be used to manage images and prepare/correct them before printing on the Epson printer or using the images for other applications, such as websites, portfolios and presentations. Both systems would be used on a continuous basis throughout the quarter, during scheduled class time, and on the students’ own time.

In addition to students enrolled in photography courses, Art Department, Graphic Design, Industrial Design, Fairhaven, and countless other students use the facility in order to complete regular assignments, thesis projects, and related coursework. The equipment has also been used by students from across the university to enhance their degrees.

IV. Total Project Budget

This section details the estimated cost of the project. Include costs that would be covered—by your department or another source—for ongoing costs such as personnel or operating expenses.

To assist you in preparing your budget, please consult with relevant campus support departments (ATUS, Purchasing, Space Administration, etc.). For more information about these contacts, see the beginning of “II. STP Proposal Form and Instructions” on the STF website.

Attach Excel spreadsheet if you have additional details.

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<thead>
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<th>Item</th>
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<td><strong>Total</strong></td>
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*This budget total (or your attached spreadsheet total) should match the projected budget figure on page 1 of this proposal. (See box on page 1, line 6.)*
Note: We recognize your proposed budget as an estimate. Final funding for successful projects will be established after thorough technical review; some costs may need adjusting due to price changes. The STF Committee may impose special conditions on a project; see the STF Program Overview.

1. What funding or contributions are available from your department or other sources?

   Note: "Contribution" is defined as a monetary contribution. A vendor discount, for example, is not considered a contribution.

   There is very limited funding available for equipment-dedicated monies. I have used some equipment budget line to develop some tech support but it is not nearly enough to support digital equipment. The photography operating budget is used to maintain the facilities and to repair and replace existing equipment. However, with recent cutbacks, monies are very restricted.

2. Could this project be divided into discrete elements that could be funded separately?

   Note: A “no” response to this question creates an “all or nothing” proposal. That is, if the STF Committee decides against funding your entire proposal, it will not consider any elements for partial funding. If proposal elements could be funded separately, the applicant is responsible for prioritizing these elements before submitting the proposal.

   No [ ] Yes [x] If yes, summarize and prioritize project segments with cost estimate for each segment.

   The list of equipment is in order of need. However, everything on the list is a priority. We have no money to absorb the cost of new equipment and the program is suffering as a result of budget cuts. The STF Grant would enhance the program and serve the Western students much better with full funding.

3. Are lab fees charged for any of the courses that will use this equipment?

   No [ ] Yes [x] If yes, please note: The total funding requested from the Student Technology Fee must reflect the amount collected from course fees for equipment replacement and/or equipment acquisition. All proposals asking for course fees will be reviewed by the Academic Budget Office.

   Course fees are used for materials which are utilized DURING THE QUARTER IN WHICH THEY ARE COLLECTED, including but not limited to chemistry, some papers, ink for digital printers, field trips, visiting artists, and all other supporting components of a course.

V. Impact on Existing Resources

Your proposal must address the project’s potential impact on existing resources. Give special attention to the impact on data transmission networks (e.g., sources accessed, networking equipment, etc.), and personnel (e.g., staffing, administrative support, faculty support, etc.).

Any proposal that includes replacement of computers should specifically address the feasibility and cost effectiveness of upgrading the computers rather than replacing them.

1. Describe how existing equipment is used. Contrast this to projected use if your project were funded.

   Currently ATUS (Academic Technology and User Services) are the stewards of our digital cameras. We would use the same policy with the cameras, with the exception of three. We
would retain the cameras here in the photography area so that we can use them for training, workshops, and demonstrations. All technicians, lab assistants, faculty, and instructors must be familiar with the equipment in order to instruct use of equipment.

2. Is similar equipment or technology available elsewhere on campus—such as the Student Technology Center, Classroom Services, Video Services, Western Libraries, a college lab?

No ☐ Yes ☒ If yes, describe why the existing equipment does not meet the needs outlined in this proposal.

This proposal is intended to bring the Art Department Photography Lab up to par with technology at other locations on campus and other regional and national university Photography programs. The improved lab would provide an easily accessible learning environment for Studio Art and other WWU students where lab assistants, technical assistants, and professors will be readily available to answer questions and train them on the new equipment.

Currently, with the assistance of the STF awards, we have purchased cameras, which are available to the entire university campus. Purchasing additional cameras and equipment will allow the Art Department and the photography area to conduct an entire course of 18 students with the same or similar equipment. This is currently not possible with existing equipment.

3. If this project involves the replacement of equipment:

a. Describe the “before and after” configuration changes. (A spreadsheet reflecting these changes may be attached.) Or, write “N/A.”

   N/A

b. Describe the costs and benefits of replacing vs. upgrading. Or, write “N/A.”

   N/A

4. Will this equipment be available to students outside your department?

No ☐ Yes ☒ If the proposed technology would be used by students outside of your department, describe how they would gain access, how equipment availability would be publicized, the hours/week when equipment would be available, and any costs that would apply.

On a case by case basis, for specific projects related to their course of study, i.e. Fairhaven thesis projects or Photojournalism/Communication majors and any other students who can justify use of the equipment as related to their coursework. There may be a one-time lab fee and additional training if they require long-term usage.

5. Does this project involve the check-out of equipment to students?

No ☐ Yes ☒ If yes, discuss whether or not the Student Technology Center could be assigned this task.

The equipment needs to be available to students for extended use, in classroom and out of classroom. Also, large groups of students must be able to work collaboratively and together as a class. The cameras will be available at ATUS.

6. Does the department have adequate operating funds to provide ongoing maintenance and support?
No ☐ Yes ☑ If yes, describe.

We have an operating budget that will cover the expense of repairs and extended warranties can be purchased through ATUS using the same model and policy as the 2009 STF.

7. Does the department have adequate personnel funds to provide ongoing staff support for this project?

No ☐ Yes ☑ If yes, describe.

The Department has a part-time Instructional Technician (co-author/applicant of this grant) who is trained to repair equipment and we will be responsible for sending equipment to outside agencies for repair and ATUS classroom services is also qualified to maintain and repair the cameras.

VI. Space and Site Information

This section addresses any space alteration or site preparation necessary for the proposed project. Site alterations include painting, holes in walls, security systems, carpeting, construction, lighting changes, or conversion of a lab or office.

Special Note: If this project would require any site preparation, or if this project would use any space not currently under your department’s control:
- You must submit a draft proposal to Space Administration by November 28, 2012.
- Space Administration and Facilities Management will then conduct a site survey and respond to you by December 12, 2012 about project feasibility, cost, and schedule.
- You must include the site survey response with your final proposal.

1. Location for installation of equipment or technology.
   Fine Arts Building, Room 202

2. Would site modification be required?

   No ☐ Yes ☑ If yes, describe the modifications (electrical, air, painting, lighting, security, network access, etc.).

3. Would this project use space not currently assigned to your department or area?

   No ☐ Yes ☑ If yes, describe.

VII. Project Schedule

Describe your overall implementation schedule. (Remember that project awards are announced during spring quarter, and that projects are to be substantially completed by the end of the calendar year.) If any site preparation is involved (see section VI above), align your project schedule with the schedule provided by Space Administration and Facilities Management.

Funds will be used for Summer 2013 coursework.
VIII. Constraints

List or describe any external or internal factors/constraints that could affect your project schedule, project objectives, or the project budget (e.g., if external approval is required for curricular changes, or if funding must be received by a certain date).

There are no constraints to this project.

IX. External Funding

This section must be completed for any projects over $100,000. For project budgets of this scale, the applicant should investigate opportunities for obtaining external funding for all or part of the proposed project.

1. Describe the external organization(s) able to provide funding in support of this project.
   
   N/A

2. Describe the funding cycle for these requests (submission dates, projected award dates).
   
   N/A

3. Indicate the amount of external funding that would be requested.
   
   N/A

4. In cases where joint funding is requested, what would happen if the Student Technology Fee award is made and the external grant is not awarded?
   
   N/A

5. Has a grant proposal already been submitted for all or part of the proposed Student Technology Fee project?
   
   N/A
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<tr>
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<th>QUANTITY</th>
<th>UNIT PRICE</th>
<th>TOTALS</th>
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December 6, 2012

Garth Amundson
Nathan Cranston

2013 Student Tech Fee Proposal
*Digital Equipment Enhancement and Upgrade*

Projected Budget and Equipment (Numbers correspond with printed descriptions)

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Approximate Shipping: $1,054.85
Sales Tax: $7,530.19

Total: $94,084.08
December 6, 2012

Garth Amundson
Nathan Cranston

2013 Student Tech Fee Proposal
Digital Equipment Enhancement and Upgrade

Product Descriptions and Links

1. 10x Canon 5D Mark III kit:

2. 10x Canon Speedlite 600EX-RT
   http://www.bhphotovideo.com/c/product/847537-REG/Canon_52968002_Speedlite_600EX.html

3. 1x Drum Scanner

4. 2x Apple Desktop
   http://www.bhphotovideo.com/c/product/871876-REG/Apple_MD770LL_A_MACPRO_QC_XEONPROCESS_3_2g_6GB_1TB.html

5. 2x Apple Display

6. 1x Xrite Color Management
   http://www.bhphotovideo.com/c/product/751479-REG/X_Rite_EOPH0_i1Photo_Professional_Color.html

7. 1x Rotatrim 54” Mastercut Professional Rotary Cutter

8. 5x UV Filter
   B&H # HOUVMC77 Mfr# A77UV
   Price: $29.99
   http://www.bhphotovideo.com/c/product/652134-REG/Hoya_A77UV_77mm_Ultraviolet_LV_0_Haze.html

9. 19x Adobe Lightroom 4 (for Fl 211)

10. 1x Adobe Photoshop CS6

11. 20x Manfrotto 294 Aluminum 3-Section Tripod W/3-Way Head
    http://www.bhphotovideo.com/c/product/748115-REG/Manfrotto_MK294A3_D3RC2_294_Aluminum_3_Section_Tripod.html

12. Lowepro Nova 180 AW Shoulder Bag (Black)
Canon EOS 5D Mark III Digital Camera Kit with Canon 24-105mm f/4L IS USM AF Lens

Includes Free:
- Lowepro Rezo 170 AW Camera Shoulder Bag
- SanDisk 16GB CompactFlash Memory Card Extreme Pro 600x
- UDMA Pearstone LP-ES Lithium-Ion Battery Pack (7.4V 1450mAh)

Total Value: $156.66

Price: $4,299.00
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Instant Savings: -$400.00 Offer ends JAN 5 '13

Includes Free:
- Lowepro Rezo 170 AW Camera Shoulder Bag
- SanDisk 16GB CompactFlash Memory Card Extreme Pro 600x
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Free Shipping (USA)

In Stock

B&H # CAE5D324105 • Mfr# 52608009

(201 reviews) write a review

Product Highlights
- 22.3MP Full-Frame CMOS Sensor
- Includes Canon EF 24-105mm f/4L Lens
- 3.2" Clear View High Resolution LCD
- DIGIC 5+ Image Processor
- 61-Point High Density AF
- Full HD 1080/30p and 720/60p Formats
- Built-In HDR and Multiple Exposure Modes
- Extended ISO Range (50-102400)
- Dual CF and SD Memory Card Slots
- Durable Magnesium-Alloy Construction

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The Canon EOS 5D Mark III Digital Camera Kit with Canon 24-105mm f/4L IS USM AF Lens is a full-frame 22.3MP DSLR featuring exceptional still image and movie recording capabilities. Integrating Canon's new DIGIC 5+ Image Processor and 14-bit A/D conversion, this camera is able to produce superbly detailed imagery with immense low-light sensitivity that is further aided by an extended ISO range up to 102400. Image quality is further enhanced by the new 61-point high density reticular autofocus, including up to 41 cross-type AF points and 5 dual diagonal AF points for ensured sharpness. IFCL metering works in conjunction with the AF system and uses color information from scenes to produce accurate exposure readings using a 63 zone dual-layer metering sensor. HDR and Multiple Exposure modes provide greater creative opportunities and help you to reduce the amount of post-production time needed to produce high quality imagery. The 5D Mark III is also capable of recording full HD video with manual exposure control and in multiple frame rates, allowing 1080p/50p and 720p/60p. Still images can also be recorded up to 6fps.

Image review is possible using the 1,040,000-dot 3.2” Clear View II LCD monitor, which features a high-transparency, reflection resistant multi-coating for adequate viewing under bright conditions. The Intelligent Viewfinder also integrates a superimposed LCD providing you with exposure information and features a 100% field of view.

A highly durable magnesium-alloy body surrounds the components and offers increased dust and weather resistance. An updated EOS Integrated Cleaning system also helps to reduce and remove dust within the camera body. Several of the physical controls on the camera body are fully customizable for a more efficient workflow and more convenient handling scheme. Dual CF and SD memory card support also increases the compatibility of the camera. Support is also provided for the optional Canon Wireless File Transmitter and GPS receiver for remote logging, tracking, and sending of your imagery.

Included with this kit is Canon’s EF 24-105mm f/4L IS USM AF lens. This standard zoom lens provides an adequate range of focal lengths, from wide angle to standard portrait length. It features Image Stabilizer Technology for reduction of camera shake up to 3 stops and is constructed with 1 Super-UD glass element and 3 aspherical lenses for great image clarity.

22.3 Megapixel Full-Frame CMOS Sensor
A newly designed 22.3MP full-frame CMOS sensor is incorporated into the 5D Mark III providing you with highly detailed, rich images with a maximum resolution of 5616 x 3744 pixels. The sensor is also features a high S/N ratio and larger individual pixels for increased visual depth and cleaner looking images. A new photodiode structure and increased photodiode conversion rate also helps to improve the overall sensitivity of the sensor, resulting in a reduction in image noise and improved high ISO performance.

DIGIC 5+ Image Processor
Processing speed and power are increased to promote significantly greater overall performance and response from all aspects of the camera. New algorithms are incorporated in order to promote better noise reduction for higher ISOs and chromatic aberration compensation. The increase in processing speed also helps to improve the continuous shooting rate, bringing it to 6 full-resolution frames-per-second.

14-bit A/D Conversion
The 14-bit signal processing helps to improve the quality and gradation of images by producing more natural, smooth-looking results. An increased ISO range is also provided, from 100 to 25600 in standard modes and 50 to 102400 in expanded modes. The ISO range can be controlled and customized depending on the user’s preferences, and additionally an auto ISO mode can be employed. This extended sensitivity range helps to counter frequently changing and difficult lighting situations and significantly minimizes noise when photographing with even the top-rated sensitivity.

61-Point High Density Reticular AF
The newly designed 61-point autofocus interface helps to ensure critical focus no matter how complex or difficult the situation is. Featuring up to 41 cross-type AF points (with 94 lens support) and 5 dual diagonal AF points (with iFCL sensitivity); this AF system is highly accurate and extremely low-light sensitive.

The dedicated AF menu tab permits quick and easy access, eliminating the need to navigate through settings menus in order to modify your AF settings. Autofocus point selection is broken up into 6 different methods-Spot, Single Point, Single + 4 Adjacent Points, Single + 8 Adjacent Points, Zone Selection, and Automatic AF Point Selection-as well as a dedicated AF configuration tool for control of AI Servo AF III tracking parameters.
iFCL 63-Zone Dual Layer Metering Sensor

An intelligent metering system works in conjunction with the autofocus system and independently analyzes "Focus, Color, and Luminance" within the scene for the most precise exposure settings possible. The 63 zones cover the entire image area with great detail and the dual-layer design permits a wider sensitivity to different wavelengths of light.

The dual layers are split into a red/green channel and a blue/green channel; which counters the red light sensitivity bias electronic sensors inherently have. A series of algorithms are employed to combine data received from both layers, with the resulting exposure reading being extremely accurate regardless of the shooting conditions.

EOS HD Video

Full HD video recording is supported in multiple formats, including 1080/30p; 24p, 25p; 720/60p, 50p; 480/30p, 25p. While recording video, a 4GB automatic file partition is employed in order to gain longer continuous recording times, up to 29 minutes 59 seconds. Both All I-frame and IPB compressions are supported as well as the standard H.264/MPEG -4 AVC codec. Embedding the time code is also possible for greater convenience when recording with multiple cameras.

Video performance is further enhanced with the ability to manually adjust your exposure settings and audio levels while recording. By employing Live View, you can view your recording on the LCD and make settings changes with a dedicated menu tab on the fly. The DIGIC 5+ processor also dramatically improves video response times and helps to reduce color artifacts, aberrations, and moiré.

Rugged and Efficient Design

Constructed from magnesium-alloy, the 5D Mark III features a toughened housing that provides enhanced dust and weather resistance. Its ergonomic design also produces an intuitively navigable interface with an emphasis on lessening hand strain and increasing functionality. Handling is simplified and natural with this body due to the incorporation of customizable controls: You can make shooting settings with just your right hand, and fast image check and image processing operations with just your left. The redesigned grip offers easy holding when shooting or carrying the camera, while the rubber skin coating has been engineered for all day comfort in your hand and also coats the camera's card slot cover. Additionally, there's an internal headphone terminal and dual card slots supporting both CF and SD / SDHC / SDXC memory cards. Three recording modes are ideal for a variety of workflows: Auto switch media instructs the camera to swap cards as soon as one card is filled, a great feature for long shoots. The camera can also record separately to each card. For extra security, you can set the Mark III to generate an automatic backup by recording the same file to both cards at the same time.

The 5D Mark III also boasts a dual-axis electronic level indicator displaying vertical and horizontal tilt on the LCD monitor—either alone or during Live View shooting. The indicator may also be displayed in the intelligent viewfinder, if you prefer. A newly designed shutter is equally as robust and has been tested up to 150,000 cycles. The lightweight, carbon fiber blades also provide support for the increased 6fps burst rate.

The body construction also features extensive gasketing for maximum dust and weather protection, even at connection points around the lens, hot shoe, and memory card slots. Further dust protection and removal is aided by an updated EOS integrated Cleaning system that uses a vibration-based dust removal process.

Intelligent Viewfinder

The optical viewfinder provides a 100% field of view with 0.71x magnification and a wide viewing angle of 34.1°deg. A refined design integrates aspherical lens elements into the construction and lessens distortions and color aberrations while providing greater clarity for composing imagery. In addition to a clear view, a superimposed, transparent LCD is also incorporated. This Intelligent Viewfinder mode can be toggled on or off quickly at the touch of a button, allowing you to remove all camera information for unobstructed viewing. The information provided when it is on includes a customizable display of focus points and grid lines, which can also be directed to appear outside of the image area.

Canon's Dual Axis Electronic Level can also be used in conjunction with the Intelligent Viewfinder and visually displays pitch and roll angles, aiding in properly level horizons. When used in the viewfinder, this feature can display +/- 6° of roll and +/- 4° of pitch in 1° increments when held horizontally (the inverse is shown when held vertically). The electronic level is particularly useful for landscape photographers and those working with tilt and shift lenses whose angle of view is especially critical.

3.2" Clear View II LCD Monitor

The expanded 3.2" Clear View II LCD provides high quality viewing with a 1,040,000-dot resolution and anti-reflective coating. This allows for sharp and clear viewing in even the brightest of conditions and displays images and videos with great detail and richness. The display also features a viewing angle up to 170° for review from the side or below.
The Dual Axis Electronic Level is also functional in on the LCD and can display a full 360° of pitch and +/10° of roll in 1° increments. When used in conjunction with Live View mode, a smaller display is placed over the image. Live View mode permits real-time image review and can also place grid lines over the image for compositional help. You can also zoom into and navigate within the image when in Live View and use the grid lines for minute control and precision over the alignment of your photograph.

**Multiple Exposure and High Dynamic Range**

Multiple exposures are possible in-camera and can be recorded onto a single file using 4 distinct settings for control. When in Additive mode, this closely resembles making multiple exposures on film and layers each exposure; manual exposure compensation is required. Average mode layers the images and automatically compensates for the final exposure eliminating the unintended possibility of gross under or overexposure, bright mode is specifically designed for photographing in uniformly dark scenes with a bright subject, such as a studio environment. Dark mode functions inversely, and helps to eliminate overly bright sections of the image including reflections and highlights.

A High Dynamic Range (HDR) mode is also incorporated and allows for the creation of HDR images in-camera, reducing the time needed to manually overlay images in post-production. When using this mode, a series of 3 bracketed exposures are made of the same image, then automatically integrated into the same frame, resulting in a photograph without blown highlights or blocked up shadows and a long middle range of tones. This mode is especially useful when photographing scenes with a great deal of contrast.

**Wireless and GPS Compatible**

The 5D Mark III is compatible with the WFT-E7A Wireless File Transmitter as well as the GP-E2 GPS Receiver (both not included). The WFT-E7A, which supports 802.11 a/b/g/n and sports a built-in Gigabit Ethernet connection, provides LAN and Bluetooth image transfers and features an FTP mode with automatic image resend function to ensure file delivery even if the signal momentarily drops. The transmitter also has EOS utility mode and WFT server mode, and is capable of performing time sync multiple cameras on the same network. The GP-E2, which connects via USB or Hot Shoe, automatically embeds location data into the images’ metadata, including latitude, longitude, elevation, and the camera’s orientation in relation to a compass reading when shooting. It also has a GPS time sync function, particularly useful when a project is shot among different time zones. Both of these accessories do not compromise the 5D Mark III’s dust and weather resistance and are designed to the same rugged specifications.

**Canon EF 24-105mm f/4L IS USM AF Lens**

Providing an adequate range of focal lengths, this standard zoom lens is constructed with 1 Super-UD glass element and 3 aspherical lenses for a high level of image clarity and a reduction in chromatic aberration and distortion. It also features Image Stabilizer Technology for a 3 stop advantage over camera shake. Its design incorporates the same dust and weatherproofing as the camera for protection from the elements in a wide range of situations.

**Optional Battery Grip**

The optional dedicated Battery Grip BG-E11 (not included) features buttons and a multi-controller. It delivers seamless performance regardless of whether the camera is in vertical or horizontal orientation. The grip takes 2 LP-E6 batteries or an included AA battery magazine, and is useful in counter-balancing large lenses during handheld shooting.

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Canon Speedlite 600EX-RT

Price: $629.00
Instant Savings: -$60.00
You Pay: $569.00
Offer ends JAN 5 '13

Free Shipping (USA)
In Stock

B&H #: CA600EX  Mfr #: 52968002
(150 reviews) write a review

Product Highlights
- Wireless Radio Multiple Flash System
- TTL, E-TTL II & A-TTL Compatible
- GN 197" (60 m) @ ISO100
- Exceptionally Dust- and Water-Resistant
- Zoom Flash Head: 20-200mm Range
- Dot Matrix LCD Panel and Backlit Button
- Color Filter Holder for Gelatin Filters
- 18 Custom Functions
- Full 180-Degree Swivel in Each Direction
- AF Assist Beam

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Overview Specifications What's in the Box Customer Reviews Accessories

As a Canon top-of-the-line flash, the Speedlite 600EX-RT takes the best features from existing models and adds functionality for enhanced digital photography. The 600EX features a new wireless multiple flash system using radio wave communication that provides more precise control over as many as five groups of flashes. There's also more power, with a guide number of 197" (60 m) at ISO 100, a zoom flash head that covers a 20-200mm range. Compatible with the AF frame of all EOS cameras, the Speedlite 600EX-RT even works perfectly with the 61-Point High Density Reticular AF found in the EOS-1D X and the EOS 5D Mark III.

The 600EX-RT offers radio controlled, two-way wireless transmission up to 98.4 feet, among up to 5 groups with a total of 15 individual speedlites. Communicating on 2.4 GHz frequencies, it doesn't have the same directional limitations of traditional wireless optical transmitters. Where other wireless signals can be interrupted by physical obstacles, radio controlled systems excel. 15 transmission channels are available, selectable manually or automatically, and radio transmission IDs can be set to prevent misfiring in the event of signal interference on the same channel.

The included color filter holder and two orange color filters multiply your creative options—the holder is compatible with Canon as well as third-party gelatin filters. The 600EX offers several other improvements—it's been redesigned, with a metal hot shoe, improved dust- and water-resistance and body strength, plus the ability to control flash functions and settings from the camera menu. A dot matrix LCD panel and backlit button deliver much-improved visibility.

Essential Accessories

Batteries & Power
Required item:
Pearstone - NM-H23 4 AA NiMH Batteries (2300mAh) with 4 Hour Charger (110-240V)
Price: $14.50

Bolt - CSP-C1 Compact Battery Pack for Canon Flashes
Price: $74.95

Flash Diffusers
Show more:
Sto-Fen - OM-ET Omni-Bounce for Canon 600EX-RT
Price: $9.99
The flash supports all current versions of TTL, including evaluative E-TTL II. This is great for photographers who shoot high contrast or reflective subjects, like those encountered in wedding photography. Photographers can now capture every detail from the black of tuxedos to the white of wedding dresses. The 600EX-RT is compatible with all E-TTL II/E-TTL autoflash EOS DSLRs.

New wireless multiple flash system using radio wave communication for enhanced control of up to five groups of flashes

Zoom flash head covers wide range of 20-200mm; maximum Guide Number—197 (60 m) at ISO 100

Redesigned contact construction, improved flash head durability, and exceptional dust and weather resistance for reliable operation

Built-in AF-assist beam compatible with Canon’s new 61-Point High Density Reticular AF

Dot matrix LCD panel and backlit button provide easy visibility.

Color filter holder for attaching Canon and third-party color gelatin filters

18 Custom Functions for creative flexibility

Full swivel, 180° in either direction

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Manfrotto 294 Aluminum 3-Section Tripod W/3-Way Head

Price: $127.50

Calculate Shipping
In Stock

B&H # MAMK294A3D3R
• Mfr# MK294A3-D3RC2

(40 reviews) write a review

Product Highlights
• 3-Section Aluminum Legs
• Weighs Just 6.62 lb (2.55 kg)
• Anti-Shock Collar
• Maximum Height of 5.93' (1.81 m)
• Minimum Height of 1.69' (51.7 cm)
• Maximum Load Capacity of 11 lb (5 kg)

Overview Specifications What’s in the Box Customer Reviews Accessories

The 294 Aluminum 3-Section Tripod W/3-Way Head from Manfrotto, the largest in the 294 tripod line, comes with the 804RC2 3-way head and provides a solid camera support. A maximum height of 5.93' (1.81 m), load capacity of 11 lb (5 kg), anti-shock collar, minimum height of 1.69' (51.7 cm), and weight of just 6.62 lb (2.55 kg) make this an excellent choice for a mobile photographer needing maximum support with minimum weight.

3-section aluminum tripod with a panhead
Anti-shock collar protects your camera from accidental impact
Maximum height of 5.93' (1.81 m)
Minimum height of 1.69' (51.7 cm)
Maximum load capacity of 11 lb (5 kg)
Weighs 6.62 lb (2.55 kg)

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Why Shop at B&H
Hasselblad Flexlight X1 Scanner

Overview

The Hasselblad Flexlight X1 Drum Scanner is designed to serve most photographers and offers unsurpassed quality, fast scanning, and multiple format capacity. It is easy to use, and is built with a vertical optical system to allow the CCD to face downwards, creating a glass-free optical path between the original and the lens. The patented vertical drum solution produces optimal focusing across the whole of the original, and the flexible holder guarantees easy mounting combined with safe and cautious handling of your originals.

Having a device that has the quality to reproduce all the subtle details embedded in your negatives and transparencies that gives you full control over the crucial interpretation of your work is what makes owning a Hasselblad scanner attractive. Your valuable originals are never out of your custody and you are the one who decides when to do what and how. Furthermore, the 3F workflow can produce a throughput that has to be seen to be believed; automatic format detection, cropping, and individual file naming is right at your fingertips with just the push of a button.

The X1's 6300 dpi maximum resolution is more than you'll need in most cases, and although many scanners have a higher optical resolution, they'll not have better clarity and detail when scanning photographic film. The combination of the electronic image handling of the sensor, the device's mechanical precision, the quality of the sensor filters, and the resolving power of the Rodenstock lens are what set it apart.

The X1 can blaze along at up to 60 MB per minute, which is unusually efficient. The Flex-folded holding system allows production speed without excessive heat. You can also perform batch scans with the X1.

Specifications

Price: $15,995.00

Free Shipping (USA)

In Stock

B&H # HASFX1 - Mfr# 70380201

Write a review

Product Highlights

- Virtual Drum, Vertical Loading
- Glare-Free Path to Film
- Scan 35mm up to 4x5" Film
- 4.8 D-max
- Resolution (35mm Film): 6300dpi
- Resolution (Medium Format): 3200dpi
- Fast 50 MB per Minute Speed
- Batch Scanning Capacity
- Auto Cropping/fomatting/Naming
- Rodenstock Optical Lens

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Essential Accessories

Care & Cleaning

Hasselblad - Dust Cover
Price: $50.00

Warranties

Hasselblad - Two (2) Year Extended "Enhanced" Warranty for the X1 and 646 Flexlight Scanners
Price: $2,150.00

Usually ships in 7-14 business days
Up to 6300 dpi Resolution
A resolution of 6300 dpi is more than you need in most cases, and although you can find scanners with a higher optical resolution, you will not find better clarity and detail rendition when scanning photographic film in any other scanner. This optimum image quality is due to the electronic image handling of the sensor, the mechanical precision of the device, the quality of the sensor filters, and the resolving power of the Rodenstock lens.

Virtual Drum and Vertical Optical System
A vertical optical system allows the CCD to face downwards, creating a glass-free optical path between the original and the lens. The patented virtual drum solution produces optimal focusing across the entire original, and the flexible holder guarantees easy mounting and safe and secure handling of your originals.

Up To 60 MB per Minute Scan Speed
The Flexlight X1 is an unusually efficient scanner that will carry out most tasks quickly and easily. The easy-to-mount FlexHolder system produces a very high throughput without generating excessive heat, as the electronics run at a low frequency.

Batch Scanning Capabilities
With the FlexHolder system you either mount several originals in one holder or a film strip of 4 or 6 images. In that way you can utilize the advanced batch scanning capability scanning up to 6 images in one pass. Alternatively, you can utilize the unique 3F scanning feature.

The 3F File and Workflow and 3F Auto Scan Button
If you mount a film strip and press the 3F auto scan button the scanner will automatically detect and crop each image and save it with different names. The images are scanned in a specified resolution at 16 bit per color. In this way the full range of the original is extracted from the scan. The 3F file is never altered but will act as a "preview scan" when you open it later, and you can re-do all operations and change whatever parameters you wish. This is exactly like re-scanning but without the need for the film original to be present.

Overview | Specifications | What's in the Box | Accessories

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The Event Space
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Browse our Winter 2012-13 Interactive Catalog

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Please note that B&H does not process web orders from Friday evening to Saturday evening. Weekend hours
Apple Mac Pro Intel Xeon Quad-Core Desktop

Price: $2,286.34

Overview
With 4.0 cores of total processing power, the Mac Pro Intel Xeon Quad-Core Desktop has been designed to be the fastest Mac ever—and it does not disappoint. Utilizing the latest technologies, and the finest eco-friendly materials, this generation of Apple's Mac Pro series continues the legacy of power, speed, and expansion it has come to be known for.

In addition to the raw power of the 4.0 cores, the boost performance can get up to 1.5x that of the normal processing speed. With high-performance ATI Radeon HD graphics, and ultra fast solid-state drive options your potential speed and performance is further enhanced—with up to 5x faster video performance, and 2.5x faster encoding. Expansion is fast and simple as well with the easy-access provided by the well-designed interior of the Mac Pro. It is literally a "snap" to add up to 32 GB of memory, four PCI Express expansion cards, and up to 8.0 TB of HDD or SSD storage.

With these impressive features, and many more, your Mac Pro Intel Xeon Quad-Core Desktop will easily tackle...

Specifications

Essential Accessories

Monitors
Required Item:

Apple - 27" LED Cinema Display
Price: $999.00

This display can only be used with computers that feature a Mini DisplayPort connector.

Memory
nearly anything you throw at it—while also functioning very efficiently. Compliant with Energy Star 5.0 ratings, and thoughtfully designed with a highly recyclable aluminum enclosure, as well as being BFR- and PVC-free, it will have a large impact on your workflow, but not so much on the environment.

More Cores, In One Die
The Mac Pro Intel Xeon Quad-Core Desktop is available in this 4.0-core configuration at 3.2GHz, and while many other multicores processors are composed of two separate dies, meaning some cached data travels outside of the processor itself in order to get from core to core. Because that’s an inefficient way to access information the Mac Pro Intel Xeon Quad-Core Desktop’s single-die, 64-bit architecture makes its fully shared L3 cache readily available to each of the cores. This results in faster access to cached data and greater application performance. Combine that with the other technological advances and you get a Mac Pro that’s up to 1.5x faster than the previous generation.

Integrated Memory
Traditionally, system memory was often connected to a processor via separate I/O controllers. However Intel’s Xeon processors feature an integrated memory controller, thereby connecting memory directly to the processor. The Mac Pro processors then have faster access to data stored in memory, and memory latency is reduced.

Power When You Need It, Stability When You Don’t
Turbo Boost automatically boosts the processor clock speed based on workload, and if you’re using an application that doesn’t need every core, Turbo Boost then increases the speed of the active ones on top of that.

24 Virtual Cores
The Intel Xeon processors support Hyper-Threading, which allows two threads to run simultaneously on each core. So, for example, a 12-core Mac Pro presents 24 virtual cores that are recognized by OS X. Performance is enhanced because Hyper-Threading enables the processor to take better advantage of the execution resources available in each core.

The Direct Approach
QuickPath interconnect—a bidirectional, point-to-point connection—gives the Intel Xeon processors quick access to the disk, I/O, and other Mac Pro sub-systems. There’s a QuickPath Interconnect between the two processors in dual-processor Mac Pro models, as well. This connection acts as a direct pipeline, so processor-to-processor data doesn’t need to travel to the I/O hub first—just another way the Mac Pro boosts performance across the board.

Greater Efficiency, Lower Consumption
Energy Star 5.0 sets significantly higher efficiency limits for power supplies and aggressive limits for the computer’s typical annual power consumption. The Mac Pro meets the stringent low power requirements set by the EPA, qualifying it for Energy Star.
Apple 27" LED Cinema Display

Price: $899.00

In Stock

88H # APLED27 • Mfr# MC007LL/A

(71 reviews) write a review

Product Highlights
- Mini DisplayPort
- 2560 x 1440
- 178°/178° Viewing Angle
- 375cd/m² Brightness
- 1000:1 Contrast Ratio
- 12ms Response Time, 16.7 Million Colors
- 3-Port USB 2.0 Hub
- 2.1 Channel Speakers
- iSight Webcam with Microphone
- MagSafe Power Connector

This display can only be used with computers that feature a Mini DisplayPort connector.

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Overview Specifications What's in the Box Customer Reviews Accessories

The 27" LED Cinema Display from Apple is an LCD computer monitor, designed for use with Apple computer systems. It features a striking glass and aluminum design, which matches that of Apple's popular iMac computer.

The display features an impressive 2560 x 1440 resolution, integrated iSight camera, microphone, and 49W stereo speakers. It uses IPS technology for superior image quality, and features a glossy finish for improved color saturation. An ambient light sensor automatically adjusts screen brightness to match your surroundings.

The display also features an integrated USB hub, and a Mini DisplayPort interface. It even features a MagSafe power connector, which can be used to provide power to a connected MacBook or MacBook Pro computer. Its desktop stand supports -5°-25° tilt adjustment.

See the Bigger Picture

A Bigger Display for Your Biggest Ideas
Connect your Mac with Mini DisplayPort to the LED Cinema Display for a panoramic viewing experience.

Essential Accessories

Cables & Adapters
Gefen - EXT-DVI-2-MDP DVI to Mini-DisplayPort Converter
Price: $99.95

Surge Protection
APC - Back-UPS 350 (120V)
Price: $80.99

Cable Management
Pearstone - 4" Plastic Cable Ties - Clear
(20-Pack)
Price: $0.59
LED Backlighting -- One Bright Idea

Full brightness with no waiting. That's the big advantage of LED backlight technology. Unlike most displays that take time to warm up before they reach maximum brightness, a LED backlight display is instantly on and uniformly bright. LED backlighting also gives you greater control over screen brightness. So you can tune the LED Cinema Display to suit the ambient light in even the dimmest room.

Stunning from Every Angle

The LED Cinema Display looks great from any seat in the house, thanks to a premium display technology called in-plane switching (IPS). IPS gives you a bright picture with excellent color consistency — even if you're viewing the display from the side.

49 Watts of Stereo Sound

The LED Cinema Display gives you more than video — it gives you audio, too. The built-in 49W speaker system includes an integrated subwoofer that delivers immersive, full-range sound for music, movies, and games.

Built-In iSight and Microphone

With the built-in iSight camera and microphone, you can connect your Mac desktop or notebook — open or closed — and have video chats or take pictures using Photo Booth.

Ambient Light Sensor

The new ambient light sensor intelligently adjusts the brightness of the LED Cinema Display to your room environment. This gives you the perfect brightness for any situation while using the least amount of energy necessary.

Smooth-Motion Hinge

Tilt the LED Cinema Display to get the viewing angle that's best for your work environment. With its smooth-motion hinge, adjustment is effortless. Choose an angle anywhere from -5° to 25°.

Plug-and-Play Perfection

Works with Every New Mac

You can connect your LED Cinema Display to any of the current lineup of Mac notebooks and desktop computers: MacBook, MacBook Pro, MacBook Air, iMac, Mac mini, and Mac Pro. That's because the LED Cinema Display uses the ultra-compact Mini DisplayPort connector. While other display connectors have you lining up pins or fumbling with screws, the Mini DisplayPort connector is easy in, easy out. And because it carries both video and audio, there's one less cable to worry about.

MagSafe Connector

The LED Cinema Display includes a MagSafe connector that powers and charges your MacBook, MacBook Pro, or MacBook Air. The connector sits on your desk, ready and waiting. No need to unwind the cord to the power adapter that came with your notebook. Leave it exactly where it is, in your bag.

Three USB 2.0 Ports

On the back of the display, you'll find three self-powered USB ports. You enable them — along with the built-in iSight camera, microphone, and speakers — the moment you plug the USB connector into your Mac with Mini DisplayPort. Connect a printer, camera, iPod, iPhone, whatever you like. And they can stay connected — charging your iPod or iPhone — even if you grab your notebook and go or shut down for the night.

The Greenest Apple Display Ever

Free of Harmful Toxins

One thing that makes the LED Cinema Display so remarkable is what it lacks. Namely, environmentally harmful mercury. And like the latest iPod, iPhone, and Mac computers, the glass used in the display is arsenic-free. Even the cables and components are BFR- and PVC-free.

Highly Recyclable

Because of its glass and aluminum construction, the LED Cinema Display is highly recyclable. So when you eventually part with it, it can be remade into something new.

Energy Efficient

The LED Cinema Display is designed to be energy efficient right out of the box. It uses mercury-free, energy-efficient LED backlight technology and an ambient light sensor that dims automatically to save energy and provide more comfortable viewing in less brightly lit rooms. It also features a highly efficient power supply to minimize the power wasted when bringing electricity from the wall for the display and to charge your Mac notebook.
libraries and for captured spot colors—get the color you desire without editing any profiles

Supports high-patch-count test charts for the most accurate printer profiles—ideal for fine art printing and proofing

Choose from standard test charts or easily build your own to meet your specific color and paper size requirements

Automatic detection of any installed RGB printer driver

Visual display of measured data provides instant feedback during measurement process

Capture true colors with flash and ambient light measurements—easily apply output profiles for your gallery, studio, or retail environment's lighting conditions for a perfect color match

Quickly check color output quality with ColorChecker Proof visual assessment target

Semi-automated scanning method for test charts—measure 300 patches in less than a minute with i1Pro

Highly sophisticated ruler system enables easy one-hand scanning operation, and can be used with or without the backup board—scans materials up to 3mm and folds for easy transport

ColorChecker Camera Calibration System

Widely adapted profiling technology provides excellent results with just the mini 24-patch ColorChecker Classic target, producing custom camera profiles that work exceptionally well in Raw workflows, even in unusual artificial light sources and with multiple cameras

Camera calibration for Raw shooters enables greater capability to calibrate and correct color

Minimize color differences between cameras and lenses

Make color balance match across different scenes

Create dual-illuminant profiles that take into account two different light sources to create a single profile, which can be applied to an even wider variety of lighting conditions

Pantone Color Manager

Automatically updates all Pantone Color libraries and dynamically keeps them up to date

Uses Pantone PLUS Color Bridge values

Builds palettes of best-match Pantone colors that are auto-extracted from your own images

Enables any library or palette, including palettes extracted from images, to be used in i1Profiler spot color optimization of printer Profiles.

Builds ICC profile-based device-specific CMYK recipes for any Pantone Graphics library

Simulates and helps you visualize spot vs. four-color process, including display and print gamut warnings to make it easy to identify any colors that cannot be properly printed on your target output device or properly displayed on your monitor

Synchronizes spot color values to design applications

i1Pro Ruler, Accessories and Carry Case

Every i1Basic Pro ships with an easy-to-use ruler system that makes chart measurements extremely fast and easy with just one hand. Use the ruler as a standalone device or with the included white-surfaced, sturdy, foldable back-up board. Rapid, error-free measurements are a certainty with the i1Pro ruler and the incorporated i1Pro Teflon base for smooth gliding

Accessories include a Beamer Holder for hands-free projector profiling, a Monitor Holder for accurate monitor profiling, an Ambient Light Measurement Head, and a Spot Color Positioning Target

i1Basic Pro comes complete in a water-resistant, non-abrasive canvas carrying case with shock-absorbing foam padding, making storage of your i1 system a snap

Overview Specifications What's in the Box Customer Reviews Accessories

See any errors on this page? Let us know.

Sales: 800.606.6969 or 212.444.8616 Customer Service: 800-221-5743 or 212-239-7765

Hours of Operation Directions to our NYC SuperStore
X-Rite i1Photo Pro is a professional color management system for photographers. It features a complete color calibration and profiling hardware & software system that lets you quickly and easily create custom profiles for cameras, monitors, RGB printers, and digital projectors. Maintain accurate colors throughout your digital imaging process, from capture to output, to achieve consistent results with neutral grays, natural skin tones, and high-quality highlight and shadow details.

Addressing the capture end is a camera calibration system based on the ColorChecker Classic mini target (with 24 colors patches that include six grayscale squares) and ColorChecker Passport Camera Calibration software. Shooting the target with either one camera or multiple cameras will enable you to build custom camera profiles quickly and easily for Adobe’s Lightroom, Photoshop, Photoshop Elements, Camera Raw (ACR), and Bridge programs. These profiles will work well even in unusual conditions or with artificial light sources.

To keep your displays and printers in line with the rest of your color workflow, the industry-standard i1Pro spectrophotometer device achieves fast, accurate color measurements of for both monitors and printed material. You can capture spot colors from any surface. Capture both flash and ambient light so you can optimize your environmental conditions for performing color-critical work. The i1Pro feeds on USB power for convenient operation.

The Windows- and Mac-friendly i1Profiler software, based on the best features of its predecessors, i1Match, ProfileMaker, and MonacoPROFILER, includes both a wizard for easy setup and an "advanced" mode that grants you complete control of the user-driven interface to create precise, high-quality custom color profiles for your monitors, printers, and projectors.

The software’s i1Prism engine, which leverages a unique iterative profiling technology, tightly dihals into the
user's specific printer and paper combination so professional photographers can experience the highest quality color results. i1Profiler lets you save and reuse assets and settings — and share them with others — with the ease of drag-and-drop operation. Palette information and other color data is shared using X-Rite's Color Exchange Format.

For quality assurance, i1Profiler includes visual and measurement-based validation and verification functions. Also included with i1Photo Pro is the ColorChecker proof target that's perfect for direct viewing against a printed target. The 24-patch target provides immediate visual verification of profile output results.

The bundled Pantone Color Manager software dynamically keeps all digital Pantone color libraries up to date and ready to use in Adobe and Quark applications. i1Profiler software is tightly integrated with Pantone Color Manager to give you seamless access to all Pantone colors, for precise matching of spot colors and accurate reproduction of same. Multiple color-space selections are available. The Pantone Color Management software can be used to ensure the faithful reproduction of brand-specific color for corporate photography projects.

**i1Pro Device**

Industry-standard i1Pro spectrophotometer provides super-fast measurements and fluid patch recognition for both emissive (monitors) and reflective (print) profiling, so you can profile your monitors, projectors, and RGB printers.

Capture both flash and ambient light conditions, as well as spot colors from almost any surface.

Supported measurement modes for spectral measurement device: Reflectance single measurement, Reflectance scanning measurement with automatic patch detection, Emission radiance measurement (monitor measurement), Emission irradiance measurement (light measurement)

Spectral analyzer features holographic diffraction grating with 128-pixel diode array.

**i1Profiler Software for Monitor**

Display true colors on each of your LCD, CRT, and laptop monitors, and use workgroup match to use reference points to match all monitors.

Select from unlimited gamma, white point, and luminance settings — also measure other displays or light sources and use as targets.

Optimize gray balance for more neutral and better-defined grays, in any lighting condition.

Chromatic adaptation formula for a closer visual match of different monitors (or of different settings on one monitor) with different white points.

Preview "before" and "after" results with supplied image or your own.

Validate monitor performance and view trends with included quality-control functionality Monitor Quality Assurance.

Profile summary report is ideal for post profile analysis.

X-Rite's Automatic Display Calibration (ADC) can be used to control and adjust display hardware settings automatically.

Profile reminder to ensure true and reliable color over time.

**i1Profiler Software for Digital Projector**

Digital projector profiling for accurate projected color, to display your work exactly as you intend it to be seen.

Build an accurate on-screen profile in just a few minutes, just as easy as building a monitor profile.

Takes room conditions into consideration when creating profile: projected colors, screen color, and room lighting.

Designed for the non-technical creative user.

Includes custom beamer holder for hands-free use.

**i1Profiler Software for RGB Printer**

Intelligent, iterative profiling technology ensures your output is reproduced accurately from print to print and printer to printer.

Optimize profiles based on your images for specific colors, black & white, or flesh tones, for PANTONE.
Rotatrim 54" Mastercut Professional Rotary Cutter

Price: $564.99

Product Highlights
- Robust and Reliable
- Laminated MDF-Gridded Baseboard
- Self-Clamping Strip Secures the Work
- Precision Side Rule and Cursor
- Twin Chrome-Plated Steel Guide Rail
- Virtually Maintenance-Free
- Self-Sharpening Blades

Overview

The Rotatrim Professional (Mastercut) range of rotary cutters are the ones by which all others are judged. Over 250,000 are in use worldwide; in schools, offices, studios and darkrooms, where their sturdy construction is rigorously tested, day-in, day-out.

With cut lengths from 12" (305mm) to 54" (1374mm) each model features unique chromed steel twin guide rails, silent glide action and all-metal cutting head and end frames.

Each Professional is screen-printed with a 10mm grid, "A" size indicators and two additional metric/inches scale bars.

A full range of accessories is available.

These smooth running "M" Series Professional Rotatrim Trimmers are designed to withstand high volume applications and will handle virtually all flexible materials up to 3.0mm thickness (depending on model).

See any errors on this page? Let us know.
Hoya 77mm Ultraviolet UV (C) Haze Multicoated Filter

**Price:** $29.99

**Overview**
The Hoya 77mm Ultraviolet UV (C) Haze Filter is a wise initial investment. It helps protect your valuable investment from dust, moisture and scratches, which can lead to costly repairs. The "C" on the filter ring designates Hoya's thinner design for this filter. This filter has its UV properties in the multi-coating. The result is an average light transmission of over 97% giving sharp contrast and well balanced color. Hoya HMC filters are recommended for enhancing the performance of today's multicoated digital lenses.

**Multicoated** to minimize reflection at the filter surfaces which reduces flare and ghosting.

**Specifications**
- Thinner "C" Mount Design
- Standard UV Filter
- Minimizes Bluish Cast
- Protects Lens Element
- Glass
- Black Filter Ring

**Essential Accessories**
- Filter pouch
  - [Pearstone - Four Filter Pouch (37mm to 82mm)]
  - **Price:** $9.95

- Care & Cleaning
  - [Pearstone - Microfiber Cleaning Cloth, 18% Gray (7 x 7.9")]
  - **Price:** $4.99

- Caps & Wrenches
  - [Sensei - 77mm Filter Stack Caps]
  - **Price:** $14.95

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Why Shop at B&H
## See what you’ve been missing
See how Adobe® Photoshop® Lightroom® 4 software compares to previous versions.

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## Get the best from every image

| Highlight and shadow recovery           |             |             | ✔           |
| White balance brush                    |             |             | ✔           |
| Additional adjustment brush options    |             |             | ✔           |
| Advanced noise reduction               |             |             | ✔           |
| Film grain simulation                   |             |             | ✔           |
| Lens correction                        |             |             | ✔           |
| Perspective correction                  |             |             | ✔           |
| Selective editing brush                |             |             | ✔           |
| Nondestructive environment             |             |             | ✔           |
| Superior image processing              |             |             | ✔           |
| Tracking of editing adjustments         |             |             | ✔           |
Before-and-after comparison  
Advanced black-and-white conversion  
Simplified tone curve tools  
Advanced hue, saturation, and luminance editing  
Intelligent sharpening  
Dust-busting  
Red-eye removal  

Share effortlessly  
Photo book creation  
Video publishing  
Soft-proofing  
Direct email support  
Enhanced online sharing integration  
Improved customizable print packages  
Portable, easy-to-share video slide shows  
Flexible online publishing directly from Lightroom  
Integration with Flickr®, a Yahoo! service  
HTML or Adobe Flash® Player compatible web gallery output  
One-click publishing to your website  

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Print
Compare Adobe® Photoshop® CS6 software to earlier versions; consider an Adobe Creative Suite® 6 edition or Adobe Creative Cloud™ membership; check your upgrade eligibility; and learn about individual subscription options.

Are you a student or educator? Save up to 80% through education pricing.

Product comparison  Version comparison  Upgrades  Subscriptions

### See what’s inside
View pricing and components of each Creative Suite 6 edition and Creative Cloud membership.

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* For annual commitment.
† Select Edge Tools & Services are free in the free level of Creative Cloud membership.
‡ Adobe Bridge and Media Encoder are included with certain Creative Suite 6 software editions and creative professional products.
§ One private app free with free level of Creative Cloud membership.

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Manfrotto 294 Aluminum 3-Section Tripod W/3-Way Head

Price: $169.99

Calculate Shipping
In Stock
BBH # MAMK294A3D3JR
Mfr# MK294A3-D3RC2

[40 reviews] write a review

Product Highlights
- 3-Section Aluminum Legs
- Weighs Just 5.62 lb (2.55 kg)
- Anti-Shock Collar
- Maximum Height of 5.93’ (1.81 m)
- Minimum Height of 1.69’ (51.7 cm)
- Maximum Load Capacity of 11 lb (5 kg)

Overview
The 294 Aluminum 3-Section Tripod W/3-Way Head from Manfrotto, the largest in the 294 tripod line, comes with the 804RC2 3-way head and provides a solid camera support. A maximum height of 5.93’ (1.81 m), load capacity of 11 lb (5 kg), anti-shock collar, minimum height of 1.69’ (51.7 cm), and weight of just 5.62 lb (2.55 kg) make this an excellent choice for a mobile photographer needing maximum support with minimum weight.

3-section aluminum tripod with a panhead
Anti-shock collar protects your camera from accidental impact

Maximum height of 5.93’ (1.81 m)
Minimum height of 1.69’ (51.7 cm)
Maximum load capacity of 11 lb (5 kg)
Weighs 5.62 lb (2.55 kg)

Why Shop at B&H
Lowepro Nova 180 AW Shoulder Bag (Black)

Price: $48.00

Overview

The Lowepro Nova 180 AW Shoulder Bag (Black) is a rugged 840 denier nylon and 600 denier polyester bag with adjustable padded dividers and silver stitched hinges. It has an overflap lid to increase protection from the elements and a 360° All Weather Cover that offers maximum protection against rain, dust, and sand while also providing full access to gear. There is an exterior front zippered pocket that provides easy access to cables, adapters, and other digital accessories. Dual memory card pockets on the interior of the lid can keep memory cards in the same place every time. There are other interior and exterior pockets for accessories. The bag can be carried by a cushioned grab handle or removable, adjustable shoulder strap with non-slip pad.

Specifications

- Fits D-SLR Camera and 4-5 Lens Kit
- Rugged Nylon and Polyester Bag
- Adjustable Padded Dividers
- All Weather Cover
- Exterior Front Zippered Pocket
- Dual Memory Card Pockets
- Cushioned Grab Handle
- Removable Adjustable Shoulder Strap

What's in the Box

Rugged 840 denier nylon and 600 denier polyester bag with 200 denier polyester interior

Single compartment design enables easy and secure access to camera and accessories

Adjustable padded dividers and stitched hinges

Overflap lid to increase protection from the elements

360° All Weather Cover offers maximum protection against rain, dust, and sand while also providing full access to gear

Customer Reviews

Customer Reviews

Accessories

Memory Card Wallets

Lowepro - DMC-Z Compact Slim Digital Memory Pouch

Price: $8.95

Carrying options

- Cushioned grab handle
- Removable, adjustable shoulder strap with non-slip pad
- Luggage sleeve fits over rolling luggage handle
Lowepro Nova 180 AW Shoulder Bag (Black)
B&H #LON180AWB • Mfr #LP35256-PEU Free Shipping (USA) Qty: 10
Price: $48.00
Item Total: $480.00

Manfrotto 294 Aluminum 3-Section Tripod W3-Way Head
B&H #MANK294A3D3R • Mfr #MK294A3-D3RC2 Qty: 20
Price: $169.99
Item Total: $1,699.90

Square Trade Protection Plan:
- 2 Year Drops & Spills $30.99
- 3 Year Drops & Spills $40.99

Hoya 77mm Ultraviolet UV (C) Haze Multicoated Filter
B&H #HOUVMC77 • Mfr #A77UVC Free Shipping (USA) Qty: 10
Price: $29.99
Item Total: $179.94

Rotatrim 54" Mastercut Professional Rotary Cutter
B&H #ROM54 • Mfr #RC ROM54 Free Shipping (USA) Qty: 2
Price: $564.99
Item Total: $1,129.98

X-Rite i1Photo Pro Professional Color Management for Photographers
B&H #XREPHO • Mfr #EOPHO Free Shipping (USA) Qty: 1
Price: $1,399.00
Item Total: $1,399.00

Square Trade Protection Plan:
- 2 Year Protection Plan $83.99
- 3 Year Protection Plan $179.99

Apple 27" LED Cinema Display
B&H #APLED27 • Mfr #MD07LL/A Free Shipping (USA) Qty: 4
Price: $899.00

Important Notice!
This display can only be used with computers that feature a Mini DisplayPort connector.
Apple Mac Pro Intel Xeon Quad-Core Desktop

Price: $2,286.34

Save $89.99 on Filemaker Bento 4 & Parallels 8 for Mac

Hasselblad Flexlight X1 Scanner

Price: $15,995.00

Square Trade Protection Plan:
- 2 Year Protection Plan: $779.99
- 3 Year Protection Plan: $1,199.99

Square Trade Protection Plan:
- 2 Year Drops & Spills: $98.96
- 3 Year Drops & Spills: $127.99

Canon Speedlite 600EX-RT

Price: $569.00

Canon EOS 5D Mark III Digital Camera Kit with Canon 24-105mm f/4L IS USM AF...

Price: $3,699.00

Exclusive Membership Offers

NAPP Membership

Kelby Training Online Courses

Kelby Training Books & Tutorials

* Kelby Memberships are available for new Kelby customers only.

Square Trade Protection Plan:
- 2 Year Drops & Spills: $439.96
- 3 Year Drops & Spills: $569.99

Item Total: $3,596.00

Item Total: $6,859.02

Item Total: $15,995.00

Item Total: $5,690.00

Item Total: $3,699.00

Item Total: $38,990.00
Go To

Memory Card Wallets

Lowepro - DMC-Z Compact Slim Digital Memory Pouch
(37 reviews)
B&H # LODMCZ | Mfr # LP34080-0AM
Price: $8.95

Calculate Shipping & Tax:

Country: USA
Zip Code: 98225

Choose a Shipping Method

- STANDARD
  Up to 8 Business Days
  Free

- UPS Ground
  Estimated Delivery: Thu, Dec 13
  $954.85

- UPS 3 Days
  Estimated Delivery: Tue, Dec 11
  $1,670.60

- UPS 2-Day Air
  $2,160.40

SubTotal: $74,018.84
Sales Tax: $0.00
Shipping: $954.85
Order Total: $74,973.69