

# MassArt Animation Department Gear Recommendations – v8/15/2015

*These are recommendations not requirements – Don't Panic!*

Write your name / phone number on all your equipment in case it is lost / stolen it can be returned to you.

Never leave any of your equipment unattended at anytime.

## Contents:

### 1. Strongly Recommended:

- 1a. External Hard drives
- 1b. Headphones (Don't use ear buds they are terrible.)
- 1c. Peg bars

### 2. Recommended but not required:

- 2a. Computer
- 2b. Software

### 3. For your information

A lot of students (and non-students for that matter) ask what our basic animation shooting set-up is, well look no further.

- 3a. Our Basic Animation Photography Set-Up  
This is a listing of what we have for our basic shooting stations at school.

Specifications may change without notice.

## See details on all of this below...

These are sound recommendations, but you should still do your own research. If you have any questions contact the faculty or Adam.

Adam

Adam P. Savje  
Studio Manager - Animation Department  
Office Tower Room 729a  
Massachusetts College of Art & Design  
621 Huntington Avenue Boston, MA 02115  
[adam.savje@massart.edu](mailto:adam.savje@massart.edu) / 617.879.7295

**Department Website with more detailed information:**

[http://inside.massart.edu/Academic\\_Resources/Studios\\_and\\_Labs/Animation\\_Department.html](http://inside.massart.edu/Academic_Resources/Studios_and_Labs/Animation_Department.html)

## Details

### 1. Strongly Recommended:

#### 1a. External Hard drives

There are two kinds of hard drives in the world:

Those that are dead.

Those that are about to die.

1 you keep at home, never move and back up all your stuff on everyday.

1 you travel with.

**7200rpm only!** on any hard drive never get anything else (5400rpm is BAD), other than Solid State.

**DO NOT BUY 5400RPM DRIVES!**

Solid State drives have no rpm or moving parts they are faster, but have lower capacity and are more expensive.

7200rpm refers to how fast the disc rotates in the hard drive, the faster the rotation the faster your access times are. 7200rpm is a minimum for moving image work.

Solid state is a new technology that has no moving parts and much faster access times, but they are more expensive for less capacity. They are the best.

USB3.0 or Thunderbolt connection is best. Having multiple connections is vital in case a port fails. You have another port to get your data off.

#### Hard drive health tips

Always eject your hard drive before unplugging from the computer otherwise you run the risk of corrupting your data.

Do not drop the hard drive!

Stay away from Lacie drives!

I recommend Other World Computing, Seagate, Western Digital (check online reviews)

#### Recommended:

##### Home Drives:

7200rpm, various sizes (the larger the better)

[http://eshop.macsales.com/shop/firewire/1394/USB/EliteAL/eSATA\\_FW800\\_FW400\\_USB](http://eshop.macsales.com/shop/firewire/1394/USB/EliteAL/eSATA_FW800_FW400_USB)

##### Travel Drives:

1 TB 7200rpm has USB3.0 & FireWire 800

<http://eshop.macsales.com/item/Other%20World%20Computing/MEF3MH7T1.0/>

480 Gb Solid State Drive has USB3.0 & FireWire 800

<http://eshop.macsales.com/item/Other%20World%20Computing/MEF3MSSD480/>

#### A note about thumb drives:

They are useful but unstable, they are great to transport files.

Don't use them as permanent storage and always back them up constantly because...

**THEY WILL RANDOMLY DIE!**

## 1b. Headphones (Don't use ear buds they are terrible.)

Get something better than ear buds.

Here are some decent headphones with a range of prices...

Sennheiser HD 202-II Closed-Back On-Ear Stereo Headphones around \$25

[http://www.bhphotovideo.com/c/product/751924-REG/Sennheiser\\_HD202\\_II\\_HD\\_202\\_II\\_Closed\\_Back\\_Around\\_Ear.html](http://www.bhphotovideo.com/c/product/751924-REG/Sennheiser_HD202_II_HD_202_II_Closed_Back_Around_Ear.html)

Sony MDR-7502 Supra-Aural Closed-Back Professional Monitor Headphone around \$40

[http://www.bhphotovideo.com/c/product/49508-REG/Sony\\_MDR\\_7502\\_MDR\\_7502\\_Headphone.html](http://www.bhphotovideo.com/c/product/49508-REG/Sony_MDR_7502_MDR_7502_Headphone.html)

Audio-Technica ATH-M30x Monitor Headphones Around \$69

[http://www.bhphotovideo.com/c/product/1024220-REG/audio\\_technica\\_ath\\_m30x\\_closed\\_back\\_professional\\_studio.html](http://www.bhphotovideo.com/c/product/1024220-REG/audio_technica_ath_m30x_closed_back_professional_studio.html)

Sennheiser HD 558 Open-Back Around-Ear Stereo Headphones \$110

[http://www.bhphotovideo.com/c/product/751985-REG/Sennheiser\\_HD558\\_HD\\_558\\_Open\\_Back\\_Around\\_Ear.html](http://www.bhphotovideo.com/c/product/751985-REG/Sennheiser_HD558_HD_558_Open_Back_Around_Ear.html)

## 1c. Peg bars

Plastic cheap peg bar – make sure it has **ACME** pegs! They are \$4.00 and are also sold at the Museum School Store, get a bunch, you never know when you need them. Write your name on them!

<http://www.lightfootltd.com/content/acme-pegbar-plastic>

## 2. Recommended but not required:

### 2a. Computer

We are an Apple based department. Some students work on windows machines but we do not offer any support.

#### Basic specifications

Apple MacBook Pro laptop with i7 Chip

7200rpm Internal hard drive or a SSD - Solid State drive. Solid State is better and most of the MacBook Pro's it is the default.

512Gb or more in drive capacity is recommended. If you can afford it upgrade to a 1 Tb SSD Drive. 512Gb is ok if you store your data on an external hard drive, but your hard drive should have a USB3.0 or thunderbolt connection.

**DO NOT BUY 5400RPM DRIVES!**

At least 16Gb of RAM, the more the better.

The best video graphics card you can afford with the most onboard RAM you can afford

Here is an example of a good laptop:

I recommend AppleCare as well.



**15-inch MacBook Pro with Retina display** \$2,929.00  **\$2,929.00**

Available to ship: 5-7 business days

[Remove](#)

Part number: Z0RG

#### Hardware

- 2.8GHz Quad-core Intel Core i7, Turbo Boost up to 4.0GHz
- 16GB 1600MHz DDR3L SDRAM
- 1TB PCIe-based Flash Storage
- Intel Iris Pro Graphics + AMD Radeon R9 M370X with 2GB GDDR5 memory
- Force Touch trackpad
- Backlit Keyboard (English) & User's Guide
- Accessory Kit

 [Show Gift Options](#)

#### Software

- Pages, Numbers, Keynote
- Photos, iMovie, GarageBand
- OS X

#### Services and Support



AppleCare Protection Plan for MacBook Pro – Auto-enroll

**\$239.00**

Automatically registered with your Apple Hardware.

[Remove](#)

## 2b. Software

**Do not bootleg software! It is not worth it and will not be supported!**

### **DZED Systems - Dragonframe**

Our Stop Motion software that we use for all image capture:

<http://www.dragonframe.com/>

Dragonframe connects to a digital SLR camera that has “Live View” capability via a USB cable. It is absolutely the best most professional stop-motion animation software out there.

Student Discount (\$100.00 off!)

<http://www.dragonframe.com/tt/student.php>

Fantastic academic deals on ADOBE and other software.

[http://inside.massart.edu/Technology/Purchasing\\_Deals.html](http://inside.massart.edu/Technology/Purchasing_Deals.html)

### **Adobe Software**

Discounted Creative Cloud subscriptions are available for students.

Student subscriptions are \$19.99 per month for the first year only, and \$29.99 per month thereafter. This is discounted from the \$49.99 per month regular price. Students may purchase Adobe Creative Cloud licenses with an educational discount here:

<http://www.adobe.com/creativecloud/buy/students.html>

Creative Cloud contains all the Adobe software we use.

### **AutoDesk Software**

AutoDesk engineering and design products, are free for faculty and students. You may need to register with Autodesk, Apple (for products through the App Store), or others.

[Autodesk software for Higher Ed.](#)

Autodesk MAYA is what we use in the Animation Department.

### 3. For your information

#### 3a. Our Basic Photography Setup

##### Camera

Canon T5i & 18-55mm Zoom Lens Kit

[http://www.bhphotovideo.com/c/product/945054-REG/canon\\_8595b003\\_eos\\_dig\\_rebel\\_t5i.html](http://www.bhphotovideo.com/c/product/945054-REG/canon_8595b003_eos_dig_rebel_t5i.html)

##### USB Extension Cable

Prudent Way USB Extension Cable (16')

[http://www.bhphotovideo.com/c/product/995490-REG/prudent\\_way\\_pwi\\_usb\\_ext\\_16\\_16\\_usb\\_extension\\_cable.html](http://www.bhphotovideo.com/c/product/995490-REG/prudent_way_pwi_usb_ext_16_16_usb_extension_cable.html)

##### Lens

Canon 60mm Macro Lens

(Note different lenses have different fields of view, this lense is for small artwork, see our lens guide on the Animation Department website for more detail.)

[http://www.bhphotovideo.com/c/product/371176-USA/Canon\\_0284B002\\_EF\\_S\\_60mm\\_f\\_2\\_8\\_Macro.html](http://www.bhphotovideo.com/c/product/371176-USA/Canon_0284B002_EF_S_60mm_f_2_8_Macro.html)

##### Filters

UV Protection & polarizing Filter Kit for 60mm Macro Lens

Tiffen 58mm Photo Twin Pack (UV Protection and Circular Polarizing Filter)

[http://www.bhphotovideo.com/c/product/72725-REG/Tiffen\\_58PTP\\_58mm\\_Photo\\_Twin\\_Pack.html](http://www.bhphotovideo.com/c/product/72725-REG/Tiffen_58PTP_58mm_Photo_Twin_Pack.html)

UV Protection & polarizing Filter Kit for 18-55mm Zoom Lens

Tiffen 52mm Photo Twin Pack (UV Protection and Circular Polarizing Filter)

[http://www.bhphotovideo.com/c/product/72723-REG/Tiffen\\_52PTP\\_52mm\\_Photo\\_Twin\\_Pack.html](http://www.bhphotovideo.com/c/product/72723-REG/Tiffen_52PTP_52mm_Photo_Twin_Pack.html)

##### Lights

Lowel Pro Lights Kit (2 Fixtures)

[http://www.bhphotovideo.com/c/product/284109-REG/Lowel\\_DV\\_Pro\\_light\\_Two\\_Light\\_Kit.html](http://www.bhphotovideo.com/c/product/284109-REG/Lowel_DV_Pro_light_Two_Light_Kit.html)

Lowel Pro/i-light Gel Frame

[http://www.bhphotovideo.com/c/product/158996-REG/Lowel\\_IP\\_40\\_Pro\\_i\\_light\\_Gel\\_Frame.html](http://www.bhphotovideo.com/c/product/158996-REG/Lowel_IP_40_Pro_i_light_Gel_Frame.html)

FSH 125v Lamp (1 needed for each fixture.)

[http://www.bhphotovideo.com/c/product/610321-REG/Impact\\_FSH\\_FSH\\_Lamp\\_125W\\_120V.html](http://www.bhphotovideo.com/c/product/610321-REG/Impact_FSH_FSH_Lamp_125W_120V.html)

##### Gels

Rosco Diffusion Filter Kit (12 x 12")

[http://www.bhphotovideo.com/c/product/1100312-REG/rosco\\_110120120001\\_diffusion\\_filter\\_kit\\_12.html](http://www.bhphotovideo.com/c/product/1100312-REG/rosco_110120120001_diffusion_filter_kit_12.html)

Rosco Color Correction Filter Kit (12 x 12")

[http://www.bhphotovideo.com/c/product/1100313-REG/rosco\\_110118120001\\_color\\_correction\\_filter\\_kit.html](http://www.bhphotovideo.com/c/product/1100313-REG/rosco_110118120001_color_correction_filter_kit.html)

Rosco CalColor Filter Kit (12 x 12")

[http://www.bhphotovideo.com/c/product/1100314-REG/rosco\\_110116120001\\_calcolor\\_filter\\_kit\\_12.html](http://www.bhphotovideo.com/c/product/1100314-REG/rosco_110116120001_calcolor_filter_kit_12.html)

Rosco Photo Lighting Filter Kit (12 x 12")

[http://www.bhphotovideo.com/c/product/1100317-REG/rosco\\_110110120001\\_rosco\\_photo\\_lighting\\_filter.html](http://www.bhphotovideo.com/c/product/1100317-REG/rosco_110110120001_rosco_photo_lighting_filter.html)

Rosco Color Effects Filter Kit (12 x 12)

[http://www.bhphotovideo.com/c/product/1100309-REG/rosco\\_110124120001\\_color\\_effects\\_filter\\_kit.html](http://www.bhphotovideo.com/c/product/1100309-REG/rosco_110124120001_color_effects_filter_kit.html)

Rosco Polarizing #7300 Filter - 17x20" Sheet

[http://www.bhphotovideo.com/c/product/45130-REG/Rosco\\_101073001720\\_Polarizing\\_7300\\_Filter.html](http://www.bhphotovideo.com/c/product/45130-REG/Rosco_101073001720_Polarizing_7300_Filter.html)

Samigon Ban-Glare Polarizer - 12x12" Mounted (Need 2, 1 for each fixture)

[http://www.bhphotovideo.com/c/product/101849-REG/Samigon\\_CSA997\\_Ban\\_Glare\\_Polarizer\\_12x12.html](http://www.bhphotovideo.com/c/product/101849-REG/Samigon_CSA997_Ban_Glare_Polarizer_12x12.html)

### **Copy Stand**

Beseler Copy Stand

[http://www.bhphotovideo.com/c/product/197255-REG/Beseler\\_4211\\_02\\_CS\\_Digital\\_Photo\\_Video\\_Copy\\_Stand.html](http://www.bhphotovideo.com/c/product/197255-REG/Beseler_4211_02_CS_Digital_Photo_Video_Copy_Stand.html)

### **Inexpensive Copy Stand**

Stand

[http://www.bhphotovideo.com/c/product/438353-REG/RPS\\_Lighting\\_RS\\_CS920\\_Copy\\_Stand.html](http://www.bhphotovideo.com/c/product/438353-REG/RPS_Lighting_RS_CS920_Copy_Stand.html)

Lights for stand

[http://www.bhphotovideo.com/c/product/438355-REG/RPS\\_Lighting\\_RS\\_C150\\_Copy\\_Light\\_Set.html](http://www.bhphotovideo.com/c/product/438355-REG/RPS_Lighting_RS_C150_Copy_Light_Set.html)

Bulbs for lights

[http://www.bhphotovideo.com/c/product/74800-REG/Eiko\\_PH\\_211\\_Light\\_Bulb\\_75.html](http://www.bhphotovideo.com/c/product/74800-REG/Eiko_PH_211_Light_Bulb_75.html)