Ryan Trecartin *Item Falls* (2013)

Technical information and installation instructions

VIDEO FILE SPECIFICATIONS

The master movie file is an Apple ProRes 4444 encoded QuickTime file with resolution of 1920 x 1080p, 29.97 fps, RGB and 32 bit Stereo (duration 25 min 44 seconds). This file may be used for exhibition, or for the production of different formats required by various screening environments (e.g. a DCP in the case of theatrical exhibition).

You will have received from EAI a copy of the above file, or an alternative file compressed to suit your requirements.

MOVIE DISPLAY

Preferred image size
When installed in a gallery or museum for public exhibition, the movie should be displayed by projector at the largest size that is comfortable for the projection wall i.e. the projected image should feel large and encompassing, with some space remaining on each side of the image as a reasonable margin, with a larger projection wall proportionately demanding larger margins.

As a rough guide, the height of the projected image should be around 4/5 of the height of the wall, and the remaining space (1/5 of the wall height) should be split about 2/3 below and 1/3 above the image. For example: a room with 15 foot high ceilings could have a 12 foot high projected image, with its bottom edge 2 feet from the ground and its top edge 1 foot from the ceiling (see image on following page)

1' (= 1/3 of 3')

15' 12' (= 4/5 of 15)

2' (= 2/3 of 3')
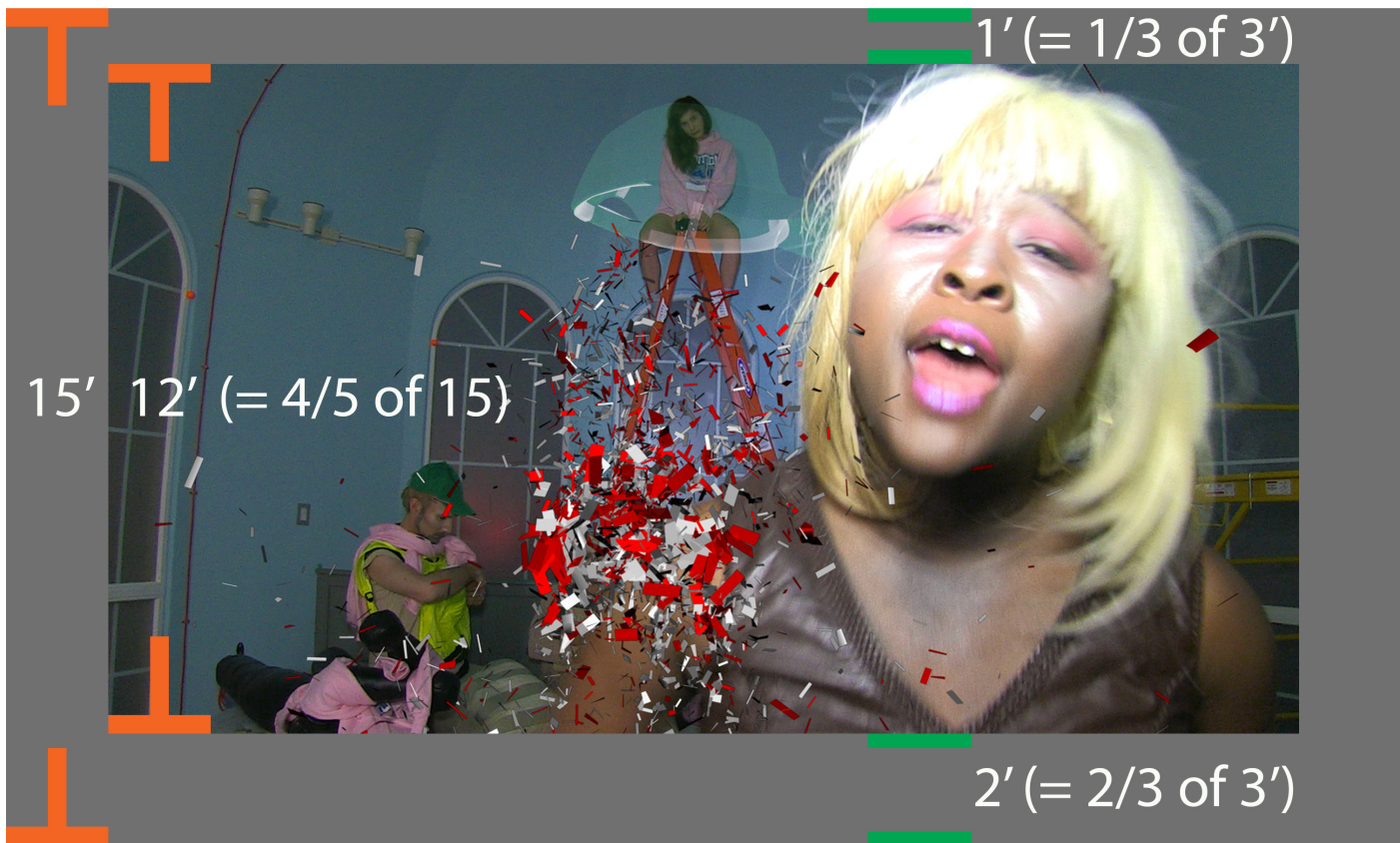
The preferred minimum size for projections of *Item Falls* is 12 feet wide (6 feet, 9 inches high). Due to this size requirement, projection is the requested display method (for more on projector specifications see **DISPLAY EQUIPMENT** section below).

In the case that there are strong contextual or curatorial reasons why it is desirable, it is acceptable to install the movie on a large-screen monitor. If shown on a monitor, the display should preferably be an LED backlit LCD TV with full array local dimming, and a minimum diagonal measurement of 55 inches.

Preferred room size
Taking into account the minimum projection sizes described above, the minimum size room for exhibiting *Item Falls* should be approx. 16' x 16' wide, with walls that are approx. 9' high (assuming a square room). In considering a maximum, the effect of the size of the installation space on the quality of the sound reproduction should be the most important consideration. A bigger space will generally be preferable to a smaller space up to the point where the size of the space begins to negatively affect clean and clear sound reproduction, or unless there are specific reasons why the sound will be better in the smaller space (i.e. constraints due to general exhibition design).

For more information on sound installation, see **SOUND EQUIPMENT** section below.
For more information on room preparation, see **EXHIBITION SPACE** section below.

VIDEO DISPLAY EQUIPMENT

Projector with a native display resolution of 1920 X 1080: The display technology should preferably be 3LCD or LCoS (but should *not* be single-chip DLP). For small to medium-sized installation spaces the projector should have a brightness rating of 3000 ANSI lumens or more. For installations at the large end of the spectrum, or in situations where ambient light cannot be avoided, a brighter projector will likely be needed. The Artist has had good experiences with the color reproduction of Panasonic and Canon brand projectors.

VIDEO DISPLAY EQUIPMENT cont.

Important note regarding projector specifications: The choice of projector display technology has been guided by preferences in color reproduction. The work was created on LED-backlit active-matrix LCD monitors, and the desire has been to find projectors that more easily recreate the effect on color of the specific combination of brightness, contrast, image stability, and color gamut provided by these displays. The color reproduction of single-chip DLP projectors in this respect is poor, which is why the Artist prefers 3LCD and LCoS projectors.

Video source (computer or Blu-ray player) capable of processing the included media: In the case that the ProRes 4444 encoded file is used for playback in an exhibition setting, it is important to consider the high data-rate required for image processing (~330 Mbps) and use a computer configuration that will handle this successfully over the course of the exhibition. For reference, if a MacMini is used it should be configured with enough RAM to allow for the maximum allotment of memory to VRAM, as system memory is shared with the graphics processor (in current models this means more than 4GB), and a solid-state drive (either internal or Thunderbolt-connected external) is recommended.

SOUND EQUIPMENT

The Artist's preference is for the movie's sound to be played through open speakers. Exact details of the speaker system will depend upon the size of the installation space, however the minimum requirement is two full-range speakers, a subwoofer, and an appropriate amplifier. The speakers used should have a relatively flat frequency response curve over the range of 50 Hz - 20 kHz for accurate reproduction of the sound. A subwoofer should be included to bring out the low end of the movie sound.

If there are reasons in the context of the exhibition why playing the sound out loud is problematic, it is possible to use headphones for the movie soundtrack. The headphones used should be comfortable, closed-ear headphones with a good response at low frequencies, such as the Audio Technica ATH-M50. The number of headphones required is dependent on the seating and expected audience traffic. It will be necessary to use one or more headphone amplifiers, such as the Tascam MH-8.

Important notes regarding sound: In sound reproduction, the equipment used should maintain a strong response at the low end of the frequency spectrum and a generally flat response curve otherwise, in order to accurately reproduce the sound mix. Making sure the speaker system is arranged optimally for the acoustics of the room is of great importance – it may be necessary to install soundproofing materials to the room, and/or frequency equalization controls to the sound system. Sound levels should be loud, though not uncomfortable.

EXHIBITION SPACE

Room
The installation should preferably inhabit a closed space with no ambient light leakage, and minimal sound leakage. The walls of the room should be grey or black. The projection surface should be finished with a high-contrast, reflective paint intended for displays, such as Screen Goo. The display and sound equipment should not be overly visible, but it is not necessary that it be completely hidden either.

Seating
The seating should be grey or black. For installations with smaller seating requirements, small armchairs could be used; for installations where more visitors are expected, stools (with a back) and/or small couches are suggested. Seating should not look like office furniture. Overall, the choices of seating should aim for comfort and neutrality, unless the selection is done in consultation with the Artist.

Carpet
The space should be carpeted to diminish the noise of foot traffic, and avoid excessive echo from the movie sound. The carpet should be dark grey, with a densely woven, low pile loop. Wherever the budget allows, a carpet underlay should also be used.