

JULY 2015

# TIME SLICE CAMERA ARRAY

## SUMMARY OVERVIEW

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## ***Time Slice* systems -**

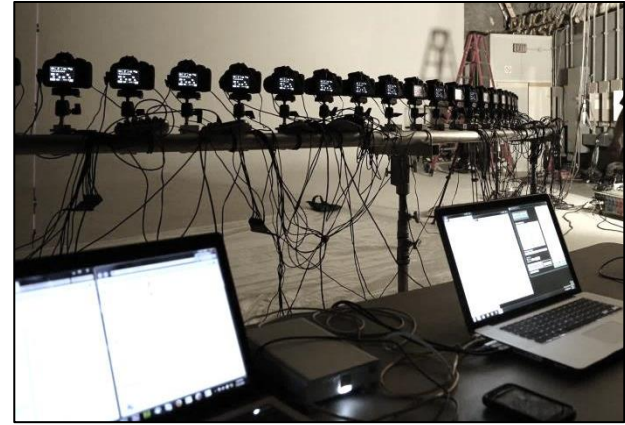
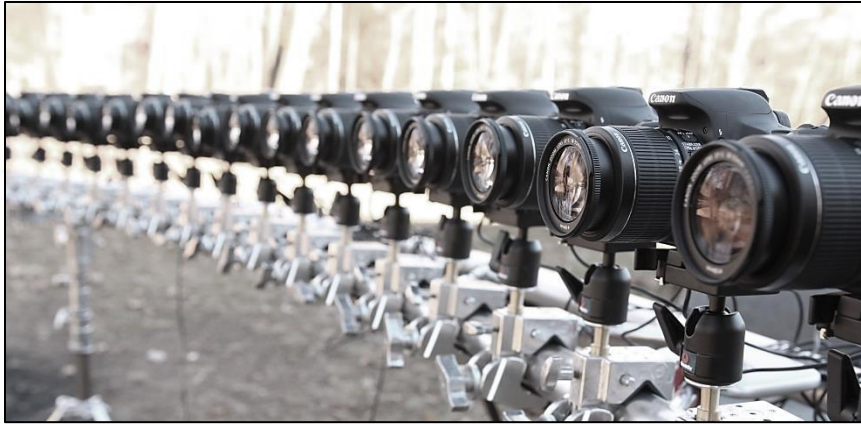
- also known as bullet time, stop time, or time freeze – implement a camera array that ranges anywhere from 24 to 150+ cameras to create an effect of stopped time or extremely slowed time. Although the process was pioneered decades prior, it was widely popularized by the Matrix films directed by the Wachowski Brothers and has since been used more regularly in film production.

Since these systems are not mass produced, each rig is custom - operating with its own camera control protocols, post-processing, and filming techniques refined through many stages of development. This overview focuses on the *Time Slice* system created and operated by director of photography, ***Mitch Martinez***, and his team.

### **THE CAMERAS**

Our system is made up of 50 Canon DSLR cameras; in the array, each camera captures a single frame in 5K RAW + JPEG format (*max resolution 5184 x 3456*). By shooting in both RAW and JPEG format, optimal workflow can be achieved while maintaining maximum quality final results. JPEG format images allow fast on-set processing to review the shots - while the RAW format yields maximum quality for editing and post work. Adding real-time or slow motion with RED Epic or other available cameras, motion imagery can be incorporated to start and/or finish a time slice camera move.





## THE SOFTWARE

Custom camera control software allows extra cameras to be added as needed – allowing the rig to expand for projects that require more coverage. In addition to actuating the precision camera triggering, the software also controls aperture, shutter speed, ISO, format, and image control parameters such as color temperature, saturation, sharpness, and hue. By using a networked dual laptop system on set, the primary computer controls the camera array while the second computer does on-set processing of the captured image sets. Each computer performs the assigned dedicated tasks independently to maximize processor functionality. Files are saved to both SSD drive and external Thunderbolt drive for expedited file redundancy.

## THE RIG

Industry standard trussing and grip gear is used in conjunction with various custom rigging solutions to allow substantial flexibility with positioning, height, and camera movement. Currently working with multiple diameter 360° circles and 120° arcs, and straight track – future rigging and trussing options are only limited by imagination. Optional variations include incline/decline angles, overhead rigging, low angle rigs and more.



## THE OBJECTIVE

Seeing the opportunities for use with film, music videos, commercial + fashion video, marketing campaigns and many more applications, our team aims to provide this high end production imagery for today's film making industry. Much like the drone/multicopter industry developments have helped make aerial footage a readily available solution for the film industry, our team will make the time slice system more accessible to film makers and have it be a part of their productions.

## WORKSHOPS + DEMOS

In addition to our grassroots media campaign set for Aug/Sept 2015, the team will be doing a number of workshops, seminars, and demos at film festivals, industry conventions, and many film schools – giving an opportunity for film professionals to see the time slice system in action, filming techniques, and have a Q&A session.

## THE RESULTS

Visit [mitchmartinez.com/timeslice](http://mitchmartinez.com/timeslice) to see our time slice videos, related projects, and behind the scenes.



## CONTACT

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