# "A new perspective on TV drama footage using drone cameras"

# Lamiaa Fathy Saber Abo-Elnaga

Assistant Professor, Dep. of Photography, Cinea &TV, Faculty of Applied Arts, Damietta University- Egypt, lamiaafathy@du.edu.eg, Lamiaafathy1@yahoo.com

# Eman Abo Elazm Abd Elmged Elkalshy

Lecturer in Department of Photography, cinema & Television, Faculty of Applied Arts - Helwan University - Egypt. manaboelazm2017@gmail.com. Imanaboelazm@a-arts.helwan.edu.eg.

### Abstract:

Drones have become an essential tool for achieving creative shots from unconventional angles, enriching the visual language with their dynamism that resonates with the audience. The importance of this research stems from its highlighting the growing role of drone cameras in television filming and how this technology has transformed the methods and approaches of visual narrative. The research problem was represented by the need for a deeper understanding of how to effectively employ drone cameras from the perspective of a television director of photography to achieve an innovative and engaging visual experience. This research aims to identify the developments this technology has brought about in the television industry and the development of filming methods. This research relies on a descriptive approach to the aesthetics of drone shots and an analysis of drone shots in the series "Awlad Al Shams." Drone shots were not merely a technical tool, but rather an essential part of constructing the dramatic world of the work, enhancing the visual and emotional aspects. In general, the increasing use of drone cameras reflects the development of television drama production in Egypt and its keeping pace with modern technologies. Drone footage offers a variety of angles, lighting, and movement, as well as flexibility in design. It also adds a visual and dramatic dimension, making viewers more immersed in the events. Researchers recommend choosing appropriate movements and planning ahead before filming, using high-quality equipment and editing software (DaVinci Resolve), and adhering to the regulations and laws related to drone use.

#### Paper History:

Paper received February 28, 2025 ,., Accepted April 13, 2025, Published on line July 1, 2025 Keywords:

Drone Cameras, Drones (UAV), Unmanned Aircraft Systems (UAS)

#### **References:**

(1) Chong Huang: Towards a Smart Drone Cinematographer for Filming Human Motion, University of California, Santa Barbara, p.6,2020

(2) Ioannis Mademlis, Charalampos Symeonidis, Anastasios Tefas & Ioannis Pitas," Vision-based Drone Control for Autonomous UAV Cinematography", August 2023

(3) Jones, Mike, 2011 "Camera in Motion Part 2: Means and Methods." Screen Educatio", April 26, 2011, 112–117.

(4) (4) Kyle Deguzman, (2020). What is Aerial Cinematography? Drone Shots and Techniques .

```
Mademlis, I., Nikolaidis, N., Tefas, A., Pitas, I., Wagner, T,.5) (
```

Messina, A.: Autonomous UAV cinematography, (2019): A tutorial and a

formalized shot type taxonomy. ACM Computing Surveys 52(5), 105(2019.(

(6)Manzul KumarHazarika2019 :" Drones and Its Applications", Asian Institute of Technology (AIT), Thailand, P.1

7) Mark Roberts Motion Control (n.d.) 'Cyclops | Mark Roberts Motion Control(

http://www.mrmoco.com/cranes-rigs/products/rigs/cyclops/ accessed June 2015

(8) Masanori Sugimoto, Toshitaka Ito, Tuan Ngoc Nguyen, and Shigenori Inagaki. 2009. GENTORO: A

System for Supporting Children's Storytelling Using Handheld Projectors and a Robot. In Proceedings of the 8th International Conference on Interaction Design and Children (IDC '09 .(

(9) Mirko Gschwindt, Efe Camci, Rogerio Bonatti, Wenshan Wang, Erdal Kayacan, and Sebastian Scherer.

2019. Can a Robot Become a Movie Director? Learning Artistic Principles for Aerial Cinematography. In 2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS .(

(10) N. Joubert, D. B. Goldman, F. Berthouzoz, M. Roberts, J. A. Landay

P. Hanrahan, et. al., Towards a drone cinematographer(2016).: Guiding quadrotor cameras using visual composition principles, arXiv preprint arXiv:1610.01691

(11) Quentin Galvane, Christophe Lino, Marc Christie, Julien Fleureau, Fabien Servant, et al.. (2018):" Directing

Cinematographic Drones", ACM Transactions on Graphics .

(12) S. Sai Pradeep Reddya, Balla Hari Krishnab, Zafar Ali Khan Nc June 2022.,:" ROLE OF UNMANNED AERIAL VEHICLE IN CINEMATOGRAPHY", International Journal of Research Publication and Reviews, Vol 3, Issue 6.

(13)Stephanie Zacharek, (2018). How Drones Are Revolutionizing the Way Film and Television Is Made <u>https://time.com/5295594/drones-hollywood-artists</u>

https://www.autelrobotics.com (14)

 $(15)\ https://www.phoenixdronepros.com/unlocking-cinematic-skies-the-impact-of-drones-in-film-and-television-production$ 

(16)https://www.researchgate.net/publication/305648868\_Robots\_and\_the\_Moving\_Camera\_in\_Cinema\_Te levision\_and\_Digital\_Media

17) https://www.studiobinder.com/blog/aerial-shot-camera-movement-angle (

(18) dictionnaire larousse .drone. on-line at http://www.larousse.fr/dictionnaires/francais/drone/26865

(19) cambridge dictionary .drone..on-line at : http://dictionary.cambridge.org/fr/dictionnaire/anglais/drone

(20) Oxford dictionary. Drone on-line at :

http://www.oxforddictionaries.com/definition/english/drone?q=drones

https://www.dronethusiast.com/history-of-drones) 21(

https://jrupprechtlaw.com/drone-jammer-gun-defender-legal-problems/(22)

23) https://scs.org.sy/?q=scs/infomag/showarticlenode&id=789(

 $(24)\ https://blog.aonic.com/my/blogs-drone-technology/ultimate-guide-on-cameras-sensors-used-in-drones$ 

(25) https://electronicsforu.com/market-verticals/aerospace-defence/designing-drones2019(

https://www.unexploredfilms.com/aerial-uav-and-drone-filming./26) (

http://www.ahrc.ac.uk/newsevents/events/calendar/common-ground/27) (

28) https://www.unexploredfilms.com/aerial-uav-and-drone-filming(

http://www.channel4.com/programmes/drones-in-forbidden-zones) 29(

(30) https://www.linkedin.com/pulse/how-drone-technology-changing-media-industry-appsierra-saqsf

 $(31)\ https://www.carrot.co.uk/stalbans-drone-articles/different-types-of-drone-cameras-and-their-uses.asp$ 

(32) https://c-istudios.com/aerial-cinematography-the-role-of-drones-in-film-production

(33) https://camteec.net/ar/WPpqPz?srsltid=AfmBOoqfpU0-

USIhTkENrMFdrsDUUhYWTKx\_uVa4wNyCTCok9gmlwCld

 $(34)\ https://www.bhphotovideo.com/explora/video/hands-on-review/the-7-best-drones-for-filmmakers .$ 

(35) https://www.parrot.com/en/drones/anafi

(36) https://www.autelpilot.com/collections/evo-ii-pro-v3/products/autel-robotics-evo-ii-pro-6k-

v3?variant=40093115285550

(37)https://dl.djicdn.com/downloads/m600%20pro/20180417/Matrice\_600\_Pro\_User\_Manual\_v1.0. pdf

 $(38)\ https://www.uavfordrone.com/product/powervision-powerray-wizard-underwater-camera-drone$ 

 $(39) https://dl.djicdn.com/downloads/Mavic_Mini/Mavic_Mini_User_Manual_v1.0\_en_1.pdf$ 

40) https://www.dji.com/inspire-3/specs(

 $(41)\ https://www.xdynamics.com/uncategorized/drone-technology-in-film-and-television-production-revolutionizing-the-industry/$ 

42) https://www.dji.com/global/inspire-3(

(43)https://nofilmschool.com/2015/10/video-learn-how-pull-these-5-classic-drone-shots

(44) https://connexicore.com/drone-video-camera-movements-understanding-the-basic- techniques-to-

elevate-your-aerial-storytelling#/ (45) https://www.dji.com/global/inspire-3

**CITATION** Lamiaa Abo-Elnaga & Eman Elkalshy (2025), A new perspective on TV drama footage using drone cameras, International Design Journal, Vol. 15 No. 4, (July 2025) pp 11-29