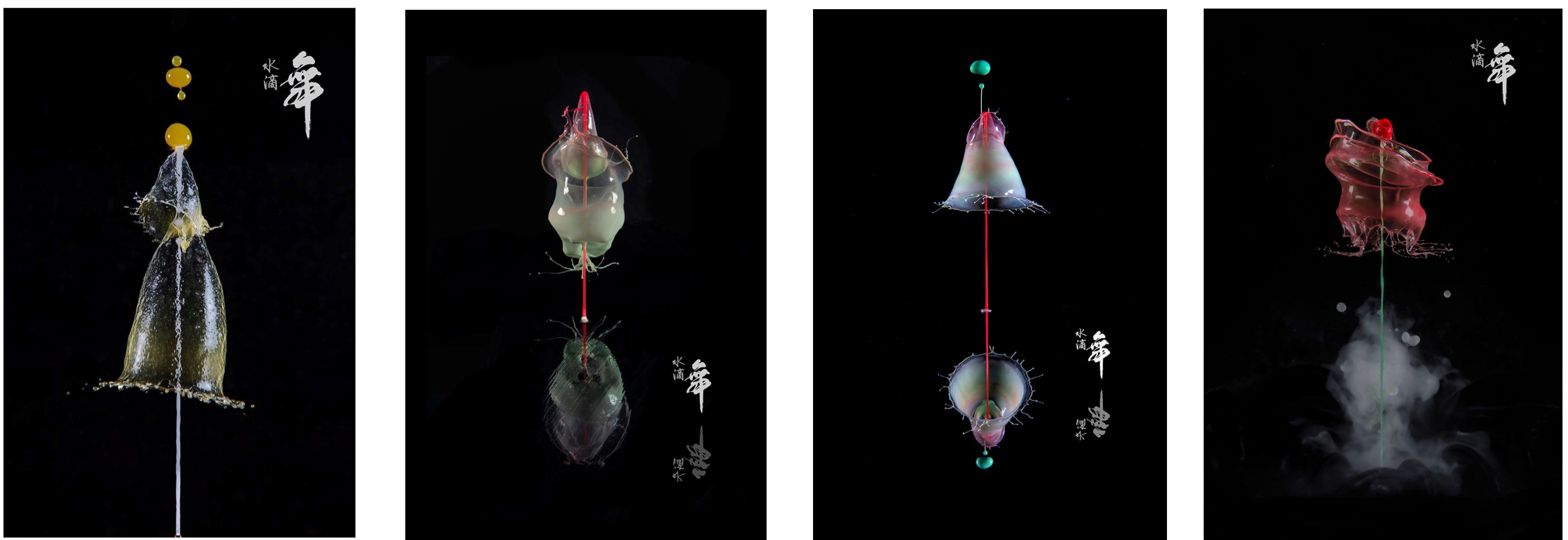


Photographer's High-Speed Droplet System

Water Droplet Photography

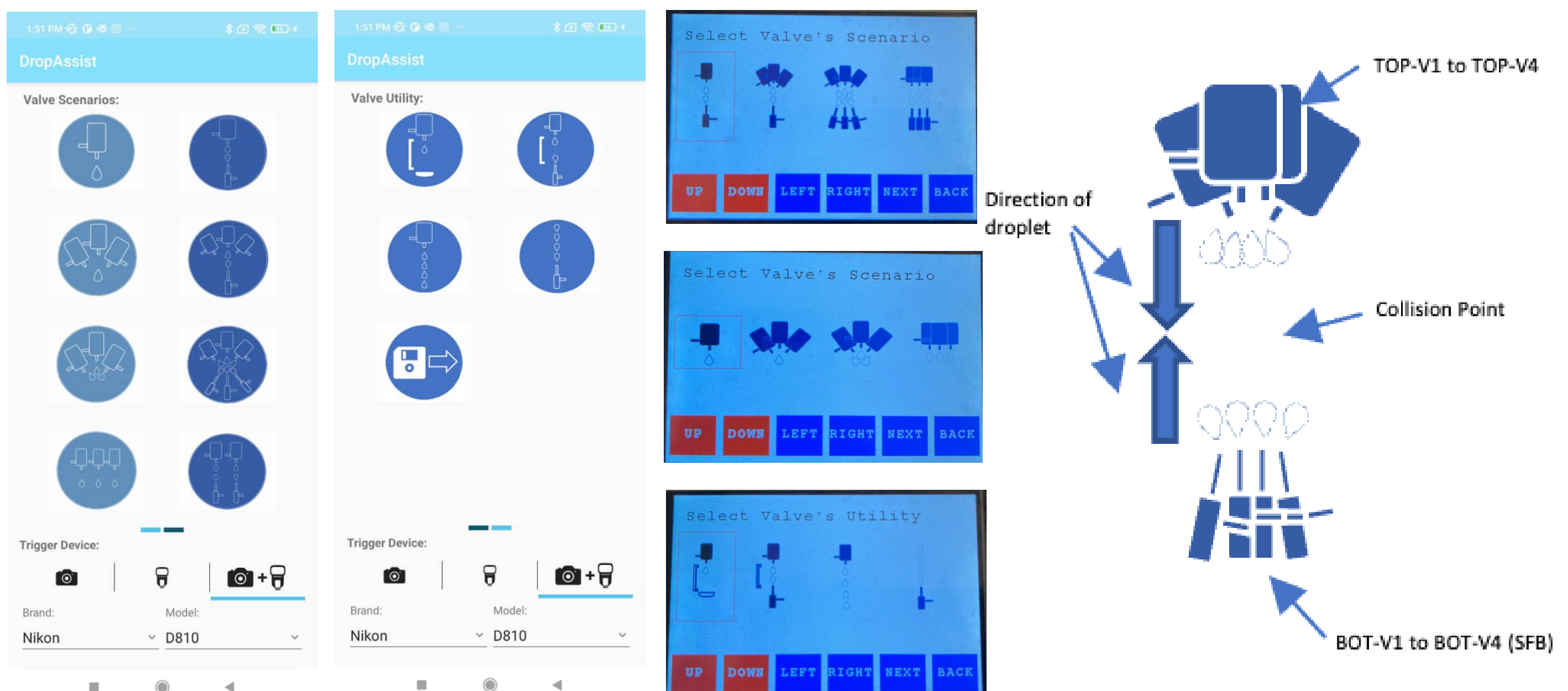
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Supervisor: A/P Chia Liang Tien



Photos taken by A/P Chia Liang Tien using Photographer's High-Speed Droplet System

Project Objectives: The objective of this project is to improve and extend the functionality of the high-speed water droplet's system. This project will improve the accuracy of the water droplet's release timing and implement more ways to control the solenoid valves that produce water droplets. It can also be controlled locally with the touch screen display or by the "DropAssist" Android Application.



The image displays the DropAssist Android application interface and a schematic diagram of the droplet system. The application interface shows two screens: "Valve Scenarios" and "Valve Utility". Both screens feature a grid of circular icons representing different valve configurations and a "Trigger Device" section with options for camera, microphone, and camera+microphone. The "Valve Scenarios" screen also includes a "Select Valve's Scenario" screen with a grid of icons and a "UP DOWN LEFT RIGHT NEXT BACK" navigation bar. The "Valve Utility" screen includes a "Select Valve's Utility" screen with a grid of icons and a "UP DOWN LEFT RIGHT NEXT BACK" navigation bar. The schematic diagram shows a camera at the top, a valve assembly in the middle, and a droplet falling from the valve. The direction of the droplet is indicated by a large blue arrow pointing downwards. The collision point is marked with a red dot. The valve assembly is labeled "TOP-V1 to TOP-V4" and "BOT-V1 to BOT-V4 (SFB)".