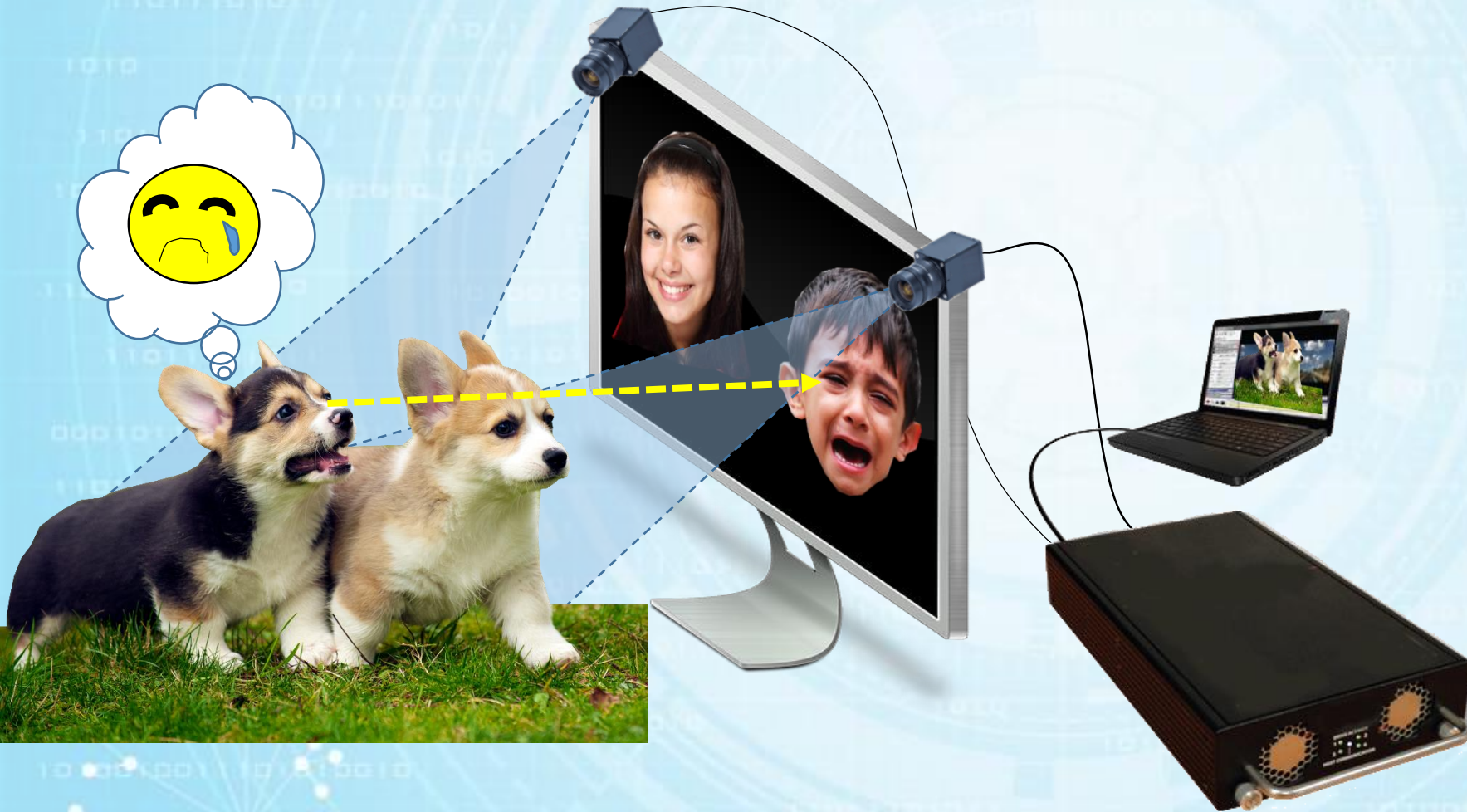


Scientific Research: Animal Behavior Study



Researchers are performing a study to determine if dogs can read human facial expressions. A system is needed to record the testing.



Solution:

An imaging system is designed composed of two GigE cameras and a digital recorder (DVR). The cameras are set up to capture visual data of the dog's response to images displayed on a monitor showing happy and sad faces.

The dogs are given treats when they correctly identify the sad face. Then, the study is altered to expose only half of each face, and the dog is to determine the sad face based on the limited visual information.

The imaging system captures the visual data from the test subjects and relays the information to the recorder. The data is then stored on the DVR or can be transmitted to a computer for further study. The system can also use USB3 or SDI cameras.