A drawing of a metal object

AI-generated content may be incorrect.A black and silver metal object

AI-generated content may be incorrect.Cameras  
  
To ensure comprehensive underwater vision and precise control of the ROV during operation, a total of six cameras have been integrated into the system. Among these, a ZED camera is strategically placed at the front of the ROV to provide stereoscopic 3D depth perception. The remaining five cameras are a mix of Webcams, Rapoo, and Life Cams, each selected for their reliability, compactness, and clarity in underwater environments. These are distributed across different key positions of the ROV as illustrated in Figure (), ensuring full visual coverage around the vehicle. Their placement allows the pilot to monitor the surroundings of the ROV, including the side and rear views, the grippers, and other mission-specific components.

b) other cameras

a)Zed camera

Figure(): Cameras Enclosure illustration.