

Electric Sheep - Robot Specification



We have four players (a full team) of the following specification:

| Property | Value |
|----------------|---|
| Name: | Black Sheep |
| Height: | 63.5 cm |
| Weight: | 4 kg |
| Walking Speed: | ~12 cm/s |
| DoF: | Total of 20 degrees of freedom: 1x Head - 2 DoF 2x Arm - 3 DoF 2x Leg - 6 DoF |
| Sensors: | Camera: 640x480 pixels, 30 FPS, YUVY 422 pixel format, USB 2.0 IMU: 6 DOF MPU-6050 3 axis gyro with accelerometer |
| Computing: | Main board: Raspberry Pi 3 B+ |
| Other: | Neck motors: MG995R (5 kg/cm) Arm motor: Feetech FS6535M (30 kg/cm) Leg motors: Feetech SM30 (30 kg/cm) Smart controller: URT-1 SMS & SCS motor board PWM controller: PCA9685 16 channel 12-bit I2C controller Battery: 4 cell, 16.8V, 2200 mAh LiPo |