

PC or laptop with LabVIEW 8 installed, at least 1 available RS-232 serial port (a USB-to-RS232 converter is fine)

RS-232 Port

straight-pass serial cable (pins 2-to-2, 3-3 and 5-5, additional wires are not necessary)

CMUcam2 module (optionally mounted on pan/tilt stage) - refer to user manual for camera for connector locations, polarities and jumper selections (jumpers must be on terminals for "Oscillator Connect" and "Internal Power to Servos")

DB9 Serial Port (or create a custom-cable to attach to adjacent 3-pin serial port)

Power Input Port (near power switch)

servo header set (x5 servos)

Servo 0

Servo 1

PWM servo cable

PWM servo cable

Pan Servo

Tilt Servo

6-15VDC (200mA) power supply (1A of current may be required if driving servos), can be a battery with appropriate voltage and current capacity, should have some form of over-current protection

6-15V and ground return in a PWM cable

* servos are optional - may be used to implement color tracking or may be replaced by a Robot Controller with ability to drive servos by "listening in on" the color tracking outputs from the camera

Title		
Wiring for FRC2006 PC-based CMUcam2 Test/Cal Application		
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