

ROV Sensor Board [http://aquaticus.info/rov\\_sensor\\_board](http://aquaticus.info/rov_sensor_board)

Bill of Material

Part	Value	Device	Package	Description
C1	0.1uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
C2	0.1uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
C3	0.1uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
C4	0.1uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
C5	22nF	C5/2.5	C5B2.5	CAPACITOR
C6	22nF	C5/2.5	C5B2.5	CAPACITOR
C7	22nF	C7.5/3	C7.5B3	CAPACITOR
C8	100uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
C9	100uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
C10	100nF	C7.5/3	C7.5B3	CAPACITOR
C11	100nF	C7.5/3	C7.5B3	CAPACITOR
C12	100nF	C7.5/3	C7.5B3	CAPACITOR
C13	0.1uF	CPOL-EUE2,5-6E	E2,5-6E	POLARIZED CAPACITOR
CON1	BOB3	SIMM30	SIMM30	SIMM socket
DB1	DB9/F	F09H	F09H	SUB-D Female
IC1	MAX485	MAX3468CPA	DIL08	RS-485/RS-422 Transceiver
IC2	MAX232A	MAX232	DIL16	RS232 TRANSCEIVER
IC3	MEGA8-P	MEGA8-P	DIL28	MICROCONTROLLER
IC4	7805T	7805T	TO220	Positive VOLTAGE REGULATOR
JP1	AVR-ISP-10	AVR-ISP-10	AVR-ISP-10	AVR ISP-10 Header
K1	VIDEO-OUT	B6251F1-NT3G-50	B6251F1-NT3G-50	BNC Connector
K2	VIDEO-IN	B6251F1-NT3G-50	B6251F1-NT3G-50	BNC Connector
LED1		LED3MM	LED3MM	LED
Q1	7.3728 MHz	CRYSTALHC49S	HC49/S	CRYSTAL
R1	120	R-EU_0207/12	0207/12	RESISTOR
R2	100k	R-EU_0207/12	0207/12	RESISTOR
R3	1M	R-EU_0207/12	0207/12	RESISTOR
R4	100k	R-EU_0207/12	0207/12	RESISTOR
R5	1M	R-EU_0207/12	0207/12	RESISTOR
R6	120	R-EU_0207/12	0207/12	RESISTOR
R7	4.7k	R-EU_0207/12	0207/12	RESISTOR
R8	4.7k	R-EU_0207/12	0207/12	RESISTOR
R9	4.7k	R-EU_0207/12	0207/12	RESISTOR
R10	10k	R-EU_0207/12	0207/12	RESISTOR
R11	10k	R-EU_0207/12	0207/12	RESISTOR
R12	220k	R-EU_0207/12	0207/12	RESISTOR
R13	47k	R-EU_0207/12	0207/12	RESISTOR
R14	4.7k	R-EU_0207/12	0207/12	RESISTOR
R15	4.7k	R-EU_0207/10	0207/10	RESISTOR
SL1	LEAK1	M02	02P	AMP QUICK CONNECTOR 2 PINS
SL2	LEAK2	M02	02P	AMP QUICK CONNECTOR 2 PINS
SL3	ST09	M02	02P	AMP QUICK CONNECTOR 2 PINS
SL4	CURR1	M03	03P	AMP QUICK CONNECTOR 3 PINS
SL5	CURR2	M03	03P	AMP QUICK CONNECTOR 3 PINS
SL6	CURR3	M03	03P	AMP QUICK CONNECTOR 3 PINS
SL7	RS485	M02	02P	AMP QUICK CONNECTOR 2 PINS
SL8	I2C	M04	04P	AMP QUICK CONNECTOR 4 PINS
SL9	I2C	M04	04P	AMP QUICK CONNECTOR 4 PINS
SL10	I2C	M04	04P	AMP QUICK CONNECTOR 4 PINS
SL12	1WIRE	M03	03P	AMP QUICK CONNECTOR 3 PINS
T1	2N3904	2N3904	TO92	NPN TRANSISTOR
T2	2N3904	2N3904	TO92	NPN TRANSISTOR
X1	POWER	AK300/2	AK300/2	CONNECTOR