

Atmel ATmega 328P QFN for openSX70 Sonar_FBW_TCS3200								TIMERS	
Pin Name	Camera	explanation	I/O		arduino	DIP Pin	comment		
0 (RX)	FTDI					30	Serial port		
1 (TX)	FTDI					31	Serial port		
2	sonar	S1F FBW	output			32	control focusing via software and a high side switch		
3 (PWM)	Sol#1	Solenoid #1 power	output			1	Timer 2 B: For fast PWM affects D11 & D3		OC2B
4	FF	triggers flash	output			2	works with 3.3V	T0 input	
5 (PWM)	LM	Light sensor 16bit counter interrupts	input		Timer1	9	Timer 1	T1input	OC0B
6 (PWM)	TCS3200	TCS3200_S3	output			10			OC0A
7	S5	Stops motor both by closing and opening depending	input	GND		11			
8	S3	Initiates «Y», 40 milliseconds delay. (Power down	input	GND		12			
9 (PWM)	TCS3200	TCS3200_S1	output			13	was chip enable now enabled by hardware		OC1A
10 (PWM)	S1F	Red shutter button: pre-focus	input	6V		14	Sonar		OC1B
11 (PWM)	Sol#2	Solenoid #2 power	output		MISO	15	Timer 2 A: For fast PWM code affects D11 & D3		OC2A
12	S1T	red shutter button: Initiates exposure cycle.	input	6V	MOSI	16	original feeds 6V might need to change for sonar		
13	LED1	same as built-in LED	output		SCK	17	Arduino standard blink LED		
A0	S9	Prevents firing flash if film pack counter is on «0».	input	6V		23			
A1	S8	Enables (with S7 closed) the circuitry to eject dark slide.	input	6V		24			
A2	M	Motor	output			25	Starts motor through original MCC mosfet		
A3	LED2	LED2	output			26			
A4	S2	Connects circuitry to detect flash inserted in camera.	input	GND		27	moved to digital/analog for A8 dongle		
A5	GTD	Gone the distance @3.3V	input	6V		28	Sonar		
A6	S4	S4@3.3V	input			19	analog input only		
A7	FT	experimental	input			22	analog input only		
A Ref						20			
Reset					Reset	29			
VCC						4			
VCC						6			
AVCC						18			
GND						3			
GND						5			
GND						21			
XTAL						7			
XTAL						8			