

Color Sensor(S11059-02DT)

20140106

Reference;

i2c_utility_0.1.f

ColorSensor0.2.f

ColorSensor's address is h2A.

Prop0 Cog6 ok

i2c_detect

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00:	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10:	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20:	--	--	--	--	--	--	--	--	--	2A	--	--	--	--	--	--
30:	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
40:	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
50:	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
60:	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
70:	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

i2c_device:2

Display default setting (After power on,)

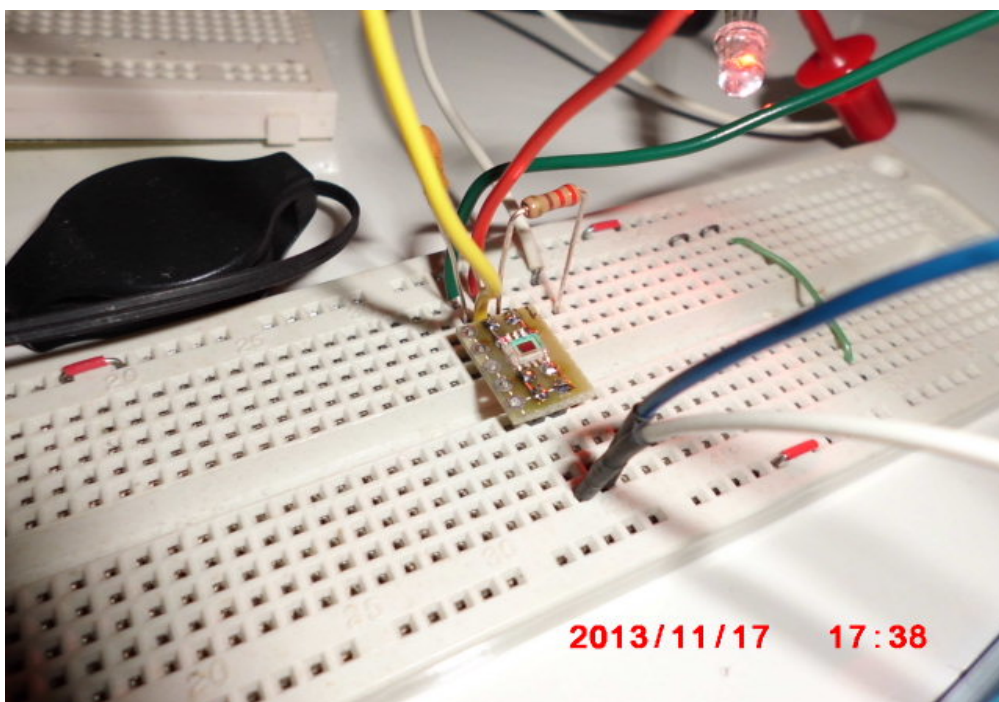
Prop0 Cog6 ok

test

control:E4

manual timing:C30

Prop0 Cog6 ok



Checking write-register

Prop0 Cog6 ok

test

control:E4

manual timing:0C30

Prop0 Cog6 ok

hD31 Set_manual_timing test

control:E4

manual timing:D31

Cycle power

Prop0 Cog6 ok

test

control:E4

manual timing:C30

Mode>manual Gain:Low Tint:00(175usec) IntegralTime:546msec

Each color of full-color-LED is on above ColorSensor.

And infrared-LED also is on above ColorSensor.

Prop0 Cog6 ok

sample1

Infrared:810 Blue:6469 Green:5330 Red:3199

Infrared:498 Blue:1777 Green:3828 Red:4159

Infrared:650 Blue:1888 Green:4154 Red:6416

Infrared:676 Blue:1905 Green:4259 Red:6751

Infrared:1923 Blue:2942 Green:8256 Red:17661 RED

Infrared:1767 Blue:2654 Green:6412 Red:22939

Infrared:646 Blue:1615 Green:5337 Red:24788

Infrared:290 Blue:1249 Green:2445 Red:9543

Infrared:1025 Blue:3677 Green:14466 Red:4153 GREEN

Infrared:1450 Blue:5045 Green:20024 Red:4420

Infrared:1273 Blue:4511 Green:18891 Red:4613

Infrared:1399 Blue:4997 Green:21255 Red:4704

Infrared:307 Blue:1396 Green:8568 Red:4267

Infrared:1990 Blue:24429 Green:13619 Red:4738 BLUE

Infrared:2360 Blue:29953 Green:16392 Red:5220

Infrared:2182 Blue:30106 Green:16288 Red:4845

Infrared:2268 Blue:29393 Green:15981 Red:5101

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Infrared:11 Blue:44 Green:96 Red:78

Infrared:300 Blue:1338 Green:3858 Red:3058

Infrared:3645 Blue:3889 Green:4642 Red:1590 INFRARED

Infrared:5008 Blue:5440 Green:5978 Red:6051

Infrared:4767 Blue:5201 Green:6806 Red:5969

Infrared:3438 Blue:3553 Green:4990 Red:5394

Infrared:3906 Blue:4774 Green:5223 Red:5375

Infrared:450 Blue:1789 Green:3863 Red:3062

Infrared:449 Blue:1789 Green:3858 Red:3060

Infrared:449 Blue:1788 Green:3859 Red:3060

Prop0 Cog6 ok

About sample1;

This word execute delay(2200msec) after executing 'd2200 h84 ColorSensor rd_ColorSensor'.

ADC is reseted inside 'rd_ColorSensor'.

But actually color-values don't change if Not delay.

I have no idea about this reason.

Needing more investigating.

Mode:fixed Gain:High Tint:01(1.4msec) IntegralTime:1.4msec

Each color of full-color-LED is on above ColorSensor.

And infrared-LED also is on above ColorSensor.

Prop0 Cog6 ok

sample2

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Infrared:56 Blue:67 Green:158 Red:726 RED

Infrared:56 Blue:68 Green:161 Red:739

Infrared:56 Blue:69 Green:167 Red:759

Infrared:56 Blue:70 Green:171 Red:776

Infrared:58 Blue:73 Green:183 Red:826

Infrared:58 Blue:77 Green:195 Red:893

Infrared:56 Blue:74 Green:190 Red:882

Infrared:53 Blue:73 Green:187 Red:852

Infrared:48 Blue:70 Green:174 Red:761

Infrared:47 Blue:69 Green:173 Red:729

Infrared:53 Blue:76 Green:188 Red:799

Infrared:53 Blue:75 Green:192 Red:843

Infrared:49 Blue:72 Green:189 Red:815

Infrared:44 Blue:68 Green:169 Red:706

Infrared:42 Blue:65 Green:161 Red:651

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Infrared:98 Blue:1214 Green:624 Red:157 GREEN

Infrared:97 Blue:1201 Green:619 Red:152

Infrared:96 Blue:1188 Green:611 Red:155

Infrared:95 Blue:1177 Green:608 Red:152

Infrared:94 Blue:1172 Green:605 Red:149

Infrared:94 Blue:1163 Green:601 Red:154

Infrared:95 Blue:1167 Green:603 Red:150

Infrared:95 Blue:1173 Green:606 Red:153

Infrared:95 Blue:1178 Green:610 Red:153

Infrared:95 Blue:1176 Green:607 Red:153

Infrared:95 Blue:1174 Green:608 Red:154

Infrared:96 Blue:1176 Green:609 Red:150

Infrared:95 Blue:1178 Green:608 Red:154

Infrared:95 Blue:1183 Green:611 Red:152

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Infrared:58 Blue:748 Green:397 Red:118 blue

Infrared:59 Blue:746 Green:393 Red:118

Infrared:59 Blue:748 Green:397 Red:120

Infrared:60 Blue:753 Green:396 Red:117

Infrared:59 Blue:754 Green:400 Red:121

Infrared:59 Blue:761 Green:401 Red:117

Infrared:60 Blue:765 Green:405 Red:121

Infrared:60 Blue:768 Green:405 Red:117

Infrared:61 Blue:768 Green:403 Red:119

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Infrared:6 Blue:15 Green:41 Red:39
Infrared:259 Blue:258 Green:284 Red:299 Infrared
Infrared:165 Blue:100 Green:124 Red:125
Infrared:6 Blue:162 Green:58 Red:173
Infrared:164 Blue:23 Green:175 Red:157
Infrared:93 Blue:71 Green:63 Red:131
Infrared:5 Blue:16 Green:44 Red:39
Prop0 Cog6 ok