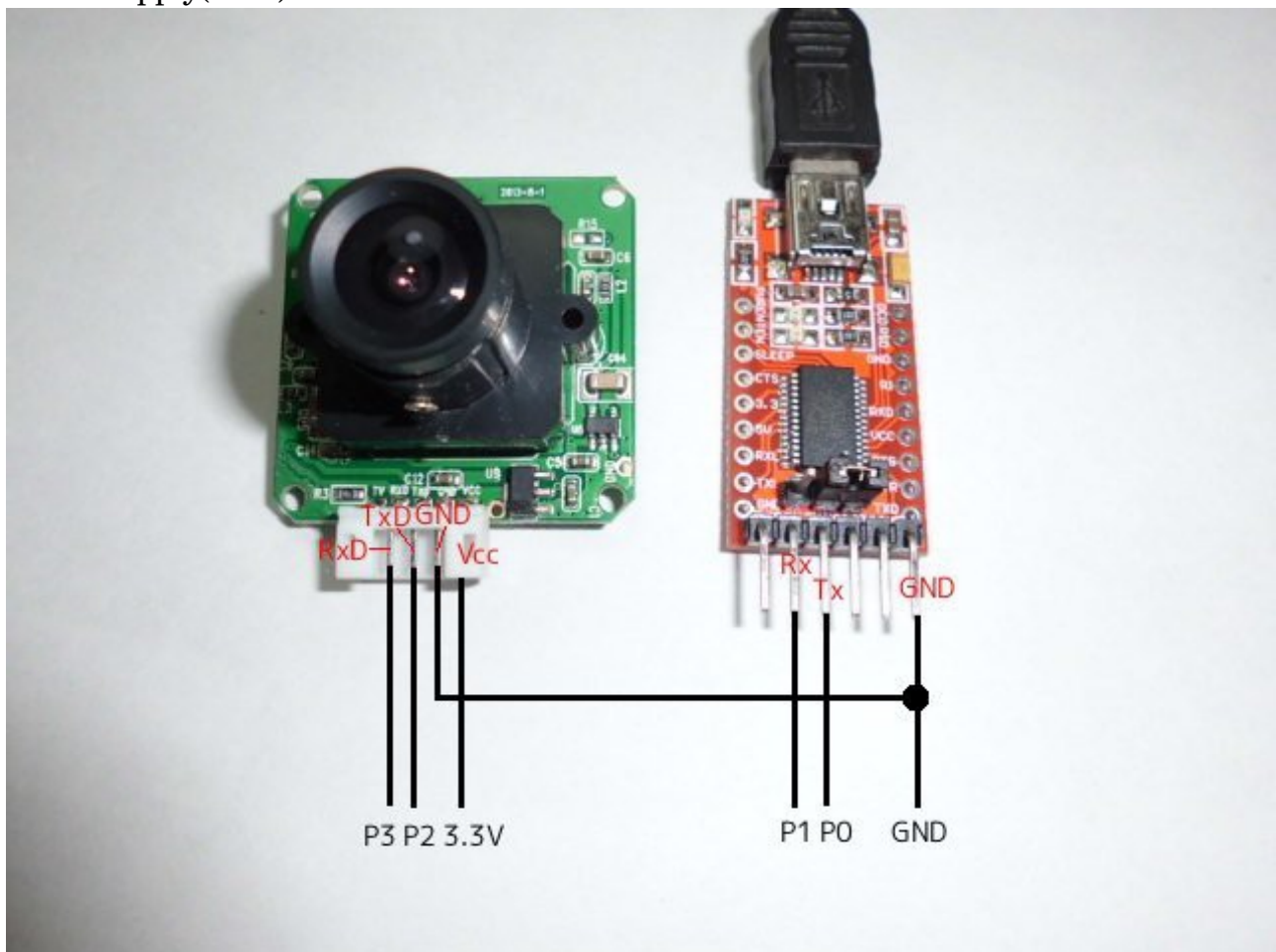# JPEG camera

2017 Jan 9

LS-Y201 send JPEGimage through serial(default:38400baud).
Power is 5V or 3.3V.

Using 3.3V and 38400baud.
PropForth receive data from LS-Y201.
And it send them to Processing(using ver2.2.1).

LS-Y201 send chunk-data.
Chunk-data is Multiple of 8.
LSY201_0.3.f use free area as data-buffer.
Buffer size is max 12288bytes because free area is 13124bytes.
JPEG-data are sandwiched by header-data and footer-data.
PropForth receive these from LS-Y201 and send only JPEG-data to Processing.
header-data and footer-data is same[h76 h00 h32 h00 h00].
PowerSupply(3.3V) of JPEGcamera need about 80mA.

There is data from LS-Y201 below;.
Chunk-data is 1024byte, and receiving number is 4.
4th receiving data number is 596byte.

```
Read jpeg size3668 4          160x120
loop:0

4BB0 040A:
4BB0: 76 00 32 00 00 FF D8 FF FE 00 24 7F 03 89 9D 00   v.2.......$.....
4BC0: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 78 00   ..............x.
4BD0: A0 00 3E 00 32 12 0B 51 04 51 04 00 00 FF DB 00   ..>.2..Q.Q......
4BE0: 84 00 10 0B 0C 0E 0C 0A 10 0E 0D 0E 11 10 10 12   .;.............
4BF0: 17 27 19 17 15 15 17 2F 22 24 1C 27 38 31 3B 3A   .'...../"$.'81;:
4C00: 37 31 36 35 3E 46 59 4C 3E 42 54 43 35 36 4E 6A   7165>FYL>BTC56Nj
4C10: 4E 54 5C 5F 64 65 64 3C 4B 6D 75 6D 61 74 59 62   NT\_ded<KmumatYb
4C20: 64 60 01 10 11 11 17 14 17 2E 19 19 2E 60 40 36   d`...........`@6
4C30: 40 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60   @```````````````
4C40: 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60   ````````````````
4C50: 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60   ````````````````
4C60: 60 60 60 FF FE 00 05 00 00 00 FF C0 00 11 08 00   ```.............
4C70: 78 00 A0 03 01 21 00 02 11 01 03 11 01 FF C4 01   x....!..........
4C80: A2 00 00 01 05 01 01 01 01 01 01 00 00 00 00 00   ................
4C90: 00 00 00 01 02 03 04 05 06 07 08 09 0A 0B 01 00   ................
4CA0: 03 01 01 01 01 01 01 01 01 01 00 00 00 00 00 00   ................
4CB0: 01 02 03 04 05 06 07 08 09 0A 0B 10 00 02 01 03   ................
4CC0: 03 02 04 03 05 05 04 04 00 00 01 7D 01 02 03 00   ...........}....
4CD0: 04 11 05 12 21 31 41 06 13 51 61 07 22 71 14 32   ....!1A..Qa."q.2
4CE0: 81 91 A1 08 23 42 B1 C1 15 52 D1 F0 24 33 62 72   ....#B...R..$3br
4CF0: 82 09 0A 16 17 18 19 1A 25 26 27 28 29 2A 34 35   ........%&'()*45
4D00: 36 37 38 39 3A 43 44 45 46 47 48 49 4A 53 54 55   6789:CDEFGHIJSTU
4D10: 56 57 58 59 5A 63 64 65 66 67 68 69 6A 73 74 75   VWXYZcdefghijstu
4D20: 76 77 78 79 7A 83 84 85 86 87 88 89 8A 92 93 94   vwxyz...........
4D30: 95 96 97 98 99 9A A2 A3 A4 A5 A6 A7 A8 A9 AA B2   ................
4D40: B3 B4 B5 B6 B7 B8 B9 BA C2 C3 C4 C5 C6 C7 C8 C9   ................
4D50: CA D2 D3 D4 D5 D6 D7 D8 D9 DA E1 E2 E3 E4 E5 E6   ................
4D60: E7 E8 E9 EA F1 F2 F3 F4 F5 F6 F7 F8 F9 FA 11 00   ................
4D70: 02 01 02 04 04 03 04 07 05 04 04 00 01 02 77 00   ..............w.
4D80: 01 02 03 11 04 05 21 31 06 12 41 51 07 61 71 13   ......!1..AQ.aq.
4D90: 22 32 81 08 14 42 91 A1 B1 C1 09 23 33 52 F0 15   "2...B.....#3R..
4DA0: 62 72 D1 0A 16 24 34 E1 25 F1 17 18 19 1A 26 27   br...$4.%.....&'
4DB0: 28 29 2A 35 36 37 38 39 3A 43 44 45 46 47 48 49   ()*56789:CDEFGHI
4DC0: 4A 53 54 55 56 57 58 59 5A 63 64 65 66 67 68 69   JSTUVWXYZcdefghi
4DD0: 6A 73 74 75 76 77 78 79 7A 82 83 84 85 86 87 88   jstuvwxyz.......
4DE0: 89 8A 92 93 94 95 96 97 98 99 9A A2 A3 A4 A5 A6   ................
4DF0: A7 A8 A9 AA B2 B3 B4 B5 B6 B7 B8 B9 BA C2 C3 C4   ................
4E00: C5 C6 C7 C8 C9 CA D2 D3 D4 D5 D6 D7 D8 D9 DA E2   ................
4E10: E3 E4 E5 E6 E7 E8 E9 EA F2 F3 F4 F5 F6 F7 F8 F9   ................
4E20: FA FF DD 00 04 00 0A FF DA 00 0C 03 01 00 02 11   ................
4E30: 03 11 00 3F 00 CE CE 68 C5 71 14 1D 69 00 E6 81   ...?...h.q..i...
4E40: 8A 69 A3 9A 00 69 34 DC 63 9A 63 1A 69 8D C5 34   .i...i4.c.c.i...4
4E50: 06 3D C0 C5 E3 7F BD 56 A5 1F 2D 6E FA 10 88 AD   .=.....V..-n....
4E60: BA B5 59 14 A5 B8 21 D4 E1 52 32 C4 09 B8 D6 A4   ..Y...!..R2.....
4E70: 4B B5 45 65 26 04 94 A2 A0 67 FF D0 CE 03 14 BD   K.Ee&....g......
4E80: 6B 88 A0 02 83 40 C4 14 87 8A 00 69 19 E6 9A 79   k....@.....i...y
4E90: E2 81 89 D0 54 64 55 20 32 6F 06 2F 9B EA 3F 95   ....TdU 2o./..?.
4EA0: 59 94 7C B5 B3 E8 42 20 B7 FF 00 58 D5 68 51 2D   Y.|...B ...X.hQ-
4EB0: C1 0A 2A 44 5C 9A 86 32 FD B4 78 AB AB D2 B2 60   ..*D\..2..x....`
4EC0: 3A 96 A4 67 FF D1 CF EB 40 15 C4 50 1F 6A 05 03   :..g....@..P.j..
4ED0: 10 D2 0A 00 69 3C D3 4E 07 34 0C 69 E6 9A C7 35   ....i<.N.4.i...5
4EE0: 48 0C AB B5 2D 7A 00 EA D8 AD 44 B7 86 4E 19 89   H...-z....D..N..
4EF0: 3D 70 08 AA A9 26 92 B1 74 A0 A4 DD C6 9B 1B 74   =p...&..t......t
4F00: 6D C9 24 8B 91 D1 80 34 9F 67 1D A5 43 F9 D4 2A   m.$....4.g..C..*
4F10: AD EE 8D 25 87 EC C7 2D B1 23 3E 62 7E B5 24 71   ...%...-.#>b~.$q
4F20: 2A 1F 98 E7 E9 49 D4 BE C2 54 1D F5 65 E8 02 B2   *....I...T..e...
4F30: 92 9D 47 50 6A 65 E9 50 9D C8 9D 37 1F 41 C2 96   ..GPje.P...7.A..
4F40: 99 99 FF D2 A0 05 07 9A E3 28 41 41 E9 48 60 29   .........(AA.H`)
4F50: A7 8A 00 43 EB 4C 27 34 C0 69 E2 A0 95 8E 70 2A   ...C.L'4.i....p*
4F60: A2 0C AA E0 C7 72 92 30 18 EC DD C1 AB CB 3A EF   .....r.0......:.
4F70: 00 48 01 07 38 38 F4 C5 13 46 D4 5A B6 A5 EF B3   .H..88...F.Z....
4F80: 89 61 52 3A 81 DA B3 D8 05 E0 E4 1A C2 12 BE 87   .aR:............
4F90: 64 95 90 1C 9B 49 31 D7 69 C5 4D 19 D8 08 0F 82   d....I1.i.M.....
4FA0: 06 30 46 72 2B 44 63 22 C4 4C C9 30 C0 00 8E 0E   .0Fr+Dc".L.0....
4FB0: D3 F8 55 85 77 76 00 32 00 00 65 20 61 64 64 72   ..U.wv.2..e addr
```

```
loop:1

4BB0 040A:
4BB0: 76 00 32 00 00 DE CA EB 8C B1 2B F4 E0 D6 6D 7B   v.2.......+...m{
4BC0: D7 1C 9F B9 66 48 29 C2 AC E2 3F FF D3 A2 D4 D1   ....fH)...?.....
4BD0: 5C 45 0A 69 05 03 03 49 D7 AD 00 30 9E 69 0F 03   ¥E.i...I...0.i..
4BE0: 3E B4 C6 33 AD 57 6F F5 B5 71 26 45 6B B6 2D 6E   >..3.Wo..q&Ek.-n
4BF0: D9 2B C3 63 1C E7 D7 35 2B DA 2B CA 1C B7 23 B5   .+.c...5+.+...#.
4C00: 54 A5 CA 6B 4E 1C C1 70 84 4F 09 1C 60 9E 45 3C   T..kN..p.O..`.E<
4C10: C8 F9 C1 76 23 D3 35 0A CD 17 51 B5 B1 3A 72 B8   ...v#.5...Q..:r.
4C20: 3D 29 76 E4 D4 3D CA A6 DB 5A 91 CF 74 F0 30 8E   =)v..=...Z..t.0.
4C30: 20 37 11 D4 F6 AD 0B 05 3E 50 76 3D 73 FC E8 71    7......>Pv=s..q
4C40: B2 B8 AA 4F 74 5A A5 A4 73 1F FF D4 A0 0F 6A 31   ...OtZ..s.....j1
4C50: 8A E3 28 40 73 41 E0 50 02 67 34 87 8E 29 0C 43   ..(@sA.P.g4..).C
4C60: CD 30 9F CA 98 0C 27 6D 40 C7 F7 B5 71 14 8A 37   .0....'m@...q..7
4C70: 92 FC CD 1E 3A 8E B5 62 26 DF 1A B1 EE 3B D5 CD   ....:..b&....;..
4C80: 68 69 45 EA CB 45 4F 92 AC 7D 71 50 C6 09 39 35   hiE..EO..}qP..95
4C90: 94 4B AD D0 B2 01 0B C7 4A 72 8C 90 2A 24 69 4B   .K......Jr..*$iK
4CA0: 62 AF 90 66 BF 66 FE 1C F3 CF 4C 71 5A D0 80 13   b..f.f....LqZ...
4CB0: 03 A6 4E 3F 3A A9 3E 86 33 26 53 CD 3E A4 CD 9F   ..N?:.>.3&S.>..;
4CC0: FF D5 CF 03 14 67 D6 B8 CA 0E 94 50 02 1E 05 27   .....g.....P...'
4CD0: 51 40 0C 63 E9 4D 27 8C E2 81 8C EB 50 1F F5 D8   Q@.c.M'.....P...
4CE0: AD 22 29 0C 9A D7 CE 70 00 C3 31 0A 09 AB 87 4F   .")...p..1....O
4CF0: 91 5C 08 D0 94 03 82 4E 2A 2A 54 4A C9 9D 14 20   .¥.....N**TJ...
4D00: DD DA 24 B9 54 86 15 8B 70 DD D6 AB C6 98 35 10   ..$.T...p.....5.
4D10: 7A 15 5D 6A 59 07 64 65 B0 4E 07 41 DF DA AC 4F   z.]jY.de.N.A...O
4D20: 0A 58 88 A2 BB 60 D7 2D 1E F7 0B C0 53 E8 7F 96   .X...`.-....S...
4D30: 6A AD 73 9D 4D C5 E8 3A 41 6E 23 49 A0 59 41 2B   j.s.M..:An#I.YA+
4D40: 9D B2 30 3F 41 C5 22 0D AA 14 76 18 A9 B5 86 E4   ..0?A.".. .v.....
4D50: E5 B9 2A D3 85 34 41 FF D6 CF EB 40 5C 72 6B 90   ..*..4A....@¥rk.
4D60: 62 F5 A3 18 19 34 86 21 5C FD 69 31 81 EF 40 08   b....4.!¥.i1..@.
4D70: 57 34 C2 BC D0 31 0A 62 A0 94 04 90 33 70 31 57   W4...1.b....3p1W
4D80: 1D C5 2D 88 E1 BC 0A C5 B7 6D 1B BD 6B 76 D6 75   ..-......m..kv.u
4D90: B8 84 06 1D 46 73 EA 2B 0A F0 B6 A7 76 1E 49 AE   ....Fs.+....v.I.
4DA0: 54 60 5D 06 5B D9 43 9C B0 63 CF F2 AB 36 8C D3   T`].[.C..c...6..
4DB0: 37 94 01 66 CE 00 03 24 D6 AD 68 8C E5 B3 B9 D6   7..f...$..h.....
4DC0: 69 9A 44 36 EA 26 BC E6 48 CE FC 7F 0A 63 A6 7D   i.D6.&..H....c.}
4DD0: 4D 54 BF 86 DA E0 B8 DA 58 CB 82 CC 7A 9E 78 15   MT......X...z.x.
4DE0: 09 EB 73 85 36 DB 29 DC 59 AC 29 19 41 26 C5 01   ..s.6.).Y.).A&..
4DF0: 48 63 C0 3D B1 F8 7F 2A 89 7A D1 7B 9A AD 89 73   Hc.=...*.z.{...s
4E00: 4A 0D 50 8F FF D7 A4 AB 4E DB 91 5C 63 00 94 BB   J.P.....N..¥c...
4E10: 41 E2 81 89 B3 1F 5A 4D 99 A4 02 30 C7 00 53 76   A.....ZM...0..Sv
4E20: F7 C7 E7 40 14 9A E1 93 F7 A5 97 61 C1 D8 C4 03   ...@.......a....
4E30: 8C 76 F7 AA F7 CC EE 24 75 65 D8 AE 53 6E 3B 0C   .v.....$ue..Sn;.
4E40: 73 F9 D6 D1 8E A4 B7 A1 40 B1 63 93 D7 A5 74 5A   s.......@.c...tZ
4E50: 69 FF 00 47 8B FD C1 FC AA 31 1F 09 D3 85 DC B0   i..G.....1......
4E60: 96 F6 D7 13 48 0C 63 CD EA 49 EE 31 52 69 12 C7   ....H.c..I.1Ri..
4E70: A4 6A 0E 59 37 09 38 07 19 22 B0 84 A5 B3 36 C4   .j.Y7.8.."....6.
4E80: 41 4A 2E C6 AD EE A8 24 42 08 F2 C0 E5 50 77 FA   AJ.....$B....Pw.
4E90: D6 5A DC B3 DC 03 23 FC CD 92 07 AD 68 91 C1 15   .Z....#.....h...
4EA0: 65 61 93 5C C9 2F CA 4E 17 39 DB DA 99 1F 5A 2C   ea.¥./.N.9...Z,
4EB0: 50 FC D3 81 A6 23 FF D0 80 AF 14 2A F3 5C 6C 63   P....#.....*.¥lc
4EC0: 8A 64 52 AC 79 EB 48 00 A6 7A 55 3D 44 C9 0D B8   .dR.y.H..zU=D...
4ED0: 96 22 46 C7 05 80 EE 3F CE 29 C7 70 23 9B 51 8D   ."F....?.).p#.Q.
4EE0: 18 C7 16 D3 CF CC CC 70 05 45 26 AB 16 C2 E1 09   .......p.E&.....
4EF0: 24 E0 80 38 FC 2A F9 1B 02 9D C1 6B AB 80 90 28   $..8.*.....k...(
4F00: 90 1C 90 BE F5 62 DE CF 6D B4 F1 C9 24 60 91 D0   .....b..m...$`..
4F10: 36 70 70 7A FE 95 6E 5C BA 15 1A 7C CA ED D9 14   6ppz..n¥...|....
4F20: 4D 9B AB 60 90 41 E8 47 43 5B 76 29 E5 C6 89 9C   M..`.A.GC[v)....
4F30: ED 18 AC AB 4A EA C7 4E 1E 36 77 2E A4 31 06 13   ....J..N.6w..1..
4F40: 06 70 E7 07 DA 9A 76 2C AD 33 0F 96 25 2D 5C F0   .p...v,.3..%-¥.
4F50: 6D C9 1B D6 D2 0C A4 B3 19 B0 CE E1 DF BE 3B 7B   m.............;{
4F60: 51 16 64 B8 79 BF 86 21 E5 A7 D4 FD E3 FD 2B A1   Q.d.y..!.....+.
4F70: 1E 73 1F DE A4 41 8A 40 3E 94 1A 64 9F FF D1 80   .s...A.@>..d....
4F80: 3F AD 3C 63 B5 71 DC 6D 58 54 EB 8A 90 0E C3 AD   ?.<c.q.mXT......
4F90: 48 C7 2C 67 27 35 9D 78 ED 33 BC 11 1C 8C 7E F0   H.,g'5.x.3....~.
4FA0: E3 3B 57 FC 69 C4 19 91 1A 2F 9A CC E5 A2 54 3F   .;W.i..../....T?
4FB0: 3B 01 DF D0 71 76 00 32 00 00 65 20 61 64 64 72   ;...qv.2..e addr
```

```
loop:2

4BB0 040A:
4BB0: 76 00 32 00 00 C1 3F D0 D4 5E 43 95 DE A3 2B 8C    v.2...?..^C...+.
4BC0: 93 5D 37 B1 05 D5 F3 62 B1 FB A4 CB 70 38 6E 9B    .]7....b....p8n.
4BD0: 10 77 FC 69 AC AD 0D 89 39 3B 9F 85 07 FC FD 6A    .w.i....9;.....j
4BE0: 63 6D CB A9 BA 88 59 EE 68 48 3D 50 D6 9D BE 08    cm....Y.hH=P....
4BF0: 06 B0 AA 76 51 24 79 16 31 8C 81 F8 D4 57 8E 52    ...vQ$y.1....W.R
4C00: DA 28 47 32 5C 1D EC 3F D9 1D 3F 33 FD 6A 29 AD    .(G2¥..?..?3.j).
4C10: 6E 3A F2 D9 14 D7 47 B8 97 E7 8D 4C 6F EB 9C 66    n:....G....Lo..f
4C20: B6 A0 D2 8A DB 47 1E FC 15 5E 70 33 92 79 26 B4    .....G...^p3.y&.
4C30: 95 4D 0E 47 1D 45 FE CA 65 39 F3 3F 31 50 CF 6E    .M.G.E..e9.?1P.n
4C40: D0 15 DC 41 DD D2 A6 32 B9 2D 11 52 D6 84 9F FF    ...A...2.-.R....
4C50: D2 C6 BA D5 16 29 59 12 3C E0 91 92 7D 2A B9 D4    .....)Y.<...}*..
4C60: 2E 65 3F BB CF D1 16 B0 54 D5 AE C1 B2 B3 5D 4A    .e?.....T.....]J
4C70: C7 71 77 27 D4 B5 69 69 F7 77 ED 8F 2E 27 B9 6E    .qw'..ii.w...'.n
4C80: 80 6D 24 E3 F0 FA 53 94 55 85 73 A0 FB 36 A3 34    .m$...S.U.s..6.4
4C90: 00 C7 66 E8 E5 7F 8D 80 00 FE 75 8A FA 15 EB 44    ..f.......u....D
4CA0: 5B EC D3 6D 2D F3 BB B0 5F C9 49 FE 75 94 1A 88    [..m-..._.I.u...
4CB0: 39 26 55 93 4F C0 C9 60 AE 1B E5 8B 39 38 47 19    9&U.O..`...9;.G.
4CC0: CF F9 EF 57 20 B7 77 C0 91 36 A0 1C 92 38 22 AA    ...W .w..6...8".
4CD0: 72 D0 BA 71 BC AC 32 49 4A BC 8D 83 E5 8E 83 1C    r..q..2IJ.......
4CE0: 00 30 00 AA B7 9F 31 49 95 B7 2F E8 0F AD 52 56    .0....1I../...RV
4CF0: B2 25 BE 66 E4 4F 6B 74 4C D9 2A A4 B2 83 9C 7A    .%.f.OktL.*....z
4D00: 1E 95 A1 69 70 A8 1D 5A 20 7E 63 FE 23 F9 D6 53    ...ip.Z ~c.#..S
4D10: 87 43 58 D4 69 12 CB 73 6A 46 24 8D BF 2A 7D BB    .CX.i..sjF$..*}.
4D20: 5B DC 4F E7 31 41 80 07 CD D4 81 51 CA D2 1B 9F    [.O.1A.....Q....
4D30: 36 E5 EC AE 7E 44 FE 95 1C B7 41 1B 60 62 64 EB    6...~D....A.`bd.
4D40: B1 3A E3 DF D3 F1 A8 4A E2 6C 80 6A 3B B3 E5 2E    .:.....J.l.j;...
4D50: F1 DF CB 46 90 7E 63 02 AB 5C 5C 3D D9 1E 52 19    ...F.~c..¥¥=..R.
4D60: 04 60 EF 28 A7 2B 9F 51 D4 56 8A 36 64 36 42 77    .`.(.+.Q.V.6d6Bw
4D70: 0D A0 A3 E5 BA 00 A7 9F A5 21 13 AF 26 12 07 A1    .........!..&...
4D80: 3C D6 A4 5C FF D3 E4 4A 17 20 B6 43 92 4F F8 7F    <..¥...J. .C.O..
4D90: 5A E8 34 68 04 DA 6E CE 4A 86 23 20 E2 B2 96 C4    Z.4h..n.J.# ....
4DA0: 18 0A EF CE 58 9F 50 79 15 DC F8 7A E0 FF 00 63    ....X.Py...z...c
4DB0: 44 57 03 CA F9 80 F6 CE D2 7F 00 4F E9 44 D6 82    DW.........O.D..
4DC0: 7A 9C C4 DA A5 F4 3A AC 93 0B 89 19 D2 46 C0 66    z.....:......F.f
4DD0: 24 63 24 63 1E 95 D2 C7 AB 0B E8 C4 11 C6 56 79    $c$c..........Vy
4DE0: 17 26 36 60 0A F4 AC EA 43 AA 2E 36 29 0B 2B 88    .&6`....C..6).+.
4DF0: 66 48 58 22 31 1F 2E 07 3B 79 24 EE 3F 8D 69 5C    fHX"1...;y$.?.i¥
4E00: 5B 79 16 8A 43 33 4A C4 24 60 9E AC 7D 6A 1D AE    [y..C3J.$`..}j..
4E10: 8B E7 6A 2E C4 73 59 AC 68 96 EA 32 C0 60 91 F3    ..j..sY.h..2.`..
4E20: 03 EE 45 61 5E 08 2C E4 30 B2 AE 58 9F BB C8 03    ..Ea^.,.0..X....
4E30: 3C 1C 1A 6A ED E8 11 7A 6A 56 42 33 BC 79 6E A0    <..j...zjVB3.yn.
4E40: FD F8 C1 04 7D 45 36 67 92 39 1B E6 7C 31 C8 C5    ....}E6g.9..|1..
4E50: 5A 5A 8D E8 AE 46 2E E4 41 9C 31 07 FB DD 2B 42    ZZ...F..A.1...+B
4E60: 1B A8 8A 82 CC AA 48 CE 3F 0A 25 1B 6C 45 EE 68    ......H.?.%.lE.h
4E70: 9B B4 BB 38 5B 81 14 79 FB AA C3 7B 7D 7D 29 6D    ...8[..y...{}})m
4E80: 2D 0D FC AD 15 B5 BF FA 2C 6D 87 39 E1 DF AF 27    -.......,m.9...'
4E90: BE 2B 24 9A 1C A4 92 BB 36 21 8D 85 CC D6 A8 11    .+$.....6!......
4EA0: 5A 04 52 58 8C 80 5B 38 C2 FB 62 A4 97 4E 96 69    Z.RX..[8..b..N.i
4EB0: E2 B8 FB 4A A4 F1 02 37 2C 58 2C 3B 83 CF 22 84    ...J...7,X,;..".
4EC0: AC 61 29 DD DC AD AA 5A 5C 47 6F 25 CC 77 4C 1E    .a)....Z¥Go%.wL.
4ED0: 24 27 6A 28 5C A6 46 EE 7A F4 1F A5 26 91 E5 5E    $'j(¥.F.z...&..^
4EE0: DB 12 6E 6E 12 45 38 3F BE 3C 8E C7 FC FA 55 DB    ..nn.E8?.<....U.
4EF0: 4B 89 C9 DA E7 FF D4 CC B9 85 6F A7 92 2B 66 F9    K.........o..+f.
4F00: D7 39 69 70 B9 ED 80 73 FE 72 6A F6 87 6F 79 04    .9ip...s.rj..oy.
4F10: 6F 6E 2C E5 95 C3 E7 8C 05 E4 0E AC 6B 0D 2D 62    on,.........k.-b
4F20: 5E 8B 51 D6 5E 10 69 D1 66 9E E5 15 1C 67 11 8C    ^.Q.^.i.f....g..
4F30: 9C 7D 4F 4A D4 8B C3 A6 D6 16 8A DA F2 6F 28 83    .}OJ.........o(.
4F40: F2 10 32 73 D4 67 F0 A4 E7 73 37 32 84 1A 2C 66    ..2s.g...s72..,f
4F50: 43 34 1B 66 70 E1 49 94 1C 33 9E B8 C7 38 1D 73    C4.fp.I..3...8.s
4F60: 56 93 C3 31 AC C9 28 69 ED A5 41 9D F1 B0 60 4F    V..1..(i..A...`O
4F70: AF AD 27 22 A5 2B 68 4B 24 B7 36 ED 1C 77 8D 1D    ..'".+hK$.6...w..
4F80: D2 07 07 7C 48 77 15 E4 9D CB F4 1D AA C5 AD BC    ...|Hw..........
4F90: 17 D7 4D 70 B1 AF D9 E3 F9 22 C0 E1 8F 76 FE 95    ..Mp...;."...v..
4FA0: 0B 4D 47 51 D9 2B 17 27 09 69 6E EF 14 4A 08 1D    .MGQ.+.'.in..J..
4FB0: 86 2B 80 D6 BE 76 00 32 00 00 65 20 61 64 64 72    .+...v.2..e addr
```

```
loop:3
lastsize254    596byte

4BB0 040A:
4BB0: 76 00 32 00 00 6B CC FA 2E 2A E9 EE 11 F8 6E 56   v.2..k...*....nV
4BC0: 85 04 77 51 8F 30 A8 6C 7C CB DB 35 64 E2 6D C9   ..wQ.0.l|..5d.m.
4BD0: B4 06 04 E3 1F 5A D1 EF 73 44 FD DB 10 48 03 31   .....Z..sD...H.1
4BE0: CB 1E A4 63 3D 3F 0A EA 2C BC 35 05 C5 94 0F E5   ...c=?..,.5.....
4BF0: C9 03 BC 6B BD 9C 83 92 47 38 15 33 6D 6C 64 E5   ...k....G8.3mld.
4C00: CB B9 6F 4C B1 B4 8A 56 B0 BF 82 37 B9 4F B8 CE   ..oL...V...7.O..
4C10: 32 25 4E C4 7B FA 8A 34 3D 3A 13 67 2B 16 9A 22   2%N.{..4=:.g+.."
4C20: B3 BA 86 49 99 72 07 D0 E2 A1 99 B9 37 76 36 DA   ...I.r......7v6.
4C30: E6 D6 C7 5B BE 49 EE D9 91 A3 8F 0F 23 6E 24 81   ...[.I......#n$.
4C40: EA 3E B5 3C 9A ED 8A B1 1E 7A 32 E7 AF 3F E1 4F   .>.<.....z2..?.O
4C50: 95 B1 D9 B6 45 FF 00 09 15 89 6D B2 15 68 CE 41   ....E....m..h.A
4C60: DB 9C 90 47 A1 02 B3 3C 32 EF 16 A9 14 70 BB 98   ...G...<2....p..
4C70: 24 2E 0E E1 C7 4C 8C 7E 5F A5 52 4D 27 70 6A C9   $....L.~_.RM'pj.
4C80: 9F FF D5 8E DB 52 67 B8 4D EA AA C8 8C A5 1D B9   .....Rg.M.......
4C90: 19 23 FB D9 F4 AD 9B 68 DA 2B B9 36 BB 45 B9 54   .#.....h.+.6.E.T
4CA0: ED 42 31 9E 73 DB 1E 95 CF 34 96 84 6B 6D 48 0C   .B1.s....4..kmH.
4CB0: DA 95 94 40 C6 23 96 01 21 52 8E 3E 65 52 7A E4   ...@.#..!R.>eRz.
4CC0: 1E 7A D6 9D D6 A3 15 B4 0B B0 92 D2 B8 45 E7 91   .z...........E..
4CD0: DC B7 E0 01 35 3B BD 08 94 6E 52 D2 EF 2D E5 99   ....5;...nR..-..
4CE0: 42 30 58 FC B3 74 72 70 14 9F 97 1F 87 CD 5A 47   B0X..trp......ZG
4CF0: 54 B1 5D 9F E9 70 FC FF 00 77 E7 1C D0 D3 44 CA   T.]..p...w....D.
4D00: 2E 4F 43 3F 51 75 9A EB CB 47 5F 35 C2 A4 64 1F   .OC?Qu...G_5..d.
4D10: BB 9E 4B 7E 03 F9 D2 47 6D 73 A4 96 36 4E 97 56   ..K~..Gms..6N.V
4D20: C7 9F 21 DF 6B 29 FF 00 64 D2 56 B5 99 A4 D3 D1   ..!.k)..d.V.....
4D30: 5B A0 92 4B 7B 7C 30 6F 2D AD 50 F5 88 2E 5B E8   [..K{|0o-.P...[.
4D40: 49 C7 E9 59 8F E1 D1 A8 66 E3 ED CB 19 6F E0 2B   I..Y....f....o.+
4D50: D3 F1 CD 35 2E 5E 83 4A D1 D1 10 BF 85 64 88 EF   ...5.^.J.....d..
4D60: 5B CB 77 0B CE 0E 41 34 D6 D3 65 89 99 85 BD AB   [.w...A4..e.....
4D70: 7E E8 C9 BD 65 39 03 39 CF 27 AF B7 BD 57 3A 63   ~...e9.9.'...W:c
4D80: 4D D8 B3 F6 F5 D2 C2 19 F4 BB 63 E6 FC F1 BF 04   M.........c.....
4D90: 91 F5 C7 F9 CD 69 AE AD AA 4B 18 78 F4 E8 95 08   .....i...K.x....
4DA0: C8 66 B8 5C 54 B5 D5 B2 25 04 DD CA D7 09 A9 EA   .f.¥T...%.......
4DB0: ED 1C 72 2D BC 31 A3 06 12 AB 12 50 FB 1F F0 AA   ..r-.1.....P....
4DC0: 9A 9A 4F A6 44 90 48 56 58 41 25 66 4E 0F FC 08   ..O.D.HVXA%fN...
4DD0: 7A FB D3 56 6E C0 9A 4F 95 1C ED EC DE 65 CB 36   z..Vn..O.....e.6
4DE0: EC E4 0E 4D 40 A7 27 8E 6B 7B 0C 90 11 EA 2B B4   ...M@.'.k{....+.
4DF0: F0 F6 E5 82 D6 DC 90 55 3F D2 09 F4 C8 61 8F D4   .......U?....a..
4E00: 1F CE A2 6A E4 CF 63 FF D9 76 00 32 00 00 1D AE   ...j..c..v.2....
4E10: 8B E7 6A 2E C4 73 59 AC 68 96 EA 32 C0 60 91 F3   ..j..sY.h..2.`..
4E20: 03 EE 45 61 5E 08 2C E4 30 B2 AE 58 9F BB C8 03   ..Ea^.,.0..X....
4E30: 3C 1C 1A 6A ED E8 11 7A 6A 56 42 33 BC 79 6E A0   <..j...zjVB3.yn.
4E40: FD F8 C1 04 7D 45 36 67 92 39 1B E6 7C 31 C8 C5   ....}E6g.9..|1..
4E50: 5A 5A 8D E8 AE 46 2E E4 41 9C 31 07 FB DD 2B 42   ZZ...F..A.1...+B
4E60: 1B A8 8A 82 CC AA 48 CE 3F 0A 25 1B 6C 45 EE 68   ......H.?.%.lE.h
4E70: 9B B4 BB 38 5B 81 14 79 FB AA C3 7B 7D 7D 29 6D   ...8[..y...{}})m
4E80: 2D 0D FC AD 15 B5 BF FA 2C 6D 87 39 E1 DF AF 27   -.......,m.9...'
4E90: BE 2B 24 9A 1C A4 92 BB 36 21 8D 85 CC D6 A8 11   .+$.....6!......
4EA0: 5A 04 52 58 8C 80 5B 38 C2 FB 62 A4 97 4E 96 69   Z.RX..[8..b..N.i
4EB0: E2 B8 FB 4A A4 F1 02 37 2C 58 2C 3B 83 CF 22 84   ...J...7,X,;..".
4EC0: AC 61 29 DD DC AD AA 5A 5C 47 6F 25 CC 77 4C 1E   .a)....Z¥Go%.wL.
4ED0: 24 27 6A 28 5C A6 46 EE 7A F4 1F A5 26 91 E5 5E   $'j(¥.F.z...&..^
4EE0: DB 12 6E 6E 12 45 38 3F BE 3C 8E C7 FC FA 55 DB   ..nn.E8?.<....U.
4EF0: 4B 89 C9 DA E7 FF D4 CC B9 85 6F A7 92 2B 66 F9   K.........o..+f.
4F00: D7 39 69 70 B9 ED 80 73 FE 72 6A F6 87 6F 79 04   .9ip...s.rj..oy.
4F10: 6F 6E 2C E5 95 C3 E7 8C 05 E4 0E AC 6B 0D 2D 62   on,.........k.-b
4F20: 5E 8B 51 D6 5E 10 69 D1 66 9E E5 15 1C 67 11 8C   ^.Q.^.i.f....g..
4F30: 9C 7D 4F 4A D4 8B C3 A6 D6 16 8A DA F2 6F 28 83   .}OJ.........o(.
4F40: F2 10 32 73 D4 67 F0 A4 E7 73 37 32 84 1A 2C 66   ..2s.g...s72..,f
4F50: 43 34 1B 66 70 E1 49 94 1C 33 9E B8 C7 38 1D 73   C4.fp.I..3...8.s
4F60: 56 93 C3 31 AC C9 28 69 ED A5 41 9D F1 B0 60 4F   V..1..(i..A...`O
4F70: AF AD 27 22 A5 2B 68 4B 24 B7 36 ED 1C 77 8D 1D   ..'".+hK$.6..w..
4F80: D2 07 07 7C 48 77 15 E4 9D CB F4 1D AA C5 AD BC   ...|Hw...,......
4F90: 17 D7 4D 70 B1 AF D9 E3 F9 22 C0 E1 8F 76 FE 95   ..Mp...."...v..
4FA0: 0B 4D 47 51 D9 2B 17 27 09 69 6E EF 14 4A 08 1D   .MGQ.+.'.in..J..
4FB0: 86 2B 80 D6 BE 76 00 32 00 00 65 20 61 64 64 72   .+...v.2..e addr
next picture
```

```
Prop0 Cog6 ok
sendPicture
VC0703 1.00       <--- Initial message start from LS-Y201

Ctrl infr exist

User-defined sensor

625

Init end          <--- Initial message finished


start
             <--- Start hitting return key on Processing window 'JPEGview'
Read jpeg size12588 2    <--- 320x240
lastsize300
next picture
             <--- Display JPEG image on Processing window 'JPEGview',
                                                hitting return key
             <--- Start hitting return key on Processing window 'JPEGview'
Read jpeg size12668 2    <--- 320x240
lastsize380
next picture
             <--- Display JPEG image on Processing window 'JPEGview',
                                                hitting return key
             <--- Click mouse on Processing window
Finished!
Prop0 Cog6 ok

0 jpgSize W!
Prop0 Cog6 ok
sendPicture

start
             <--- Start hitting return key on Processing window
Read jpeg size49244 5    <--- 640x480
lastsize92
next picture
             <--- Display JPEG image on Processing window, hitting return key
             <--- Start hitting return key on Processing window
Read jpeg size49260 5    <--- 640x480
lastsize108
next picture
             <--- Display JPEG image on Processing window, hitting return key
             <--- Start hitting return key on Processing window
             <--- Click mouse on Processing window
Finished!
Prop0 Cog6 ok
```
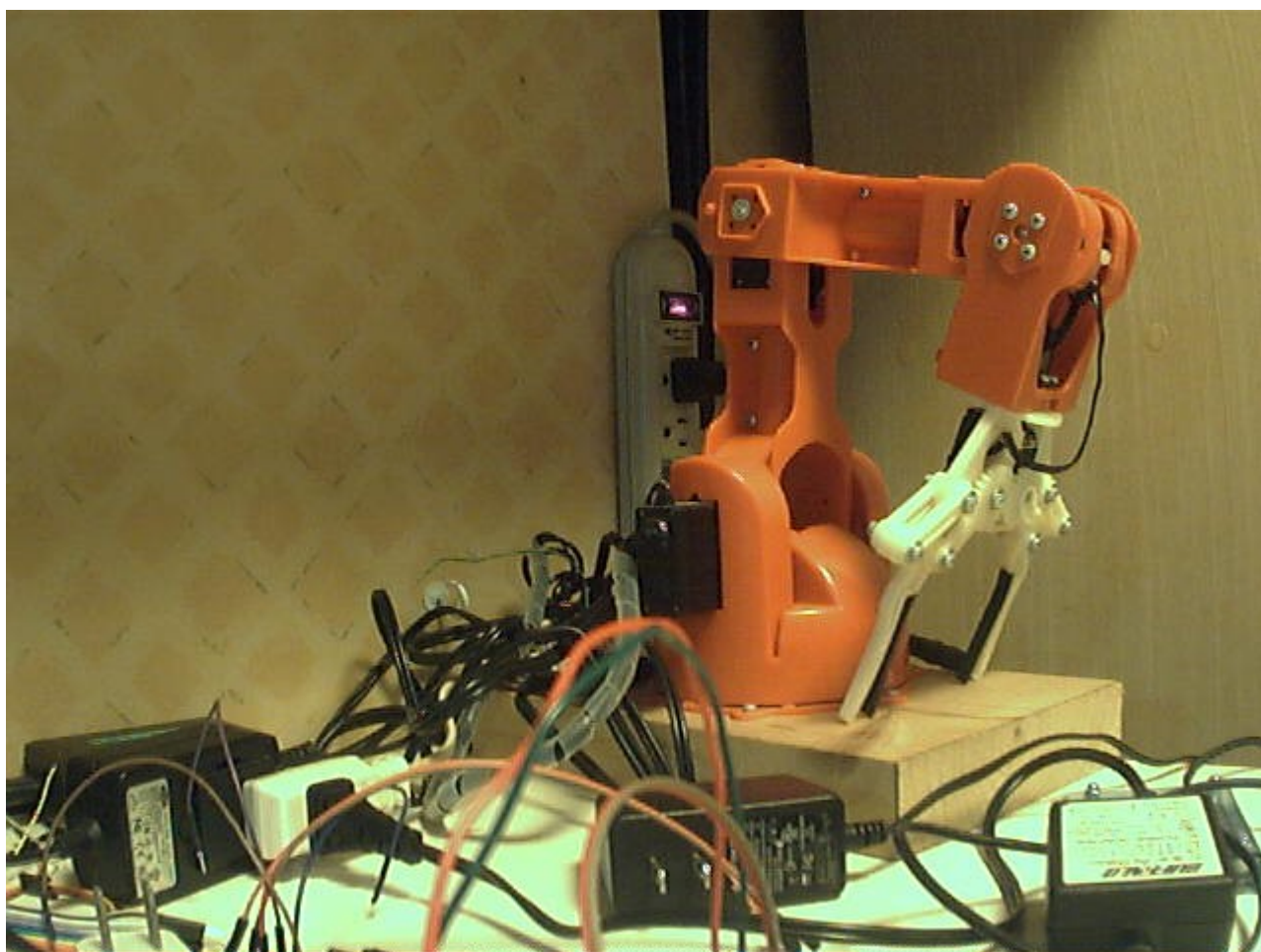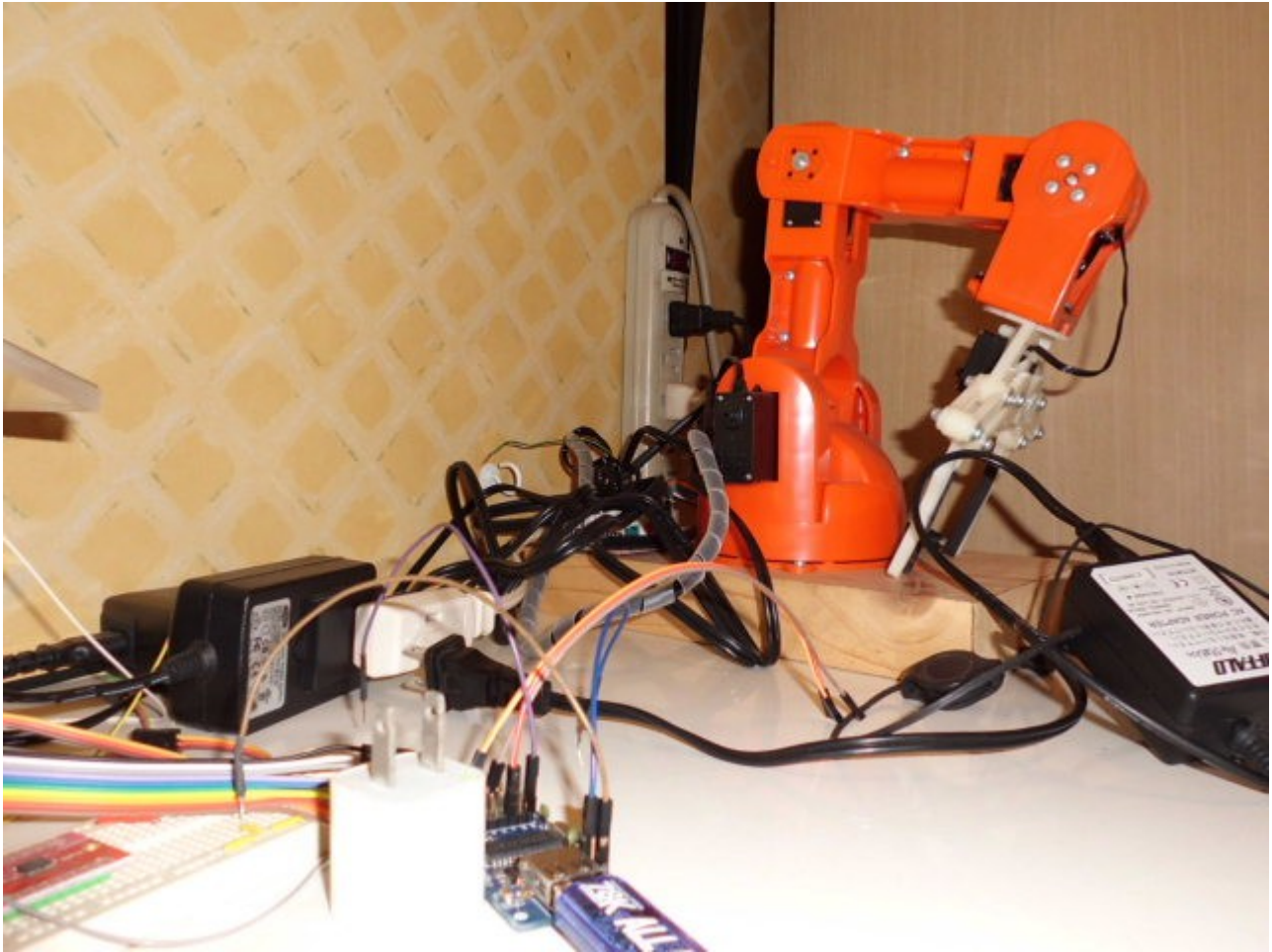
160x120　3636byte

320x240　12588byte

640x480　48360byte

Digital Camera Casio EXILIM EZ-ZS10 640x480 211196byte

Caution;
Inside JPEGview.pde

```
void setup()
{
  size(640,480);
  println( Serial.list() );
  myPort = new Serial( this, "COM12", 38400 );
}
```

When connected USB-serial module, windows set it on COM12.
This might be different on other .

Photo is a little thin color.
And photo edge is bended a little.