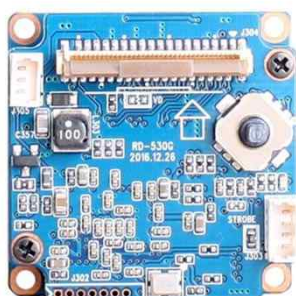
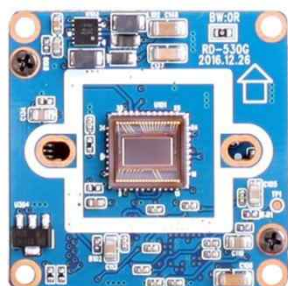


# DCC-740

## CCD VIDEO MODULE

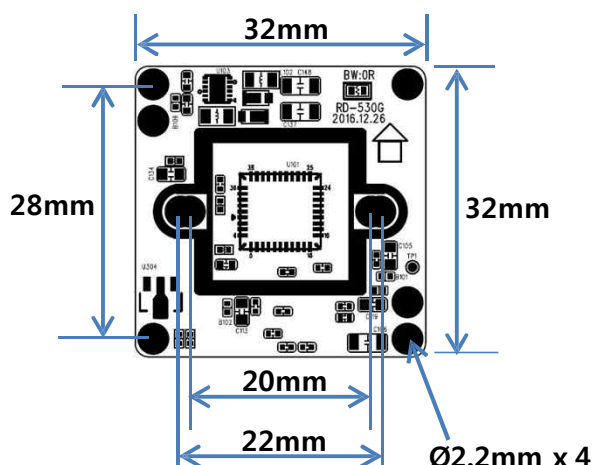


### Main Features

- 1/3" Sharp 2.8μm Pixel Progressive B/W(Mono)CCD Sensor
- 2.07M Pixels – Maximum 1080p(1920x1080p)
- **Global Shutter**
- Mountable Lens: Fixed, Pinhole, DC Auto VF, C/CS Lens
- **BT.1120(1080p Digital Video) Out**
- Pelco-D and ParanTek Protocol Compatible(UART Control)
- **Strobe Signal Out**
- CCD Video Module (32x32mm 2-board)



### Dimension



### Option

- Lens Mount (M12, D14, C/CS)
- OLPF (IR-cut, IR-pass,Band-pass)
- Lens

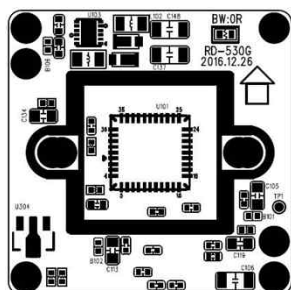
### Specifications

Model	DCC-740
Signal System	BT.1120
Pickup Device	<b>1/3"(D-6.168mm) 2.17M Progressive B/W CCD Sensor</b>
Scanning System	Progressive Scan (16:9)
Sync. System	Internal
Total Pixels	2.17M [1984(H)x1096(V)]
Effective Pixels	2.07M [1920(H)x1080(V)]
Min. Illumination	<b>0.07Lux(F2.5 – 50IRE)</b>
Mechanical ICR	N/A
S/N Ratio	More than 50dB (AGCoff)
Video Out 1	<b>BT.1120 - 1080p@25 (0.5mm pitch 36pin FFC Connector)</b>
Video Out 2	Composite Video 1V p.p (NTSC/PAL - 75Ω) No CVBS out is available under BT.1120 out mode
Lens	<b>Option</b>
Lens (Mount)	Board/Pinhole Mount(M12), VF Mount(D14), C/CS Mount
OSD	Via 5-direction Tact-switch
Camera Title	Off, On(Max. 15 Characters)
Language	English only
Exposure	DC, ELC
HLC	Off, HLC, WDR(Digital), Defog * Digital WDR is not able to operate under DC iris mode
Day & Night Mode	B/W only
Gain Control	Auto (2~36dB), Manual
Electronic Shutter	1/25(15), 1/50(60)~1/50,000sec
Noise Reduction	2D-NR, 3D-NR (Off, Low, Middle, High)
Mirror	Off, On(Mirror, Flip, Rotation)
Other Features	Privacy Mask (8 Zones), Flickerless, Lens Shading, Gamma
Communication	<b>RS232C-TTL 3.3V(Pelco-D, ParanTek protocol) Default: 9600bps</b>
No. of Camera ID	Up to 255
Signal Out	<b>Strobe Signal Out (via Digital Connector)</b>
Power Source	DC9V ~ 15V
Power Consumption	Less than 2.4Watts (200mA@DC12V)
Operating Temp.	-10℃ ~ 55℃ (Humidity :0%RH ~ 90%RH)
Size (mm)	32(W) x 32(D) – 2 board
Weight	18 g (without OLPF)

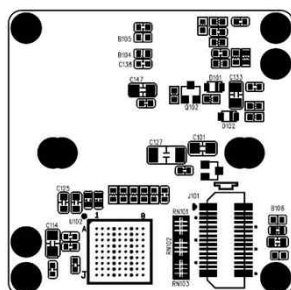
# DCC-740

## CCD VIDEO MODULE

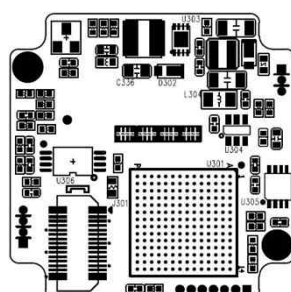
### Pin Connections



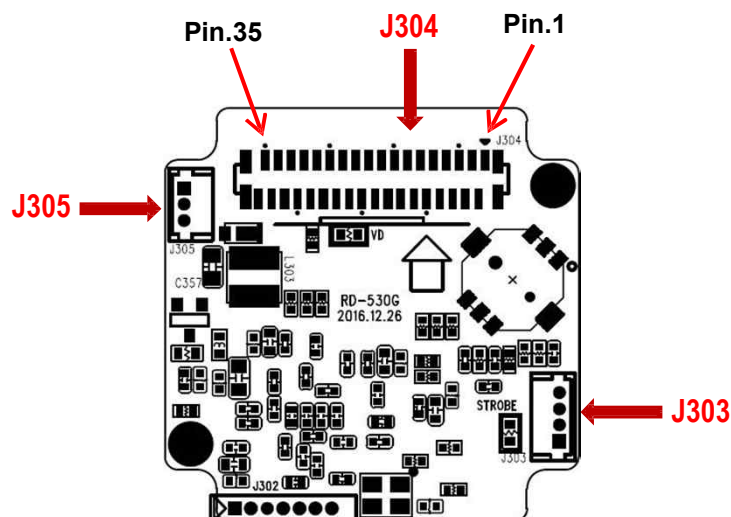
1st Sensor Board – Front



1st Sensor Board – Rear

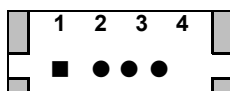


2nd ISP Board – Front



2nd ISP Board – Rear

### J303 – DC IRIS



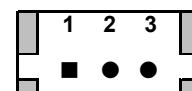
No.	Pin Item	No.	Pin Item
1	DAMP+	3	DRV+
2	DAMP-	4	GND

Wafer DIP type: **1.25mm pitch – 4 pin**

Manufacturer: **Molex**

MFG Part Number: **53047-0410**

### J305 – Power & CVBS



No.	Pin Item	No.	Pin Item
1	CVBS	3	DC12V
2	GND		

Wafer DIP type: **1.25mm pitch – 3 pin**

Manufacturer: **Molex**

MFG Part Number: **53047-0310**

### J304 – BT.1120 & Etc.



No.	Pin Item	No.	Pin Item	No.	Pin Item	No.	Pin Item
1	GND	10	Y-OUT [7]	19	C-OUT [6]	28	GND
2	Y-OUT [0]	11	GND	20	C-OUT [7]	29	GND
3	Y-OUT [1]	12	C-OUT [0]	21	GND	30	GND
4	Y-OUT [2]	13	C-OUT [1]	22	<b>STROBE</b>	31	DC IN
5	Y-OUT [3]	14	C-OUT [2]	23	HSYNC	32	DC IN
6	GND	15	C-OUT [3]	24	GND	33	DC IN
7	Y-OUT [4]	16	GND	25	PCLK	34	GND
8	Y-OUT [5]	17	C-OUT [4]	26	GND	35	TXD (3.3V)
9	Y-OUT [6]	18	C-OUT [5]	27	GND	36	RXD (3.3V)

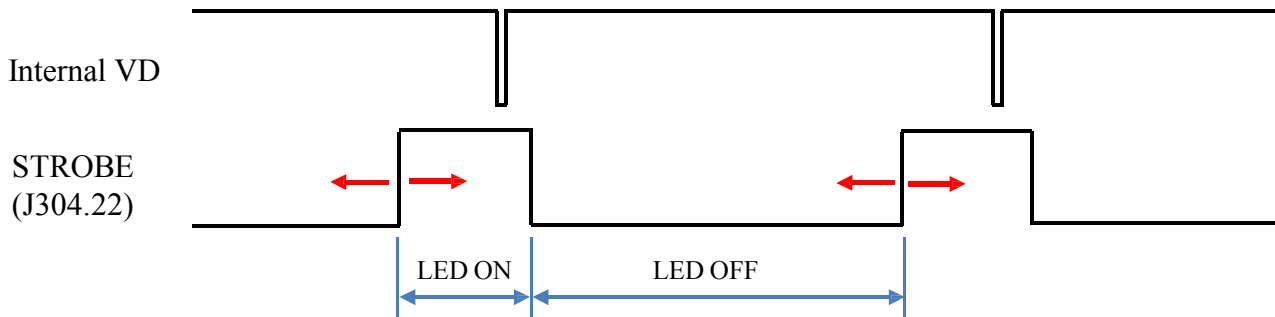
SMD type: **0.5mm pitch – 36 pin**

Manufacturer: **Hirose**

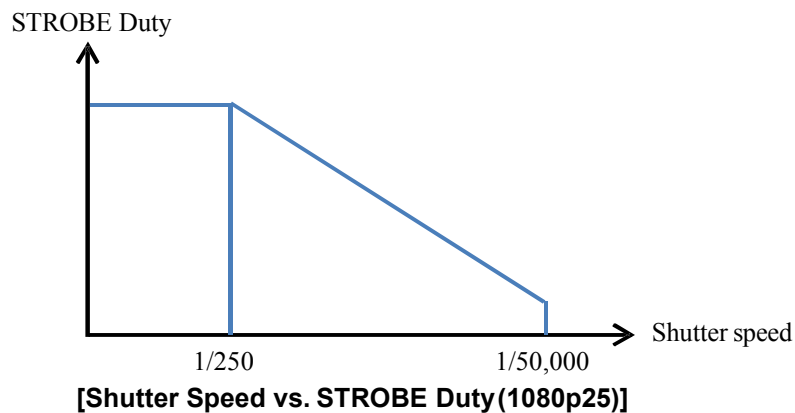
MFG Part Number: **FH12-36S-0.5SV**

## [STROBE SIGNAL]

### STROBE Timing



\*. STROBE(J304 – pin number 22) : This can be used for controlling signal to turn LED on/off



### UART Coding Example

#### 1. DC Lens

(1) Lens Type	DC Lens	54 01 75 01 01 CC
(2) Shutter mode	Manual shutter	54 01 75 02 01 CD
(3) Shutter Speed	1/1,000(example)	54 01 75 0F 06 DF (Shutter 1/1,000 - fixed)

\* Under DC Lens mode, shutter speed which user sets is fixed and DC IRIS will manage depending on the brightness.

\* STROBE Duty is determined by the [Shutter Speed] command.

#### 2. Manual(Fixed) Lens

(1) Lens Type	Manual Lens	54 01 75 01 00 CB
(2) Shutter mode	Auto shutter	54 01 75 02 00 CC
(3) Lower Shutter Limit	1/500(example)	54 01 75 03 04 D1 (Shutter 1/500 ~ 1/50,000)

\* Unlike DC Lens mode, shutter speed which user sets is the minimum shutter speed of the camera in Manual Lens mode.

\* STROBE Duty is determined by the [Lower Shutter Limit] command.

\* To save the changed settings on the memory, send saving packet command of 54 01 76 9F 01 6B.