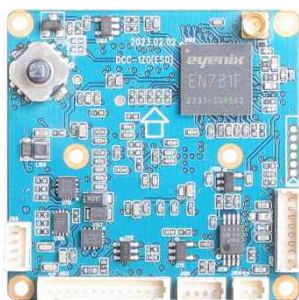
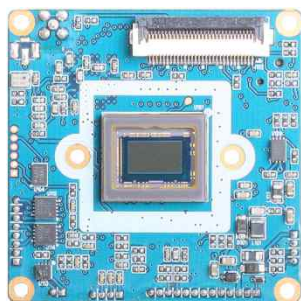


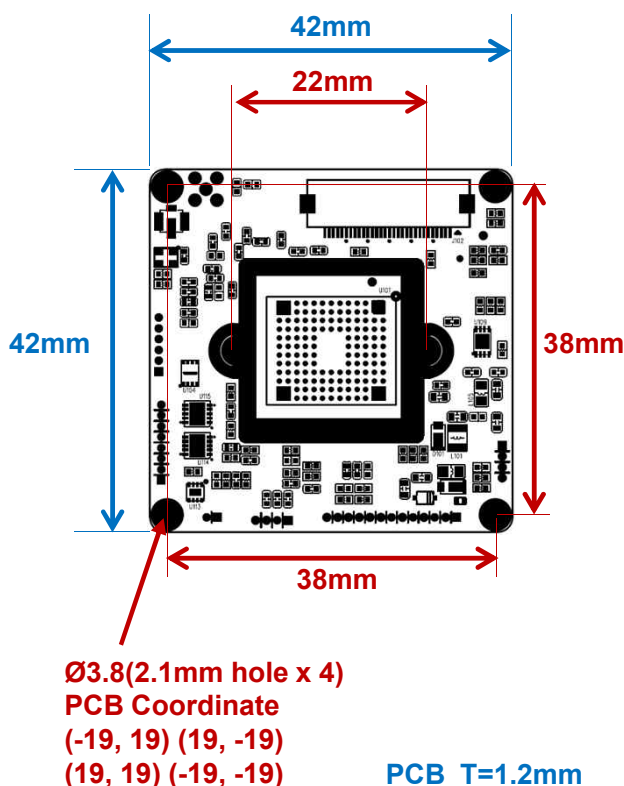
DCC-1Z0

CMOS VIDEO MODULE

PARANTEK



Dimension



Option

- Lens
- TDN ICR

Main Features

- 1/2" Sony 3.75µm Pixel Progressive Color CMOS Sensor
- Approx. 2.12 Mega Pixels (Max. 1080p)
- Mountable Lens: Fixed IRIS, DC Auto IRIS, Auto Focus VF Lens
- WDR / 3D-DNR / DSS (Sens-up) Supported
- Mechanical TDN ICR Available
- Built-in OSD Switch, AD & GPIO OSD Port Available
- Pelco-D and Parantek Serial Protocol Supported (UART Control)
- 3G-SDI / BT.1120 Video Out (Analog Video Outputs Supported)
- CMOS Video Module (42x42mm 1-board)



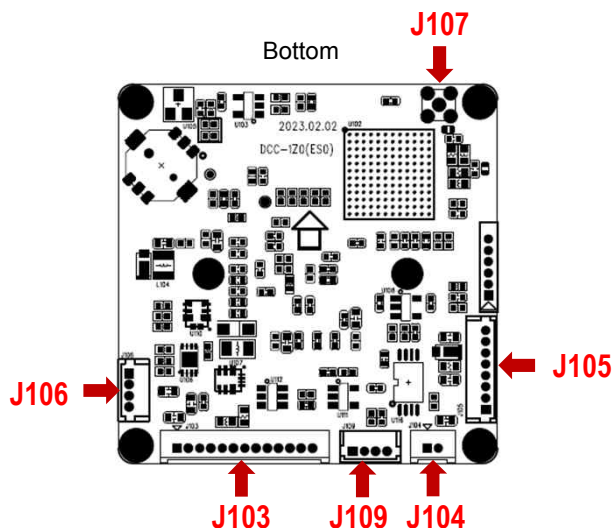
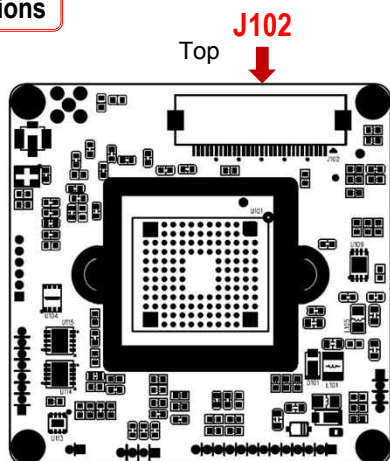
Specification

Model	DCC-1Z0
Signal System	3G-SDI (Serial Data Interface) / BT.1120
Pickup Device	1/2"(D-8.35mm) 2.12M Sony CMOS Sensor
Scanning System	Progressive Scan (16:9)
Sync. System	Internal
Total Pixels	2.17MP [1,952(H)x1,113(V)]
Active Pixels	2.12MP [1,937(H)x1,097(V)]
Min. Illumination	0.03Lux(F2.5 - 30IRE), 0.015Lux(ICR on), 0.001Lux(DSS on)
Mechanical ICR	Available (Option)
Video Out (1)	3G-SDI: 1080p25/30/50/60, 720p25/30/50/60, 1080i50/60
Video Out (2)	BT.1120: 1080p25/30/50/60, 720p25/30/50/60, 1080i50/60
Video Out (3)	AHD, TVI, CVI or Analog CVBS AHD, TVI and CVI: 1080p@25/30 / Analog CVBS: D1
Lens	Option (Fixed & DC Auto IRIS & AF Stepping Motor Lens)
Lens (Mount)	Board/Pinhole Mount(M12), VF (Ø14) & C/CS Mount
OSD	Via OSD Switch, AD or GPIO OSD Port, Serial Communication
Camera Title	Off, On(Max. 8 Characters)
Language	English, Chinese(Simplified), Chinese(Traditional), Japanese, Korean
Exposure	DC, Manual
White Balance	AUTO, AUTOext, Preset, Manual
BLC	Off, HLC, BLC, WDR
Day & Night Mode	AUTO, COLOR, B/W, EXT. D&N
Gain Control	AGC (0~10)
Electronic Shutter	Auto, Manual, Flickerless
DSS(Sens-up)	X32
Noise Reduction	3DNR (Off, Low, Middle, High)
Mirror	Off, On(Mirror, Flip, Rotation)
Other Features	Motion Detection (4 Zones), Privacy Mask (16 Zones), ACE, D-Zoom, Defog, DIS, Freeze, Gamma, Shading etc.
Communication	Pelco-D and Parantek Serial Protocol Supported RS-232C TTL 3.3V (Default: 9600bps, ID1)
Microphone	N/A
Power Source	DC 7~15V
Power Consumption	Less than 3.6 Watts (300mA@DC12V)
Operating Temp.	-10℃ ~ 55℃ (Humidity :0%RH ~ 90%RH)
Size (mm)	42x42 1-board
Weight	9 g (without OLPF)

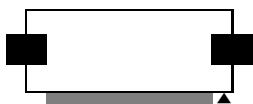
DCC-1Z0

CMOS VIDEO MODULE

Pin Connections



J102 – BT.1120 & Etc.



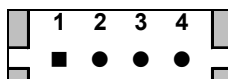
No.	Pin Item	No.	Pin Item
1	RXD	16	Y4
2	TXD	17	Y5
3	NC	18	Y6
4	NC	19	Y7
5	VCC (7~15V)	20	GND
6	VCC (7~15V)	21	PIXEL CLOCK
7	VCC (7~15V)	22	GND
8	GND	23	C0
9	GPIO	24	C1
10	nRESET IN (Camera Reset)	25	C2
11	GND	26	C3
12	Y0	27	C4
13	Y1	28	C5
14	Y2	29	C6
15	Y3	30	C7

Wafer SMD type: **0.5mm pitch – 30 pin**

Manufacturer: **Yeonho**

MFG Part Number: **05002HR-H30J05**

J109 – DC IRIS



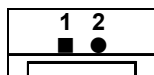
No.	Pin Item	No.	Pin Item
1	DAMP +	3	DRV +
2	DAMP -	4	DRV -

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

Manufacturer: **Molex**

MFG Part Number: **53047-0410**

J104 – TDN ICR



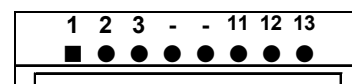
No.	Pin Item	No.	Pin Item
1	ICR (+)	2	ICR (-)

Wafer DIP type: **1.25mm pitch – 2 pin**

Manufacturer: **Yeonho**

MFG Part Number: **12512WS-02B**

J103 – User Interface



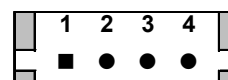
No.	Pin Item	No.	Pin Item
1	CVBS Out	8	Key RIGHT
2	GND	9	Key LEFT
3	DC12V In	10	TXD Out (3.3V TTL)
4	GND	11	RXD In (3.3V TTL)
5	Key DOWN	12	GND
6	Key UP	13	DC3.3V Out
7	Key SET (AD Key)		

Wafer DIP type: **1.25mm pitch – 13 pin**

Manufacturer: **Yeonho**

MFG Part Number: **12512WS-13B**

J106 – LED



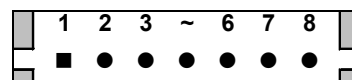
No.	Pin Item	No.	Pin Item
1	LED VCC	3	EXT_DN
2	GND	4	LED_CTL

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

Manufacturer: **Molex**

MFG Part Number: **53047-0410**

J105 – Motor Control



No.	Pin Item	No.	Pin Item
1	FOCUS A-	5	ZOOM B+
2	FOCUS A+	6	ZOOM B-
3	ZOOM A-	7	FOCUS B-
4	ZOOM A+	8	FOCUS B+

Wafer DIP type: **1.25mm pitch – 8 pin**

Manufacturer: **Molex**

MFG Part Number: **53047-0810**

J107 – MMCX for SDI Output

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
LENS				MANUAL / DC
ZOOM/FOCUS	FOCUS MODE			ONESHOT / MANUAL
	D&N FILTER			SYNC OFF / SYNC ON
	POWER ON			ACTION/ NO ACTION
	ONEPUSH AF			Press ENTER Key
	LENS RESET			Press ENTER Key
EXPOSURE	BRIGHTNESS			0 ~ 20 (10)
	SHUTTER	AUTO	Lens Mode DC	INDOOR / OUTDOOR / DEBLUR
			Lens Mode Manual	NORMAL /DEBLUR
		MANUAL		NTSC : 1/30 ,60,120,250,500,1K,2K,4K,8K,15K,30K PAL : 1/25 ,50,100,200,400,800,1.6K,3.2K,6.4K,12.8K,25.6K
	SENS-UP	FLICKER		
				OFF / X2/ X4/ X8 / X16 / X32
BACKLIGHT	AGC			0 ~ 10 (8)
	OFF			
	HLC	LEVEL		0 ~ 20
		COLOR		BLK,WHT,YEL,CYN,GRN,MAG,RED,BLU
	BLC	H-POS		0 ~ 19
		V-POS		0 ~ 18
		H-SIZE		0 ~ 19
		V-SIZE		0 ~ 18
	WDR	WDR MODE		FRAME
		ROI MODE	OFF /ON	
			WINDOW ZONE	0~3
			WINDOW USE	OFF/ON
			DET H-POS	0~240
			DET V-POS	0~135
			DET H-SIZE	0~240
			DET V-SIZE	0~135
	DAY&NIGHT	WEIGHT		LOW/MIDDLE/ HIGH
		D>N THRES		1(bright) ~ 20(dark) (13)
		N>D THRES		0(bright) ~ 19(dark) (7)
		DELAY		0 ~ 15sec (0 Sec)
		BURST		OFF/ ON
		SMART IR		OFF /ON
		SAT.LEVEL		(SMART IR: OFF) NOT USED
				(SMART IR: OFF) 0~20 (5)
		COLOR		
		B&W	BURST	OFF/ ON
			SMART IR	OFF /ON
			SAT.LEVEL	(SMART IR: OFF) NOT USED (SMART IR: OFF) 0~20 (5)
		EXT. D&N	EXTERN SW	HIGH /LOW
			DELAY	0 ~ 15sec (0 sec)
			BURST	OFF/ ON
			SMART IR	OFF /ON
			SAT.LEVEL	(SMART IR: OFF) NOT USED (SMART IR: OFF) 0~20 (5)
WHITE BAL	AWB	AUTO		
		AUTOext		
		PRESET		Press ENTER key
		MANUAL	C-TEMP.	3000K/ 5000K / 8000K
			R-GAIN	0 ~ 20 (10)
			B-GAIN	0 ~ 20 (10)
	COLOR GAIN			0 ~ 20 (10)
DNR				OFF/ LOW/ MIDDLE / HIGH
IMAGE	SHARPNESS			0 ~ 10 (8)
	GAMMA			0.45/ 0.55 / 0.65/ 0.75
	MIRROR			OFF /ON
	FLIP			OFF /ON
	FREEZE			OFF /ON
	D-ZOOM			1.0X~16.0X (1.0X)
	DIS	OFF		
		ON	RANGE	10%, 20%, 30%
			FILTER	LOW/ MIDDLE/ HIGH
			AUTO C	OFF/ HALF/ FULL

SETUP MENU	SUB MENU 1	SUB MENU 2	SUB MENU 3	VALUE
IMAGE	ACE			OFF/LOW/ MIDDLE/ HIGH
	DEFOG	OFF		
		ON	MODE	AUTO/MANUAL
	SHADING	ON	LEVEL	LOW/ MIDDLE/ HIGH
		OFF		
	PRIVACY	BOX	ON	0~100%
			OFF/ON	
			ZONE NUM	0~15
			ZONE DISP	OFF/ON
			H-POS	0~60
			V-POS	0~34
			H-SIZE	0~60
			V-SIZE	0~34
			Y LEVEL	0~20
			CB LEVEL	0~20
			CR LEVEL	0~20
			TRANS	0~3
		POLYGON	OFF/ON	
			ZONE NUM	0~7
			ZONE DISP	OFF/ON
			POS0-X ~POS3-X	0~120
			POS0-Y~POS3-Y	0~68
			Y LEVEL	0~20
			CB LEVEL	0~20
			CR LEVEL	0~20
			TRANS	0~3
i MOTION	OFF			
	ON	DET WINDOW	WINDOW USE	0~3
			WINDOW ZONE	OFF/ON
			DET H-POS	0~60
			DET V-POS	0~34
			DET H-SIZE	0~60
			DET V-SIZE	0~34
		SENSITIVITY		0~10
			ESTIMATE	OFF/ON
				OFF/ON
		QUICK ZOOM	ZOOM SPEED	LOW/MIDDLE/HIGH
			TRACKING	OFF/ON
			REPEAT	OFF/ON
		MOTION OSD		OFF/ON
		TEXT ALARM		OFF/ON
		SIGNAL OUT		OFF/ON
SYSTEM	COMM	CAM ID		0 ~ 255 (1)
		BAUDRATE		2400,4800,9600,57600,115200
		CAM ID DISPLAY		OFF/ON
	OUTPUT	FRAME RATE		1080p30(25), 720p30(25), 720p60(50), 1080i60(50),1080p60(50)
		FREQ		50Hz(PAL) / 60Hz(NTSC)
		SDI MODE		EX-SDI / HD-SDI
		SDI OUT MODE	EX-SDI	135M(V2.0), 135M+(V2.1), 270M(V1.0)
			HD-SDI	Fixed [HD-SDI]
			1080p60(50), HD-SDI	Fixed [3G-SDI]
			1080p60(50), EX-SDI	Fixed [270M]
		ANALOG MODE		CVBS / HD _T / HD _C / HD _A
		CVBS OUT MODE		CENTER CUT / FULL
		DOUT EN.		OFF/ON
		CONFIRM		YES
	LANGUAGE			ENG/ CHINESE/ CHINESE(S)/ JAPANESE/ KOR
	CAM TITLE	OFF		
		RIGHT UP		0 ~ 9, A ~ Z, blank
		LEFT DOWN		0 ~ 9, A ~ Z, blank
FACTORY DEFAULT				Reset to factory setting
EXIT				Exit SETUP menu