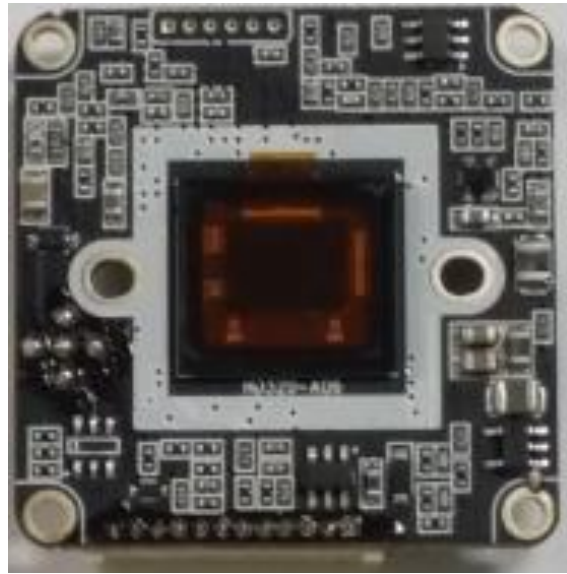


PHD-360

2.1 Mega Pixel Hybrid Output Camera

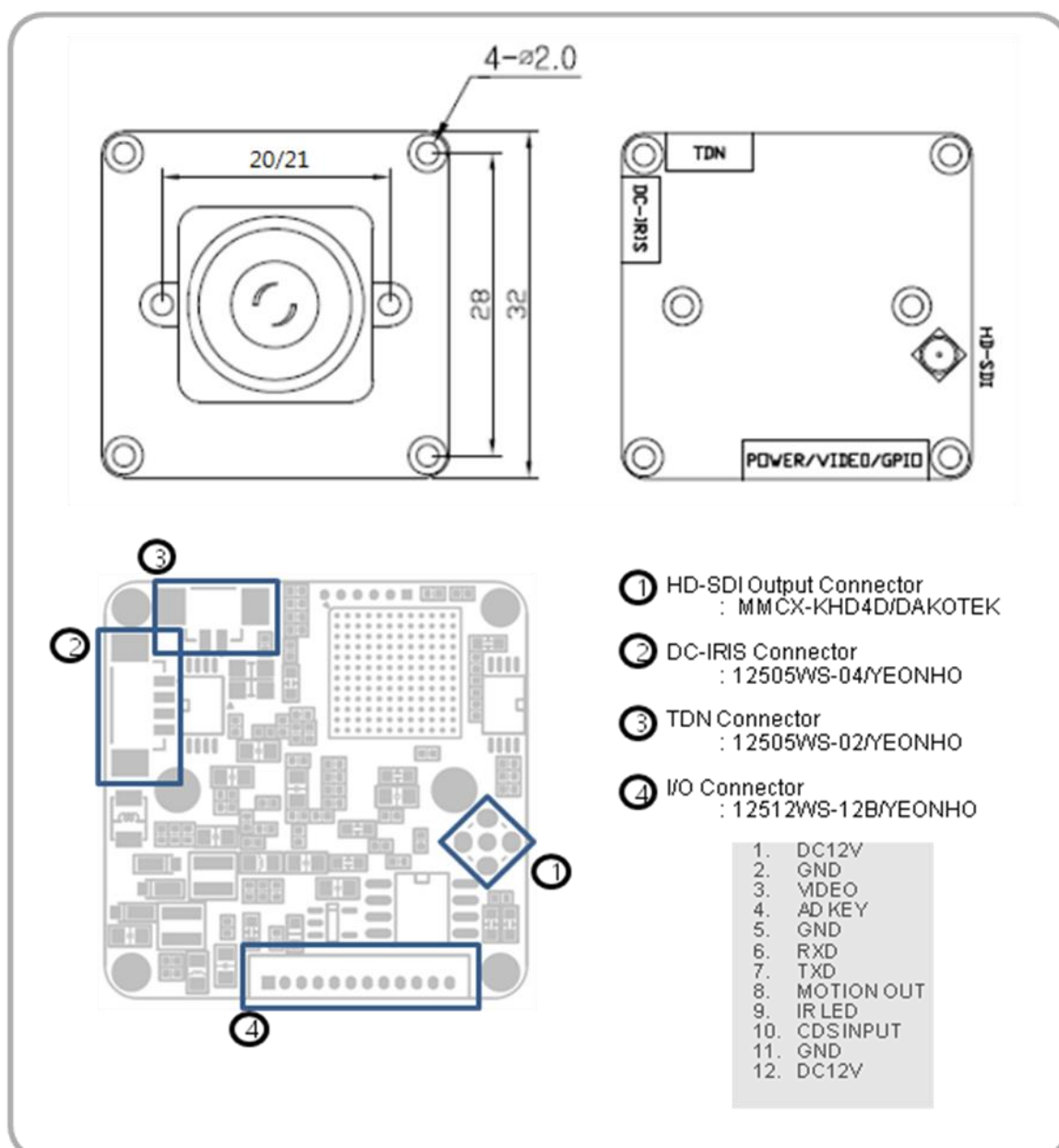
SPECIFICATIONS



FEATURES

- Resolution : **1080P/30fps**
- **High Sensitivity (Sony Starvis CMOS Sensor)**
- WDR (Wide Dynamic Range) : 30fps
- **HD-SDI & EX-SDI & CVBS** Output
- DNR (Digital Noise Reduction. 2D+3D)
- Sense up
- Privacy Mask
- DC IRIS
- Smart IR / Defog
- Pelco-D/P, Protocol
- Dimension : **32mm x 32mm** x 1.6mm

DIMENSION



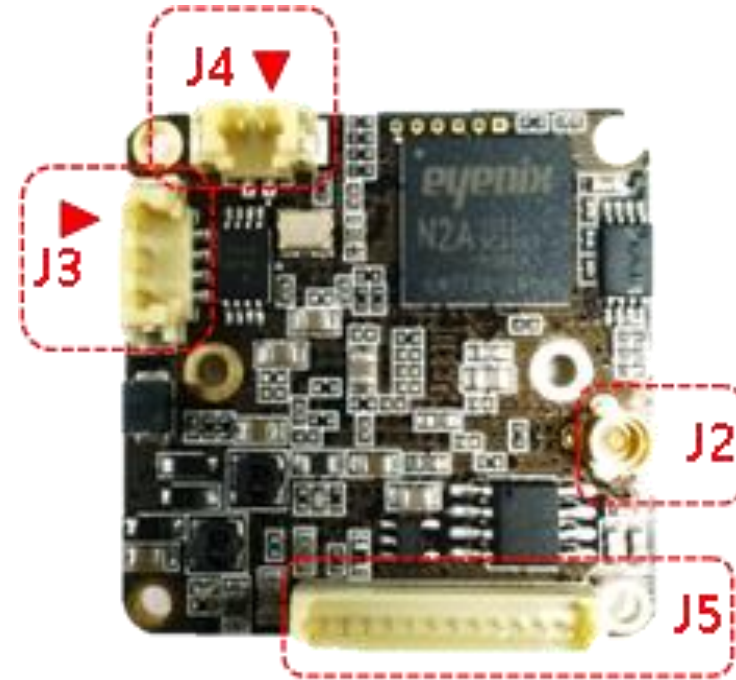
MODEL	PHD-360
Image Sensor	1/2.8 Inch 2.1 Mega Pixel
Scanning system	Progressive
Total Pixels	2024(H) x 1138(V) = 2,303,312 (pixel)
Effective Pixels	1945(H) x 1097(V) = 2,133,665 (pixel)
Resolution	1080p/30fps
Min. illumination	0.1LuX / F2.0
Video Output	HD-SDI (EX-SDI 1.0 ~2.0), CVBS
S/N Ratio	More than 50dB (AGC off)
LENS	ELC / ALC
BRIGHTNESS	0 ~ 20 steps
SHUTTER	AUTO / MANUAL (1/30(25) ~ 1/30000) / FLICKER
SENS-UP	OFF / X2 ~ X32
AGC	0 ~ 20 steps
WHATE BALANCE	AUTO / PUSH / MANUAL / AUTO_NARROW
BLACK LIGHT	OFF / BLC / WDR / HLC
HLC MODE	ALL DAY / NIGHT ONLY
DAY & NIGHT	AUTO / COLOR / B&W / EXTERN_H / EXTERN_L / EXTERN_CDS
SMART IR	OFF / ON (0 ~ 20 steps)
IR LED	ACTIVE-L / ACTIVE-H
DNR	OFF / ON / AUTO (LOW / MIDDLE / HIGH / V-HIGH)
SHARPNESS	0 ~ 10 steps
COLOR GAIN	0 ~ 20 steps
FREEZE	OFF / ON
REVERSE	OFF / H-REV / V-REV / HV-REV
D-ZOOM	OFF / AUTO / MANUAL (1.0x ~ 8.0x)
GAMMA	0.45 / 0.5 / 0.55 / 0.6 / 0.65
DEFOG	OFF / ON (AUTO / MANUAL)
BLACK LEVEL	AUTO / FULL / COMP / USER
VIEW ANGLE	16:9 / 4:3
COLOR BAR	OFF / ON
CAM ID	0 ~ 255
BAUDRATE	2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200
PROTOCOL	PELCO-D / PELCO-P / VISCA
LANGUAGE	ENGLISH/CHINESES(简)/ CHINESES(繁)/ JAPANESE/KOREAN
MOTION	4 ZONE
PRIVACY	BOX (16 ZONE), POLYGON (8 ZONE)
SHADING	OFF / ON
DISPLAY	CAM ID, ZOOM MAG, CAM TITLE
FOCUS ADJ	OFF / ON
DEFECT DET	SUPPORT
RESET	FACTORY / USER / USER SAVE
POWER	DC12V±10%
POWER CONSUMPTION	Max. 1.8W (150mA)
Operating Temperature	-10°C ~ +50°C
Storage Temperature	-20°C ~ +60°C
Dimension	32mm X 32mm X 1.6mm

PHD-360

2.1Mega Pixel Hybrid Output Camera

Interface Information

1. Connector Configuration



2. Connector & Pin Definition

(1) DC IRIS

J3	Name	I/O	12505WS-04/YEONHO
1	DMP+	I	DC-IRIS LENS Driving Signal
2	DMP-	O	DC-IRIS LENS Driving Signal
3	DRV+	O	DC-IRIS LENS Driving Signal
4	DRV-	GND	DC-IRIS LENS Driving Signal

(4) HD-SDI & EX-SDI OUT

J2	Name	I/O	MCX (75ohm)
1	SDI	O	HD-SDI OUT / EX-SDI OUT(1.0&2.0)

(2) TDN

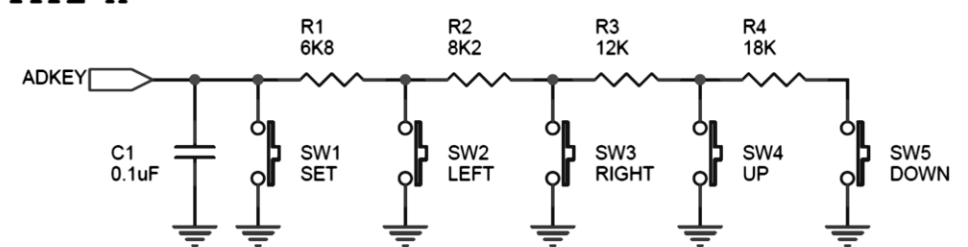
J4	Name	I/O	12505WS-02/YEONHO
1	TDN1	O	TDN Motor Driving Signal Output
2	TDN2	O	TDN Motor Driving Signal Output

(5) OSD Control AD_Key

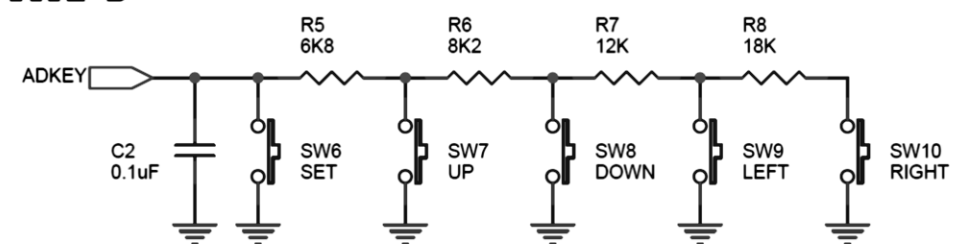
(3) Power / Video / GPIO / ADKEY

J5	Name	I/O	12505WS-12/YEONHO
1	DC12V	P	DC12V Input
2	GND	P	
3	VIDEO	O	Video Output
4	AD KEY	I	AD KEY Input
5	GND	P	
6	RXD	I	RS-232C 3.3V Level
7	TXD	O	RS-232C 3.3V Level
8	MD	O	Motion Detection output (3.3V Level)
9	IR LED	O	IR LED On/Off Signal Output
10	CDS/EXT	I	CDS Sensor Input / Ext Day&Niht input
11	GND	P	
12	DC12V	P	DC12V Output, IR LED Power Input

TYPE-A



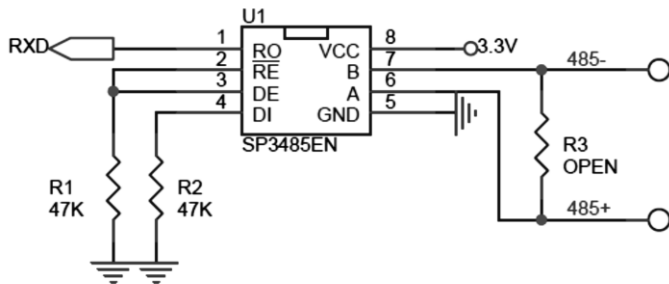
TYPE-B



Application

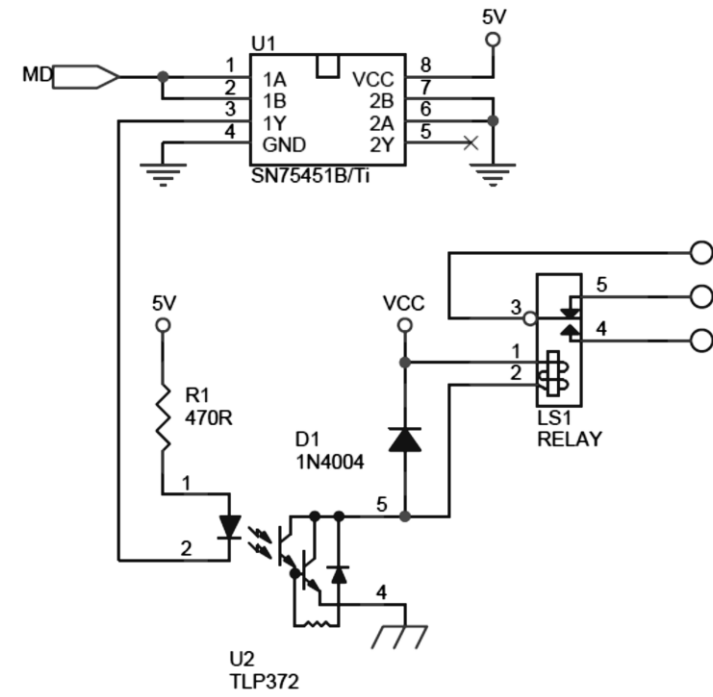
(1) RS-485

RXD:3.3V



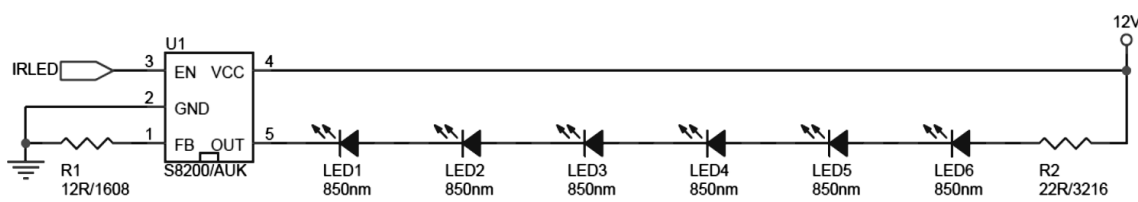
(2) Motion Detect

Low : Max 0.5V
High : Min 3.0V



(3) IR-LED On/Off Output (J5. 9Pin)

Low : Max 0.5V
High : Min 3.0V



(4) Day & Night Signal Input (J5. 10Pin)

Low : Max 0.5V
High : Min 3.0V

(4) CDS Sensor Input (J5. 10Pin)

