



UVL12 Series

Uncooled HD Thermal Imaging Module

User Manual

V1.2



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1. Product Introduction

1.1. Description

The UVL12 series professional high-performance infrared thermal imaging module adopts a 1280×1024 high-resolution infrared detector, equipped with self-developed image processing circuits and a new-generation infrared thermal imaging image processing algorithm. It delivers clear and delicate imaging quality, featuring compact size, low power consumption and comprehensive customization support.

The module supports multiple digital interfaces and control protocols as required, enabling great compatibility with various intelligent processing platforms and high access flexibility. Built with a highly reliable structural design, it boasts excellent vibration and shock resistance, fully meeting the stringent reliability requirements of optoelectronic pods, vehicle-mounted equipment, observation and aiming devices and other similar application scenarios.

This product supports CVBS analog, AHD analog high-definition and various digital video output formats with a maximum output frame rate of 50Hz. It integrates electric focusing, zoom lens control and auto-focus functions. Meanwhile, optional extended functions including picture-in-picture, hot spot tracking, external synchronization and solar glare protection are available. It perfectly satisfies user demands for high resolution, high frame rate, long-distance detection and system integration in diverse practical applications.

1.2. Features

- Excellent image quality
- Low power consumption
- 30/50Hz output
- Supports multiple video output formats
- Built-in focus/zoom lens control and auto focus
- Strong scalability

1.3. Application Scenarios

- Optoelectronic pods
- Vehicle-mounted applications
- Security monitoring
- Border and coastal defense
- Outdoor night vision

2. Product Selection

2.1. Model Coding Rules

UVL12	0035	M	UV
Serial Name	Focal Length	Focusing Mode	Video Output
UVL12: 1280*1024	0000: No Lens 00087: 8.7mm 0035: 35mm 0055: 55mm 0075: 75mm 0100: 100mm 0150: 150mm 25C75:25~75mm 30C150:30~150mm 38C300:38~300mm	N: No Lens A: Fixed Athermalized M: Fixed Manual E: Fixed Motorized Z: Zooming	AD: AHD B6: BT656 B0: BT1120 UV: USB CK: Cameralink LS: LVDS MI: MIPI SI: SDI HI: HDMI

2.2. Typical Selection List

Model	Lens	FOV (°)	Human (1.7×0.5m)			Vehicle (4.6×2.3m)		
			D (m)	R (m)	I (m)	D (m)	R (m)	I (m)
UVL12-00087A	8.7mm Fixed	90×70	638	213	106	1725	575	288
UVL12-0035A	35mm Fixed	24.75×19.91	2479	826	413	6708	2236	1118
UVL12-0055A	55mm Fixed	15.90×12.75	3896	1299	649	10542	3514	1757
UVL12-0075A	75mm Fixed	11.69×9.37	5313	1771	885	14375	4792	2396
UVL12-0100E	100mm Motorized	8.78×7.03	7083	2361	1181	19167	6389	3194
UVL12-0150E	150mm Motorized	5.86×4.69	10625	3542	1771	28750	9583	4792

(D: Detection Distance; R: Recognition Distance; I: Identification Distance)

Note: 1. Lenses are available for customization.

2. The above detection, recognition and identification distances are estimated based on the Johnson Criteria, taking pedestrians (1.7×0.5m) and medium-sized vehicles (4.6×2.3m) as targets.

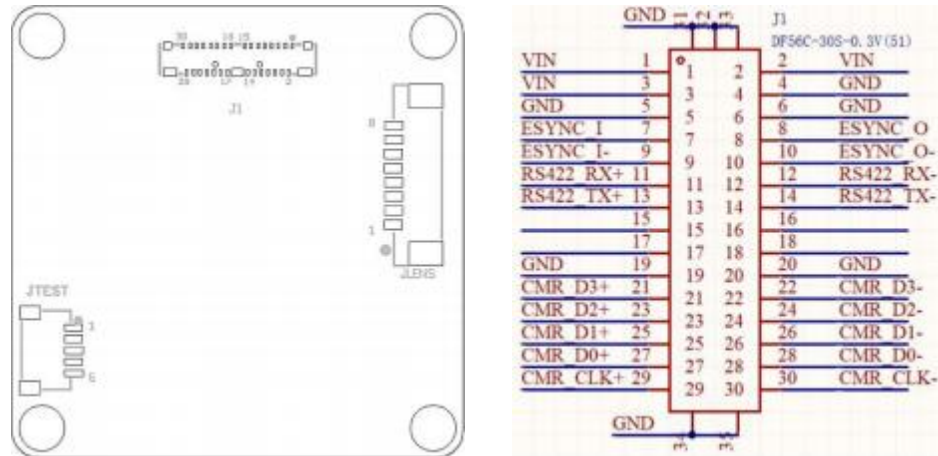
3. Technical Specifications

Detector	VOx Uncooled Microbolometer
Resolution/Pitch Size	1280×1024 / 12μm
Spectral Range	8μm ~ 14μm
NETD	≤40mK@F1.0 25°C
Frame Rate	30/50Hz
Thermal Time Constant	<15ms
Typical Lens Selection	8.7/12/14/19/25/35/55/75/100/150mm/25~75mm/30~150mm, etc.
NUC Correction	Manual/Auto Shutter Correction
Brightness/Contrast	Manual/Auto Adjustment
Image Denoising/DDE	Adjustable
Dead-pixel Correction	Support
Electronic Zoom	1× ~ 8×
Image Mirroring	Vertical/Horizontal/Diagonal
Image Palettes	White Hot/Black Hot/Various Pseudo-color modes
Analog Video Output	CVBS/AHD
Digital Video Output	USB3.0/Cameralink/MIPI/SDI/ BT1120/ HDMI
Power Supply	AHD/BT656/ BT1120/Cameralink/ LVDS/MIPI/ SDI: DC9-24V; USB3.0/HDMI: DC5V
Typical Consumption	≤1.6W @30Hz; ≤2.0W @50Hz
Communication	UART/ RS232/RS422
Size	≤ 43mm×43mm×25mm (without lens)
Weight	≤ 80g (without lens)
Humidity	5%RH~95%RH, non-condensing
Working Temperature	-40°C~+60°C
Storage Temperature	-50°C~+70°C
Vibration	6.06g, random vibration, all axes
Shock	80g@4ms, half-sine pulse, 3 axes & 6 directions
Extensible Functions	Crosshair, hot spot tracking, lens drive (focus, zoom, auto focus), Anti-sunburn protection, external synchronization

Note: All above parameters are measured under laboratory conditions. Actual specifications and test methods shall be subject to the test report.

4. Interface Description

4.1. Cameralink Output (via Standard Interface Board)



4.1.1. DF56C-30S-0.3V(51) - (J1)

User interface adopts DF56C-30S-0.3V(51) connector, integrating interfaces for power supply, communication, Cameralink signal, synchronization signal and others.

4.1.2. HC-1.25-8PWT - (JLENS)

User interface adopts surface-mount HC-1.25-8PWT connector, serving as the interface for lens servo drive board.

4.1.3. HC-1.0-5PWT - (JTEST)

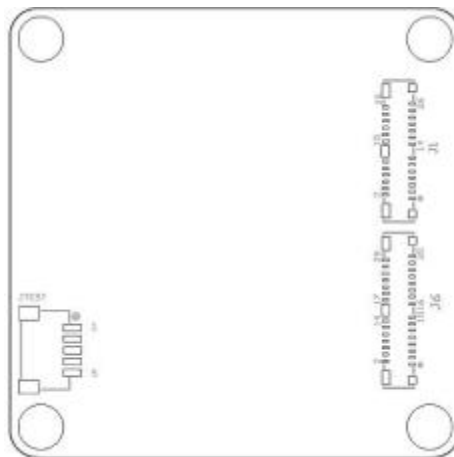
Debug interface adopts surface-mount HC-1.0-5PWT connector, which integrates interfaces for power supply, communication, CVBS signal and other signals.

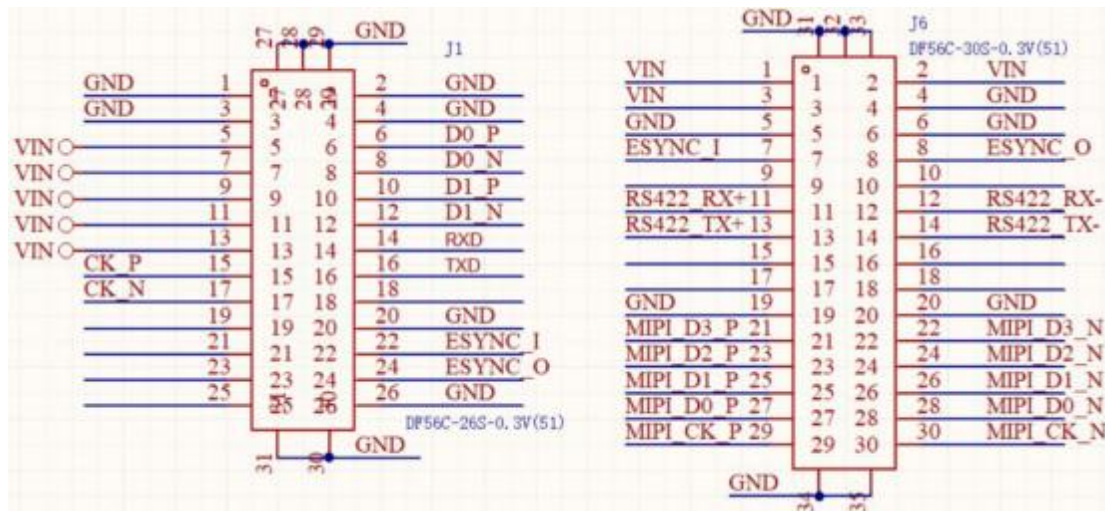
4.1.4. Interface Pin Definition

Pin	Definition	Description
J1		
1~3	VIN	Power Supply, DC9V-24V, typical DC12V. Note: When matching an electronically tuned lens, VIN shall be the rated voltage of the lens motor.
4~6	GND	Power GROUND
7	ESYNC_I	External Sync. Signal Input
8	ESYNC_O	External Sync. Signal Output
9, 10	NC	/
11	RS422_RX+	System → Thermal
12	RS422_RX-	System → Thermal
13	RS422_TX+	Thermal → System
14	RS422_TX-	Thermal → System
15~18	NC	/
19, 20	GND	Power GROUND

21	CMR_D3_P	Differential signal D3+
22	CMR_D3_N	Differential signal D3-
23	CMR_D2_P	Differential signal D2+
24	CMR_D2_N	Differential signal D2-
25	CMR_D1_P	Differential signal D1+
26	CMR_D1_N	Differential signal D1-
27	CMR_D0_P	Differential signal D0+
28	CMR_D0_N	Differential signal D0-
29	CMR_CK_P	Differential signal CLK+
30	CMR_CK_N	Differential signal CLK-
JLENS		
1	VIN	Power supply for lens servo board: typical DC 12V
2	GND	Power GROUND
3	CVBS	Analog Video
4	GND	Power GROUND
5	Lens2IR_R+	RS422_R+, Lens servo board → Thermal
6	Lens2IR_R-	RS422_R-, Lens servo board → Thermal
7	IR2Lens_T-	RS422_T-, Thermal → Lens servo board
8	IR2Lens_T+	RS422_T+, Thermal → Lens servo board
JTEST		
1	VBUS	DC5V
2	GND	Power GROUND
3	CVBS	Analog Video
4	TXD	Thermal → System
5	RXD	System → Thermal

4.2. MIPI Output (via Standard Interface Board)





4.2.1. DF56C-26S-0.3V(51) - (J1)

User interface adopts DF56C-26S-0.3V(51) connector, including interfaces for power supply, communication, **2-lane MIPI signal**, external synchronization signal and others.

4.2.2. DF56C-30S-0.3V(51) - (J6)

User interface adopts DF56C-30S-0.3V (51) connector, including power supply, communication, **4-lane MIPI signal**, external sync signal and other interfaces.

4.2.3. HC-1.0-5PWT - (JTEST)

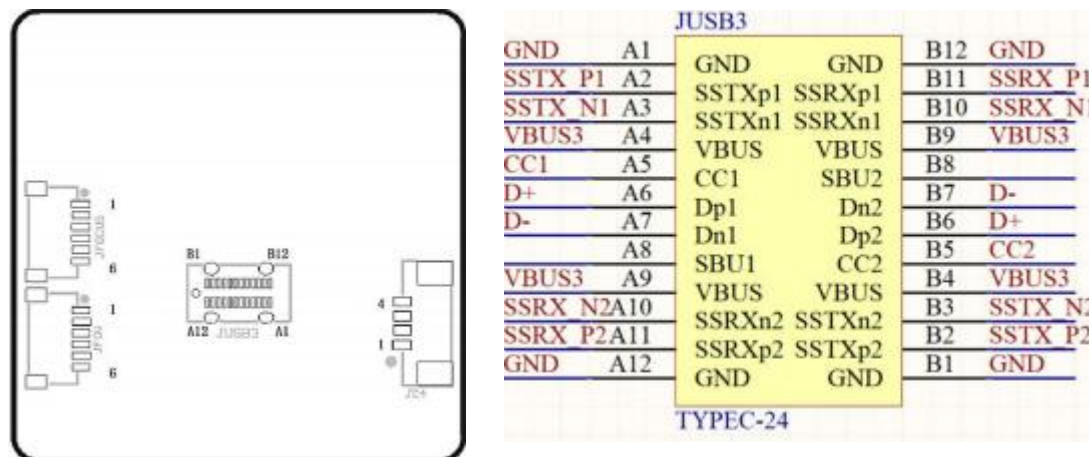
Debug interface adopts surface-mount HC-1.0-5PWT connector, integrating power supply, communication, CVBS signal and other interfaces.

4.2.4. Interface Pin Definition

Pin	Definition	Description
J1 【2LANE】		
1, 2, 3, 4, 20, 26	GND	Power GROUND
5, 7, 9, 11, 13	VIN	Power Supply, DC9V-24V, Typical DC12V
18, 19, 21, 23, 25	NC	/
6	MIPI_D0_P	Differential signal D0+
8	MIPI_D0_N	Differential signal D0-
10	MIPI_D1_P	Differential signal D1+
12	MIPI_D1_N	Differential signal D1-
14	RXD	System —> Thermal

15	MIPI_CK_P	Differential signal CLK+
16	TXD	Thermal —> System
17	MIPI_CK_N	Differential signal CLK-
22	ESYNC_I	External Sync. Signal Input
24	ESYNC_O	External Sync. Signal Output
J6 【4LANE】		
1~3	VIN	Power Supply, DC9V-24V, Typical DC12V
4~6	GND	Power GROUND
7	ESYNC_I	External Sync. Signal Input
8	ESYNC_O	External Sync. Signal Output
9, 10	NC	/
11	RS422_RX+	System —> Thermal
12	RS422_RX-	System —> Thermal
13	RS422_TX+	Thermal —> System
14	RS422_TX-	Thermal —> System
15~18	NC	/
19, 20	GND	Power GROUND
21	MIPI_D3_P	Differential signal D3+
22	MIPI_D3_N	Differential signal D3-
23	MIPI_D2_P	Differential signal D2+
24	MIPI_D2_N	Differential signal D2-
25	MIPI_D1_P	Differential signal D1+
26	MIPI_D1_N	Differential signal D1-
27	MIPI_D0_P	Differential signal D0+
28	MIPI_D0_N	Differential signal D0-
29	MIPI_CK_P	Differential signal CLK+
30	MIPI_CK_N	Differential signal CLK-
JTEST		
1	VBUS	DC5V
2	GND	Power GROUND
3	CVBS	Analog Video
4	TXD	Thermal —> System
5	RXD	System —> Thermal

4.3. USB Output (via Expansion Interface Board)



4.3.1. USB3.0 TYPE-C - (JUSB3)

User interface adopts USB3.0 Type-C port, with onboard USB-UART chip. It supports UVC video protocol and is plug-and-play without driver installation.

4.3.2. HC-1.0-6PWT - (JFOCUS 和 JFOV)

User interface adopts HC-1.0-6PWT connector. JFOCUS and JFOV are focus and zoom interfaces respectively.

4.3.3. HC-1.25-4PWT - (JC4)

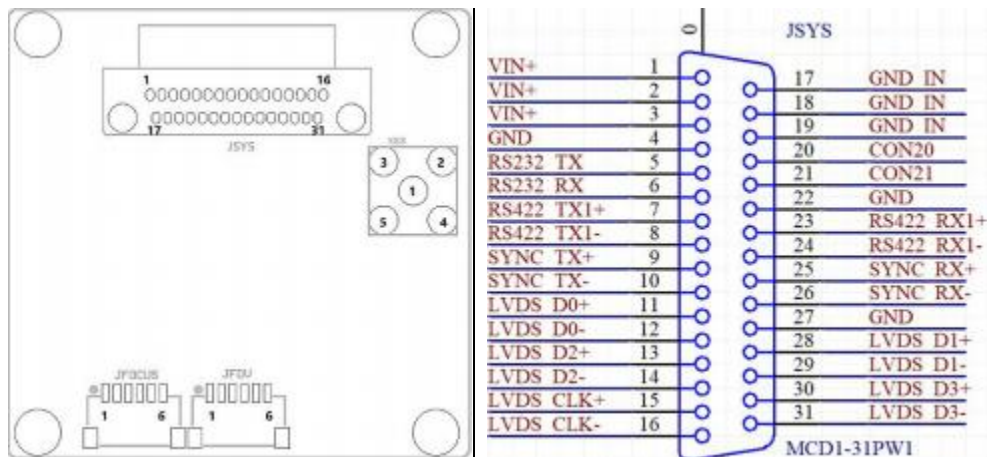
User interface uses surface-mount HC-1.25-4PWT connector, including input power supply voltage for lens motor drive, communication and other interfaces.

4.3.4. Interface Pin Definition

Pin	Definition	Description
JUSB3		
A1	GND	Power GROUND
A2	SSTX_P1	Differential signal pair for high-speed transmission
A3	SSTX_N1	
A4	VBUS3	DC5V
A5	CC1	Configure Channel 1
A6	DP	USB 2.0 D+ Signal
A7	DM	USB 2.0 D- Signal
A8	SBU1	Auxiliary Channel 1
A9	VBUS3	DC 5V
A10	SSRX_N2	Differential signal pair for data receiving

A11	SSRX_P2	Differential signal pair for data receiving	
A12	GND	Power GROUND	
B1	GND	Power GROUND	
B2	SSTX_P2	Differential signal pair for high-speed transmission	
B3	SSTX_N2	Differential signal pair for high-speed transmission	
B4	VBUS3	DC 5V	
B5	CC2	Configure Channel 2	
B6	DP	USB 2.0 D+ Signal	
B7	DM	USB 2.0 D- Signal	
B8	SBU2	Auxiliary Channel 2	
B9	VBUS3	DC 5V	
B10	SSRX_N1	Differential signal pair for data receiving	
B11	SSRX_P1	Differential signal pair for data receiving	
B12	GND	Power GROUND	
JFOCUS			
1	REF2.5V	Reference voltage 2.5V	
2	GND	Power GROUND	
3	DIST1	Potentiometer detection 1	
4	NC	/	
5	FOCUS2	Zooming motor -	
6	FOCUS1	Zooming motor +	
JFOV			
1	REF2.5V	Reference voltage 2.5V	
2	GND	Power GROUND	
3	DIST2	Potentiometer detection 2	
4	NC	/	
5	FOV2	Zooming motor -	
6	FOV1	Zooming motor +	
JC4			
1	POW_IN	Input power supply voltage for lens motor drive, typical DC 12V	
2	GND	Power GROUND	
3	RXD_SYS2IR	System —> Thermal	Note: This port can also be used to control the module
4	TXD_IR2SYS	Thermal —> System	

4.4. LVDS/SDI Output (via Expansion Interface Board)



4.4.1. MDC1-31PW1 - (JSYS)

User interface adopts MDC1-31PW1 connector, including power supply, serial port communication, LVDS signal and other interfaces.

4.4.2. BWMCX-KE - (XS3)

User interface adopts BWMCX-KE connector, serving as the SDI signal interface of the product.

4.4.3. HC-1.0-6PWT - (JFOCUS and JFOV)

User interface adopts HC-1.0-6PWT connector. JFOCUS and JFOV correspond to focus and zoom interfaces respectively.

4.4.4. Interface Pin Definition

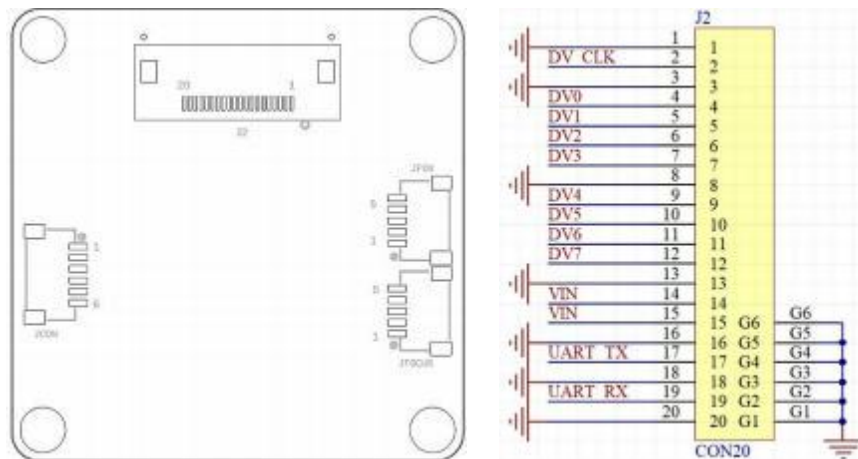
Pin	Definition	Description
JSYS		
1-3	VIN	Power Supply, DC9V-24V, typical DC12V. Note: When matching an electronically tuned lens, VIN shall be the rated voltage of the lens motor.
4	GND	Power GROUND
5	RS232_TX	For function expansion
6	RS232_RX	For function expansion
7	RS422_TX+	Thermal —> System
8	RS422_TX-	System —> Thermal
9	SYNC_TX+	For function expansion (External Sync Output +)
10	SYNC_TX-	For function expansion (External Sync Output -)
11	LVDS_D0+	Differential signal D0+
12	LVDS_D0-	Differential signal D0-
13	LVDS_D2+	Differential signal D2+

14	LVDS_D2-	Differential signal D2-
15	LVDS_CLK+	Differential signal CLK+
16	LVDS_CLK-	Differential signal CLK-
17-19	GND	Power GROUND
20-21	NC	/
22	GND	Power GROUND
23	RS422_RX+	System —> Thermal
24	RS422_RX-	Thermal —> System
25	SYNC_RX+	For function expansion (External Sync Input +)
26	SYNC_RX-	For function expansion (External Sync Input -)
27	GND	Power GROUND
28	LVDS_D1+	Differential signal D1+
29	LVDS_D1-	Differential signal D1-
30	LVDS_D3+	Differential signal D3+
31	LVDS_D3-	Differential signal D3-

XS3

1	SDI VIDEO1	SDI output
2-5	GND	Power GROUND
JFOCUS		
1	VR_BMQ	Reference voltage 2.5V
2	GND	Power GROUND
3	DIST1	Potentiometer detection 1
4	NC	/
5	FOCUS2	Zooming motor -
6	FOCUS1	Zooming motor +
JFOV		
1	VR_BMQ	Reference voltage 2.5V
2	GND	Power GROUND
3	DIST2	Potentiometer detection 2
4	NC	/
5	FOV2	Zooming motor -
6	FOV1	Zooming motor +

4.5. BT656 Output (via Expansion Interface Board)



4.5.1. 20455-020E-12 connector - (J2)

User interface adopts 20455-020E-12 connector, including power supply, UART communication, BT656 signal and other interfaces.

4.5.2. HC-1.0-5WT - (JFOCUS and JFOV)

User interface adopts HC-1.0-5PWT connector. JFOCUS and JFOV are focus and zoom interfaces respectively.

4.5.3. HC-1.0-6PWT - (JCON)

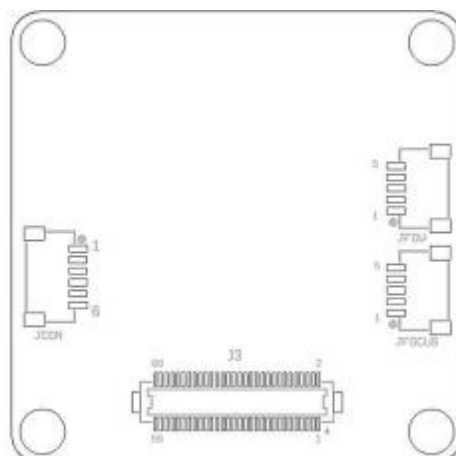
Debug interface adopts HC-1.0-6PWT connector, including power supply, communication, CVBS signal and other interfaces.

4.5.4. Interface Pin Definition

Pin	Definition	Description
J2		
1	GND	Power GROUND
2	DV_CLK	System Clock
3	GND	Power GROUND
4	DV0	Data bit: D0
5	DV1	Data bit: D1
6	DV2	Data bit: D2
7	DV3	Data bit: D3
8	GND	Power GROUND
9	DV4	Data bit: D4
10	DV5	Data bit: D5
11	DV6	Data bit: D6
12	DV7	Data bit: D7
13	GND	Power GROUND
14	VIN	Power input, DC9-24V, typical DC12V

15	VIN	Power input, DC9-24V, typical DC12V
16	GND	Power GROUND
17	UART_TXD	Thermal —> System
18	GND	Power GROUND
19	UART_RXD	System —> Thermal
20	GND	Power GROUND
JFOCUS		
1	REF	Reference voltage 1.25V
2	DIST1	Potentiometer detection 1
3	GND	Power GROUND
4	FOCUS2	Zooming motor -
5	FOCUS1	Zooming motor +
JFOV		
1	REF	Reference voltage 1.25V
2	DIST2	Potentiometer detection 2
3	GND	Power GROUND
4	FOV2	Zooming motor -
5	FOV1	Zooming motor +
JCON		
1	VIN	Power input, DC9-24V, typical DC12V
2	GND	Power GROUND
3	UART_RXD	System —> Thermal
4	UART_TXD	Thermal —> System
5	GND	GROUND (Serial Port/Video)
6	VIDEO	CVBS analog output, PAL

4.6. BT1120 Output (via Expansion Interface Board)



40	1	VIN
39	2	VIN
38	3	VIN
37	4	VIN
36	5	GND
35	6	GND
34	7	GND
33	8	GND
32	9	GND
31	10	GND
30	11	
29	12	
28	13	
27	14	
26	15	
25	16	
24	17	GND
23	18	VIDEO
22	19	GND
21	20	
20	21	GND
19	22	GND
18	23	BT1120 D1
17	24	BT1120 D5
16	25	
15	26	BT1120 D7
14	27	
13	28	BT1120 CLK
12	29	
11	30	BT1120 D2

DF12NB-60DS-0.5V(51)

4.6.1. DF12NB-60DS-0.5V(51) - (J3)

User interface adopts DF12NB-60DS-0.5V(51) connector, including power supply, communication and BT1120 signal interfaces.

4.6.2. HC-1.0-5WT - (JFOCUS and JFOV)

User interface adopts HC-1.0-5PWT connector. JFOCUS and JFOV are focus and zoom interfaces respectively.

4.6.3. HC-1.0-6PWT - (JCON)

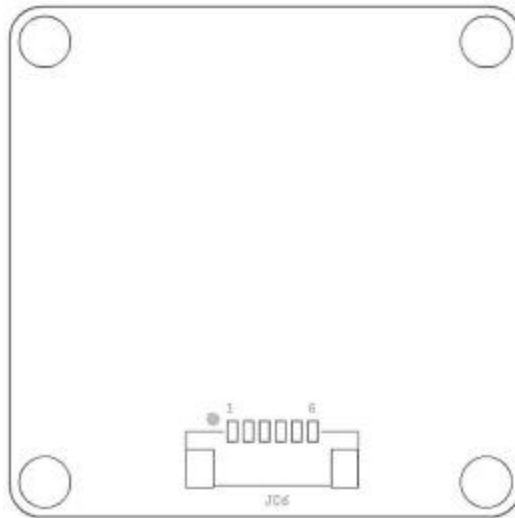
Debug interface adopts HC-1.0-6PWT connector, including power supply, serial port communication and CVBS signal interfaces.

4.6.4. Interface Pin Definition

Pin	Definition	Description
J3		
1~4	VIN	Power input, DC9-24V, typical DC12V
5~8	GND	Power GROUND
9	NC	/
10	GND	Power GROUND
11~16	NC	/
17	GND	Power GROUND
18	VIDEO	CVBS analog output, PAL
19	GND	Power GROUND
20	NC	/
21,22	GND	Power GROUND
23	BT1120_D1	Data bit: D1
24	BT1120_D5	Data bit: D5
25	NC	/
26	BT1120_D7	Data bit: D7
27	NC	/
28	BT1120_CLK	Clock Signal
29	NC	/
30	BT1120_D2	Data bit: D2
31	BT1120_D8	Data bit: D8
32	BT1120_D6	Data bit: D6
33	BT1120_D10	Data bit: D10
34	BT1120_D3	Data bit: D3
35	BT1120_D12	Data bit: D12

36	BT1120_D11	Data bit: D11
37	BT1120_D13	Data bit: D13
38	BT1120_D15	Data bit: D15
39	BT1120_D14	Data bit: D14
40	BT1120_D4	Data bit: D4
41	GND	Power GROUND
42	GND	Power GROUND
43	NC	/
44	BT1120_D9	Data bit: D9
45	NC	/
46	BT1120_D0	Data bit: D0
47~54	NC	/
55	UART_RXD	System —> Thermal
56	GND	Power GROUND
57	UART_TXD	Thermal —> System
58	NC	/
59	GND	Power GROUND
60	NC	/
JFOCUS		
1	REF	Reference voltage 1.25V
2	DIST1	Potentiometer detection 1
3	GND	Power GROUND
4	FOCUS2	Zooming motor -
5	FOCUS1	Zooming motor +
JFOV		
1	REF	Reference voltage 1.25V
2	DIST2	Potentiometer detection 2
3	GND	Power GROUND
4	FOV2	Zooming motor -
5	FOV1	Zooming motor +
JCON		
1	VIN	Power input, DC9-24V, typical DC12V
2	GND	Power GROUND
3	UART_RXD	System —> Thermal
4	UART_TXD	Thermal —> System
5	GND	GROUND (Serial Port/Video)
6	VIDEO	CVBS analog output, PAL

4.7. AHD Output (via Expansion Interface Board)



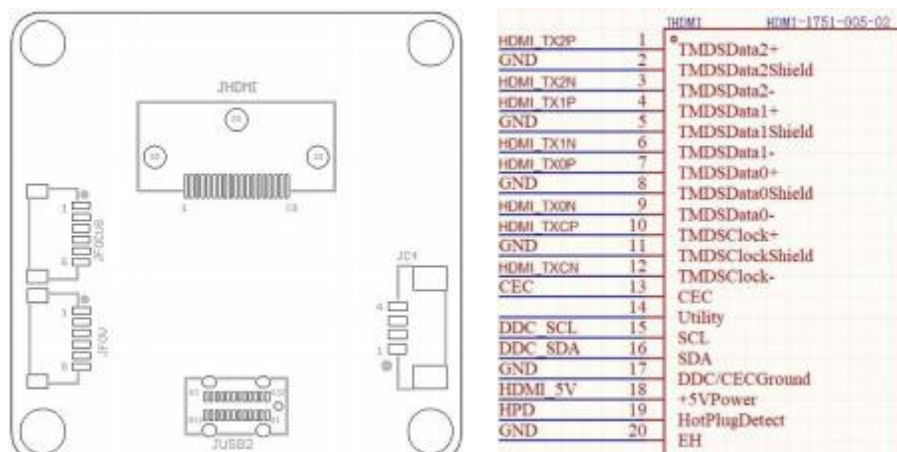
4.7.1. HC-1.25-6PWT - (JC6)

User interface adopts horizontal mount HC-1.25-6PWT connector, including power supply, communication, AHD signal and other interfaces.

4.7.2. Interface Pin Definition

Pin	Definition	Description
JC6		
1	VIN	Power input, DC9-24V, typical DC12V
2	GND	Power GROUND
3	UART_RXD	System —> Thermal
4	UART_TXD	Thermal —> System
5	GND	GROUND (Serial Port/Video)
6	HD_OUT	AHD output (1080P@30Hz)

4.8. HDMI Output (via Expansion Interface Board)



4.8.1. HDMI-1751-005-02 - (JHDMI)

User interface adopts HDMI-1751-005-02 connector, which is a standard Type-A HDMI female socket.

4.8.2. U263-243N-4BQC17-1 - (JUSB2)

User interface adopts U263-243N-4BQC17-1 connector, which integrates interfaces for product power supply, communication and others.

4.8.3. HC-1.0-6PWT - (JFOCUS and JFOV)

User interface adopts HC-1.0-6PWT connector. JFOCUS and JFOV are focus adjustment and zoom interfaces respectively.

4.8.4. HC-1.25-4PWT - (JC4)

User interface adopts horizontal mount HC-1.25-4PWT connector, including input power voltage for lens motor drive, communication and other interfaces.

4.8.5. Interface Pin Definition

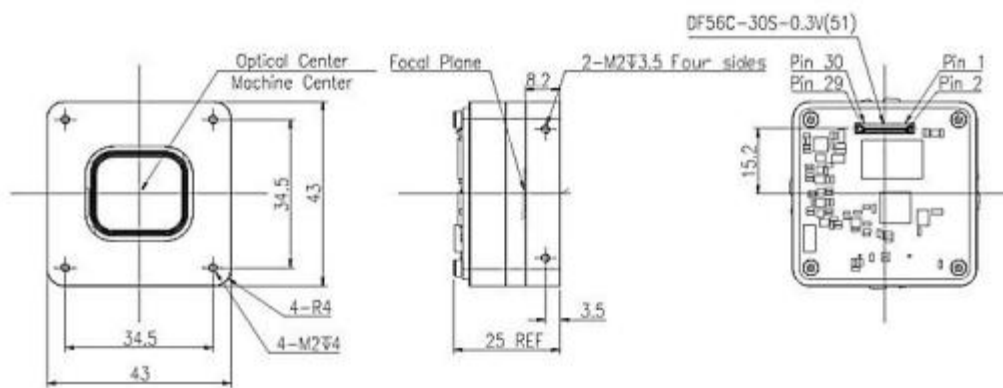
Pin	Definition	Description
JHDMI		
1	HDMI_TX2P	TMDS data 2+
2	GND	Power GROUND
3	HDMI_TX2N	TMDS data 2-
4	HDMI_TX1P	TMDS data 1+
5	GND	Power GROUND
6	HDMI_TX1N	TMDS data 1-
7	HDMI_TX0P	TMDS data 0+
8	GND	Power GROUND
9	HDMI_TX0N	TMDS data 0-
10	HDMI_TXCP	TMDS clock +
11	GND	Power GROUND
12	HDMI_TXCN	TMDS clock -
13	CEC	Consumer Electronics Control
14	NC	/
15	DDC_SCL	SCL (DDC Serial Clock)
16	DDC_SDA	SDA (DDC Serial Data)
17	GND	Power GROUND

18	HDMI_5V	+5V Power supply (max. 50mA)
19	HPD	Hot Plug Detect (Ver1.3) / HEC Data+ (Ver1.4)
20	GND	Power GROUND
JUSB2		
A1	GND	Power GROUND
A2	NC	/
A3	NC	/
A4	VBUS	DC5V
A5	CC1	Configuration Channel 1
A6	DP	USB 2.0 D+ signal
A7	DM	USB 2.0 D- signal
A8	SBU1	Auxiliary Channel 1
A9	VBUS	DC 5V
A10	NC	/
A11	NC	/
A12	GND	Power GROUND
B1	GND	Power GROUND
B2	NC	/
B3	NC	/
B4	VBUS	DC 5V
B5	CC2	Configuration Channel 2
B6	DP	USB 2.0 D+ signal
B7	DM	USB 2.0 D- signal
B8	SBU2	Auxiliary Channel 2
B9	VBUS	DC 5V
B10	NC	/
B11	NC	/
B12	GND	Power GROUND
JFOCUS		
1	REF2.5V	Reference voltage 2.5V
2	GND	Power GROUND
3	DIST1	Potentiometer detection 1
4	NC	/
5	FOCUS2	Zooming motor -

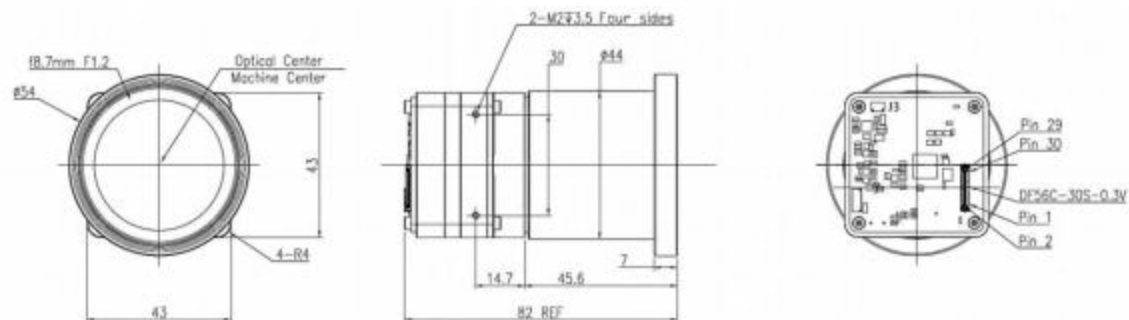
6	FOCUS1	Zooming motor +	
JFOV			
1	REF2.5V	Reference voltage 2.5V	
2	GND	Power GROUND	
3	DIST2	Potentiometer detection 2	
4	NC	/	
5	FOV2	Zooming motor -	
6	FOV1	Zooming motor +	
JC4			
1	POW_IN	Lens motor drive power voltage input, typical DC12V	
2	GND	Power GROUND	
3	RXD_SYS2IR	System —> Thermal	Note: This port can also be used to control the module
4	TXD_IR2SYS	Thermal —> System	

5. Typical Structural Size

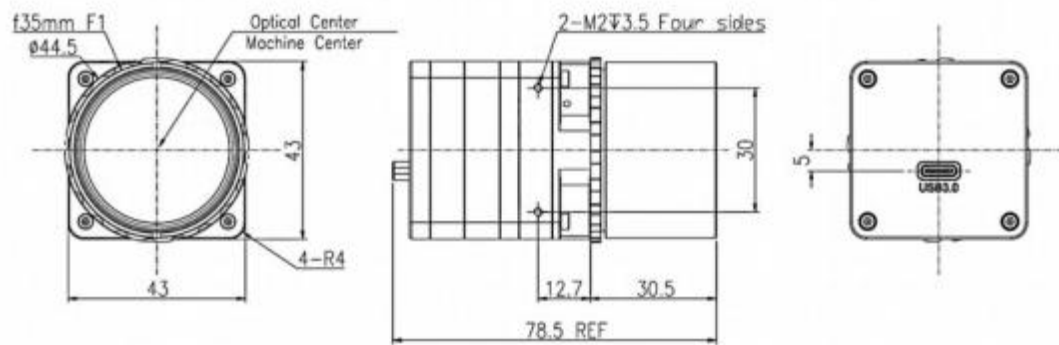
5.1. UVL12-0000N (Standard interface board, without lens)



5.2. UVL12-00087A-MI (MIPI output, 8.7mmF1.2 fixed athermalized lens)



5.3. UVL12-0035A-UV (USB interface board, 35mmF1.0 fixed athermalized lens)



5.4. UVL12-0055A-UV (USB interface board, 55mmF1.0 fixed athermalized lens)

