

# OASIS-4i Pinout Information



## SK1 - 44-way HD-type female - XYZ, video, and digital outputs on front panel.

The main connector for XY stage, Z focus, video I/O, XYZ encoder input, and digital output signaling.

Pin	Signal	Pin	Signal
1	Video in (Y)	23	I/O Control 2
2	Ground (Video in Y)	24	Y Encoder B
3	Z-axis Cosine Out	25	Y Encoder A
4	Z-axis Sine Out	26	Ground
5	Z-axis Sine Return	27	No Connect
6	Z-axis Cosine Return	28	X Encoder B
7	Y-axis Cosine Out	29	X Encoder A
8	Y-axis Sine Out	30	Ground
9	Y-axis Sine Return	31	Video out (Y)
10	Y-axis Cosine Return	32	Ground (Video out Y)
11	X-axis Cosine Out	33	Video out (C)
12	X-axis Sine Out	34	Ground (Video out C)
13	X-axis Sine Return	35	Z Limit -ve
14	X-axis Cosine Return	36	Z Limit +ve
15	Key (No connect)	37	Open Collector Output 1 (100R current limit resistor)
16	Key (No connect)	38	+ 5V (Fused - 1A)
17	Video in (C)	39	Y Limit -ve
18	Ground (Video in C)	40	Y Limit +ve
19	I/O Control 1	41	Open Collector Output 2 (No current limit resistor)
20	Z Encoder B	42	+12 V (Fused - 1A)
21	Z Encoder A	43	X Limit -ve
22	Ground	44	X Limit +ve

## PL2 - 25-way D-type female - F-axis connector

Fourth axis connector designed to be connected to filter wheels, motorized zoom, and general-purpose motor drive. Connected to PL2 via ribbon cable.

Pin	Signal	Pin	Signal
1	F-axis Sine Out	9	F Limit +
2	F-axis Sine Return	10	F Limit
3	F-axis Cosine Out	11	N/C
4	F-axis Cosine Return	12	N/C
5	F Encoder A	13	Home Input
6	F Encoder B	14	+5V
7	N/C	15	+5V
8	N/C	16 - 25	0V

## PL1 – 9-way D-type male - Trackball/Mouse port on front panel

RS232 port designed to connect to a serial mouse or trackball.

Pin	Signal
1	N/C
2	data receive
3	data transmit
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	N/C

## PL7 – 26-way header male – Analog/Joystick port

Pin	Signal	Pin	Signal
1	VRef	14	GND
2	GND	15	DSP Serial Port Data transmit
3	Joystick X Input	16	GND
4	GND	17	DSP Serial Port gated SCLK
5	Joystick Y Input	18	GND
6	GND	19	DSP Serial Port Receive Frame Sync (RFS)
7	GND	20	N/C
8	N/C	21	DSP Serial Port Data Receive
9	+5V	22	N/C
10	N/C	23	DSP IRQE (Focus Digi-knob A signal)
11	DSP Serial Port gated SCLK	24	N/C
12	GND	25	TTL Input (Focus Digi-knob B signal)
13	DSP Serial Port Transmit Frame Sync (TFS)	26	N/C

## PL4 – 10-way header male - TTL input port

TTL/3.3V compatible input port.

Pin	Signal
1	Input 0
2	GND
3	Input 1
4	GND
5	Input 2
6	GND
7	Input 3
8	GND
9	+3.3V
10	GND

