

Connections



Connector J3: FROM 2nd RGB INPUT (Port 3)

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	GND		GROUND	0V
2	R(2RGB)	In	RED SIGNAL INPUT	1Vpp
3	GND		GROUND	0V
4	G(2RGB)	In	GREEN SIGNAL INPUT	1Vpp
5	GND		GROUND	0V
6	B(2RGB)	In	BLEU SIGNAL INPUT	1Vpp
7	GND		GROUND	0V

Connector J7: FROM CONTROLLER

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	GND		GROUND	0V
2	RInsert	In	INPUT RED TEXT FROM CONTROLLER	TTL
2	GInsert	In	INPUT GREEN TEXT FROM CONTROLLER	TTL
2	BInsert	In	INPUT BLEU TEXT FROM CONTROLLER	TTL
5	Insert	In	INPUT INSERT FROM CONTROLLER	TTL
6	HSINT	In	INPUT HOR SYNC PULSES	TTL
7	VSINT	In	INPUT VERT SYNC PULSES	TTL

Connector J61: CONNECTION WITH FRAME

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	Bin	IN	BLEU VIDEO INPUT (BNC)	1Vpp
5	Gin	IN	GREEN VIDEO INPUT (BNC)	1Vpp
13	Rin	IN	RED VIDEO INPUT(BNC)	1Vpp
17	HSin	IN	EXT HOR/COMPOSITE SYNC	0.3...5Vpp
21	VSin	IN	EXT VERTICAL SYNC INPUT	0.3...5Vpp
25	VIDin	IN	VIDEO COMPOSITE INPUT SIGNAL	1Vpp
2/6/14/18/22/26			GROUND	0V

Connector J62: CONNECTION WITH FRAME

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	CP	OUT	CLAMP PULSES TO RGB DRIVER	TTL
2	VS	OUT	VERTICAL SYNC PULSES TO VERT DEFL	1Vpp
4	HS	OUT	HOR/COMP SYNC PULSES TO VERT DEFL	1Vpp
7	Yin	IN	EXT LUMA SIGNAL	0.3Vpp
12	Cin	IN	EXT CHROMA SIGNAL	0.3Vpp
19	I2CINT	IN	OPEN COLLECTOR I2C INTERRUPT LINE	TTL
21	SC	IN	SANDCASTLE FROM TDA2595	2 LEVEL
22	F/S	OUT	FAST /SLOW (OPEN COLLECTOR)	hi Z
24	SCL		I2C CLOCK	TTL
25	SDA		I2C DATA	TTL
26	+PORT3	OUT	SELECTION PORT3	+12V(SRCE3)
27	+S VID	OUT	SELECTION S-VIDEO	+12V(SRCE2)
28	+RGsB	OUT	SELECTION RGsB	+12V
29	+VID	OUT	SELECTION VIDEO	+12V
30	-17V	IN	POWER SUPPLY	-17VDC
31	+17V	IN	POWER SUPPLY	+17VDC
32	+9V	IN	POWER SUPPLY	+9VDC
5/6/13/23			GROUND	0V

Connector J400: TO DECODER

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	+17V	OUT	POWER SUPPLY	+17VDC
2	SC_2579	OUT	SANDCASTLE PULSE FROM TDA2579	3 LEVEL
3	+VID	OUT	SELECTION VOLTAGE VIDEO	+12VDC
4	SDA		I2C	TTL
5	SCL		I2C	TTL
6/8	GND		GROUND	GND
9	VID/LUMA		VIDEO/LUMINANCE SIGNAL	
10	HUE	OUT	CONTROL VOLTAGE HUE	2...4VDC
11	CHROMA	OUT	CHROMA SIGNAL	150 OHMS
12	+S-VIDEO	OUT	SELECTION VOLTAGE S-VIDEO	+12V

Connector J401: TO DECODER

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	(R-Y)	OUT	(R-Y) SIGNAL TO LIDO/LIMO	75 OHMS
3	Y	OUT	Y SIGNAL TO LIDO/LIMO	75 OHMS
5	(B-Y)	OUT	(B-Y) SIGNAL TO LIDO/LIMO	75 OHMS
7	SYNC	OUT	SYNC TO LIDO/LIMO	75 OHMS
2,4,6	GND		GROUND	GND

Connector J402: FROM LIDO/LIMO

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	(R-Y)	IN	(R-Y) SIGNAL FROM LIDO/LIMO	75 OHMS
3	Y	IN	Y SIGNAL FROM LIDO/LIMO	75 OHMS
5	(B-Y)	IN	(B-Y) SIGNAL FROM LIDO/LIMO	75 OHMS
7	SYNC	OUT	SYNC FROM LIDO/LIMO	75 OHMS
2,4,6	GND		GROUND	GND

Connector J405: FROM DECODER

Pin No	Pin Name	In/Out	Description	Signal Spec.
2	(R-Y)_DEC	IN	(R-Y) SIGNAL FROM DECODER	75 OHMS
4	Y_DEC	IN	Y SIGNAL FROM DECODER	75 OHMS
6	(B-Y)_DEC	IN	(B-Y) SIGNAL FROM DECODER	75 OHMS
1,3,5,7	GND		GROUND	GND

Connector J741: TO LIDO/LIMO

Pin No	Pin Name	In/Out	Description	Signal Spec.
1	SDA		I2C	TTL
2	SCL		I2C	TTL
4	+17V	OUT	POWER SUPPLY	+17VDC(+/-5V)
5	-17V	OUT	POWER SUPPLY	-17VDC(+/-5V)
6	+9V	OUT	POWER SUPPLY	+9VDC(+/-5V)
8	CP	OUT	CLAMP PULSE	
3,7	GND		GROUND	GND

Connections

Connector J400 (to decoder)

pin 1	+17V		Output Power Supply +17V
pin 2	SC_2579		Output 3-level Sandcastle pulse from TDA2579
pin 3	+VID		Output Selection Voltage Video (+12V for Video)
pin 4	SDA	TTL	I ² C bus
pin 5	SCL	TTL	I ² C bus
pin 6/8	GND		GROUND
pin 9	VID/LUMA	TTL	Output Video/Luminance signal
pin 10	HUE	2..4V DC	Output control voltage Hue
pin 11	CHROMA	150Ω	Output CHROMA Signal
pin 12	+S VID		Output Selection Voltage S-Video (+12V for S-Video)

Connector J401 (to decoder)

pin 1	(R-Y)	75Ω	Output (R-Y) to Line Doubler
pin 2	GND		GROUND
pin 3	Y	75Ω	Output Y to Line Doubler
pin 4	GND		GROUND
pin 5	(B-Y)	75Ω	Output (B-Y) to Line Doubler
pin 6	GND		GROUND
pin 7	SYNC	75Ω	Output SYNC to Line Doubler

Connector J402 (from line doubler interface)

pin 1	(R-Y)	75Ω	Input (R-Y) from Line Doubler
pin 2	GND		GROUND
pin 3	Y	75Ω	Input Y from Line Doubler
pin 4	GND		GROUND
pin 5	(B-Y)	75Ω	Input (B-Y) from Line Doubler
pin 6	GND		GROUND
pin 7	SYNC	75Ω	Input SYNC from Line Doubler

Connector J405 (from decoder)

pin 1	GND		GROUND
pin 2	(R-Y)_DEC	75Ω	Input (R-Y) from Decoder
pin 3	GND		GROUND
pin 4	Y_DEC	75Ω	Input Y from Decoder
pin 5	GND		GROUND
pin 6	(B-Y)_DEC	75Ω	Input (B-Y) from Decoder
pin 7	GND		GROUND

Connector J741 (to line doubler interface)

pin 1	SDA		I ² C bus
pin 2	SCL		I ² C bus
pin 3	GND		GROUND
pin 4	+17V		Power Supply -17V (±0.5V)
pin 5	-17V		Power Supply +17V (±0.5V)
pin 6	+9V		Power Supply +9V (±0.5V)
pin 7	GND		GROUND
pin 8	CP		Clamp Pulse