

# ISC R1

LVEA IMC and ALS Rack R1 Layout

42 U

2 U	42		RF Patch Panel 10
	41		
2 U	40		RF Patch Panel 11
	39		
2 U	38		RF Patch Panel 12
	37		
1 U	36	D1000124	71 MHz Distribution Amplifier (Concentrator in C3)
1 U	35	D1000124	24.078 MHz Distribution Amplifier (Concentrator in C3)
	34		
2 U	33	D0900605	79.4 MHz FDD (ALS DIFF) (to Beckhoff in C2)
	32		
2 U	31	D0900605	79.4 MHz VCO (ALS DIFF) (to Beckhoff in C2)
	30		
	29		
1 U	28	D1002178	158.8 MHz Frequency Doubler
1 U	27	D1002476	79.4 / 158.8 MHz 2-Channel PF Discriminator (ALS COMM/DIFF)
1 U	26	D1201470	Demodulator RF Patch Panel (ALS COMM/DIFF)
	25		
2 U	24	D0900605	79.4 MHz VCO (ALS COMM) (to Beckhoff in C2)
	23		
2 U	22	D0900605	79.4 MHz FDD (ALS COMM) (to Beckhoff in C2)
	21		
	20		
2 U	19	D0900605	79.4 MHz VCO (PSL) (to Beckhoff in C2)
	18		
	17	D0900128	24.078/43.0 MHz Dual Delay Line (IMC/JAC)
1 U	16	D1000181	24.078/43.0 MHz 2-Channel Demodulator (IMC/JAC)
	15		
1 U	14	D0901781	Mode Cleaner Servo (IMC)
1 U	13	D1100691	LSC Demod Concentrator 1
1 U	12	D1100696	ASC Demod Concentrator 1
1 U	11	D1102079	LSC RFPD Interface
1 U	10	D1101865	WFS Interface
	9		
1 U	8	D1002559	ISC Whitening Chassis (ASC IMC WFS_A 24MHz)
1 U	7	D0902796	WFS I/Q Demodulator (ASC IMC WFS_A 24MHz)
1 U	6	D1100905	Demodulator Patch Panel
1 U	5	D0902796	WFS I/Q Demodulator (ASC IMC WFS_B 24MHz)
	4		
1 U	3	D1002559	ISC Whitening Chassis (ASC IMC WFS_B 24MHz)
1 U	2	D1100482	Differential to Single Ended Converter (IO PZTs)
1 U	1		Do not use

## Color Key

1 U		Installed
1 U		Ready for installation
1 U		Built but not fully tested
1 U		Still being built
1 U		Planned/Future JAC
1 U		TBD

17 April, 2017

LIGO-D1001460-v13