

Signal channel list

2012/6/29

JGW-T1201105

Osamu Miyakawa

Reference:

[JGW-T1100689](#)

Type Cについては大幅変更の可能性有り

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	DC whitening	Dewhitening	RT model	RT PC name	Ch. Phys. Location	Room No.	
VIS	MCI	IM		OSEM sensor, horizontal 1	K1:VIS-BS_IM_H1_SENS	ADC1	1	1			VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM sensor, horizontal 2	K1:VIS-BS_IM_H2_SENS	ADC1	2	1			VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM sensor, horizontal 3	K1:VIS-BS_IM_H3_SENS	ADC1	3	1			VMC	klio01	FMC-Area	9	
VIS	MCI			spare		ADC1	4				VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM sensor, vertical 1	K1:VIS-BS_IM_V1_SENS	ADC1	5	1			VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM sensor, vertical 2	K1:VIS-BS_IM_V2_SENS	ADC1	6	1			VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM sensor, vertical 3	K1:VIS-BS_IM_V3_SENS	ADC1	7	1			VMC	klio01	FMC-Area	9	
VIS	MCI			spare		ADC1	8				VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM actuator, horizontal 1	K1:VIS-BS_IM_H1_ACT	DAC1	1				1	VMC	klio01	FMC-Area	9
VIS	MCI	IM		OSEM actuator, horizontal 2	K1:VIS-BS_IM_H2_ACT	DAC1	2				1	VMC	klio01	FMC-Area	9
VIS	MCI	IM		OSEM actuator, horizontal 3	K1:VIS-BS_IM_H3_ACT	DAC1	3				1	VMC	klio01	FMC-Area	9
VIS	MCI			spare		DAC1	4				VMC	klio01	FMC-Area	9	
VIS	MCI	IM		OSEM actuator, vertical 1	K1:VIS-BS_IM_V1_ACT	DAC1	5				1	VMC	klio01	FMC-Area	9
VIS	MCI	IM		OSEM actuator, vertical 2	K1:VIS-BS_IM_V2_ACT	DAC1	6				1	VMC	klio01	FMC-Area	9
VIS	MCI	IM		OSEM actuator, vertical 3	K1:VIS-BS_IM_V3_ACT	DAC1	7				1	VMC	klio01	FMC-Area	9
VIS	MCI			spare		DAC1	8				VMC	klio01	FMC-Area	9	
VIS	MCI	TM		OSEM sensor, horizontal UL	K1:VIS-BS_TM_UL_SENS	ADC1	9	1			VMC	klio01	FMC-Area	9	
VIS	MCI	TM		OSEM sensor, horizontal UR	K2:VIS-BS_TM.UR_SENS	ADC1	10	1			VMC	klio01	FMC-Area	9	
VIS	MCI	TM		OSEM sensor, horizontal LR	K3:VIS-BS_TM.LR_SENS	ADC1	11	1			VMC	klio01	FMC-Area	9	
VIS	MCI	TM		OSEM sensor, horizontal LL	K4:VIS-BS_TM.LL_SENS	ADC1	12	1			VMC	klio01	FMC-Area	9	
VIS	MCI	TM		OSEM actuator, horizontal UL	K1:VIS-BS_TM_UL_ACT	DAC1	9				1	VMC	klio01	FMC-Area	9
VIS	MCI	TM		OSEM actuator, horizontal UR	K1:VIS-BS_TM.UR_ACT	DAC1	10				1	VMC	klio01	FMC-Area	9
VIS	MCI	TM		OSEM actuator, horizontal LR	K1:VIS-BS_TM.LR_ACT	DAC1	11				1	VMC	klio01	FMC-Area	9
VIS	MCI	TM		OSEM actuator, horizontal LL	K1:VIS-BS_TM.LL_ACT	DAC1	12				1	VMC	klio01	FMC-Area	9
VIS	MCI			spare		ADC1	13				VMC	klio01			
VIS	MCI			spare		ADC1	14				VMC	klio01			
VIS	MCI			spare		ADC1	13				VMC	klio01			
VIS	MCI			spare		ADC1	14				VMC	klio01			
VIS	MCI			spare		ADC1	15				VMC	klio01			
VIS	MCI			spare		ADC1	15				VMC	klio01			
VIS	MCI			spare		ADC1	16				VMC	klio01			
VIS	MCI	OL		Optical lever	K1:VIS-BS_OL_Q1	ADC1	17	1			VMC	klio01	FMC-Area	9	
VIS	MCI	OL		Optical lever	K1:VIS-BS_OL_Q2	ADC1	18	1			VMC	klio01	FMC-Area	9	
VIS	MCI	OL		Optical lever	K1:VIS-BS_OL_Q3	ADC1	19	1			VMC	klio01	FMC-Area	9	
VIS	MCI	OL		Optical lever	K1:VIS-BS_OL_Q4	ADC1	20	1			VMC	klio01	FMC-Area	9	
VIS	MCI	SS		Wire position shadow sensor X	K1:VIS-BS_WIRE_X	ADC1	21	1			VMC	klio01	FMC-Area	9	
VIS	MCI	SS		Wire position shadow sensor Y	K1:VIS-BS_WIRE_Y	ADC1	22	1			VMC	klio01	FMC-Area	9	
VIS	MCI			spare		ADC1	23				VMC	klio01			
VIS	MCI			spare		ADC1	24				VMC	klio01			
VIS	MCI			spare		ADC1	25				VMC	klio01			
VIS	MCI			spare		ADC1	26				VMC	klio01			
VIS	MCI			spare		ADC1	27				VMC	klio01			
VIS	MCI			spare		ADC1	28				VMC	klio01			
VIS	MCI			spare		ADC1	29				VMC	klio01			
VIS	MCI			spare		ADC1	30				VMC	klio01			
VIS	MCI			spare		ADC1	31				VMC	klio01			
VIS	MCI			spare		ADC1	32				VMC	klio01			
VIS	MCI			spare		ADC1	16				VMC	klio01			
VIS	MCO	IM		OSEM sensor, horizontal 1	K1:VIS-PR2_IM_H1_SENS	ADC2	1	1			VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM sensor, horizontal 2	K1:VIS-PR2_IM_H2_SENS	ADC2	2	1			VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM sensor, horizontal 3	K1:VIS-PR2_IM_H3_SENS	ADC2	3	1			VMC	klio01	FMC-Area	9	
VIS	MCO			spare		ADC2	4				VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM sensor, vertical 1	K1:VIS-PR2_IM_V1_SENS	ADC2	5	1			VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM sensor, vertical 2	K1:VIS-PR2_IM_V2_SENS	ADC2	6	1			VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM sensor, vertical 3	K1:VIS-PR2_IM_V3_SENS	ADC2	7	1			VMC	klio01	FMC-Area	9	
VIS	MCO			spare		ADC2	8				VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM actuator, horizontal 1	K1:VIS-PR2_IM_H1_ACT	DAC2	1				1	VMC	klio01	FMC-Area	9
VIS	MCO	IM		OSEM actuator, horizontal 2	K1:VIS-PR2_IM_H2_ACT	DAC2	2				1	VMC	klio01	FMC-Area	9
VIS	MCO	IM		OSEM actuator, horizontal 3	K1:VIS-PR2_IM_H3_ACT	DAC2	3				1	VMC	klio01	FMC-Area	9
VIS	MCO			spare		DAC2	4				VMC	klio01	FMC-Area	9	
VIS	MCO	IM		OSEM actuator, vertical 1	K1:VIS-PR2_IM_V1_ACT	DAC2	5				1	VMC	klio01	FMC-Area	9
VIS	MCO	IM		OSEM actuator, vertical 2	K1:VIS-PR2_IM_V2_ACT	DAC2	6				1	VMC	klio01	FMC-Area	9
VIS	MCO	IM		OSEM actuator, vertical 3	K1:VIS-PR2_IM_V3_ACT	DAC2	7				1	VMC	klio01	FMC-Area	9
VIS	MCO			spare		DAC2	8				VMC	klio01	FMC-Area	9	
VIS	MCO	TM		OSEM sensor, horizontal top	K1:VIS-PR2_TM_T_SENS	ADC2	9	1			VMC	klio01	FMC-Area	9	
VIS	MCO	TM		OSEM sensor, horizontal bottom	K2:VIS-PR2_TM.B_SENS	ADC2	10	1			VMC	klio01	FMC-Area	9	
VIS	MCO	TM		OSEM sensor, horizontal right	K3:VIS-PR2_TM.R_SENS	ADC2	11	1			VMC	klio01	FMC-Area	9	
VIS	MCO	TM		OSEM sensor, horizontal left	K4:VIS-PR2_TM.L_SENS	ADC2	12	1			VMC	klio01	FMC-Area	9	
VIS	MCO	TM		OSEM actuator, horizontal top	K1:VIS-PR2_TM_T_ACT	DAC2	9				1	VMC	klio01	FMC-Area	9
VIS	MCO	TM		OSEM actuator, horizontal bottom	K1:VIS-PR2_TM.B_ACT	DAC2	10				1	VMC	klio01	FMC-Area	9
VIS	MCO	TM		OSEM actuator, horizontal right	K1:VIS-PR2_TM.R_ACT	DAC2	11				1	VMC	klio01	FMC-Area	9
VIS	MCO	TM		OSEM actuator, horizontal left	K1:VIS-PR2_TM.L_ACT	DAC2	12				1	VMC	klio01	FMC-Area	9
VIS	MCO			spare		ADC2	13				VMC	klio01			
VIS	MCO			spare		ADC2	14				VMC	klio01			
VIS	MCO			spare		DAC2	13				VMC	klio01			
VIS	MCO			spare		DAC2	14				VMC	klio01			
VIS	MCO			spare		DAC2	15				VMC	klio01			
VIS	MCO			spare		ADC2	16				VMC	klio01			
VIS	MCO	OL		Optical lever	K1:VIS-PR2_OL_Q1	ADC2	17	1			VMC	klio01	FMC-Area	9	
VIS	MCO	OL		Optical lever	K1:VIS-PR2_OL_Q2	ADC2	18	1			VMC	klio01	FMC-Area	9	
VIS	MCO	OL		Optical lever	K1:VIS-PR2_OL_Q3	ADC2	19	1			VMC	klio01	FMC-Area	9	
VIS	MCO	OL		Optical lever	K1:VIS-PR2_OL_Q4	ADC2	20	1			VMC	klio01	FMC-Area	9	
VIS	MCO	SS		Wire position shadow sensor X	K1:VIS-PR2_WIRE_X	ADC2	21	1			VMC	klio01	FMC-Area	9	
VIS	MCO	SS		Wire position shadow sensor Y	K1:VIS-PR2_WIRE_Y	ADC2	22	1			VMC	klio01	FMC-Area	9	
VIS	MCO			spare		ADC2	23				VMC	klio01			
VIS	MCO			spare		ADC2	24				VMC	klio01			
VIS	MCO			spare		ADC2	25				VMC	klio01			

VIS	MCO		spare		ADC2	26			VMC	klio01			
VIS	MCO		spare		ADC2	27			VMC	klio01			
VIS	MCO		spare		ADC2	28			VMC	klio01			
VIS	MCO		spare		ADC2	29			VMC	klio01			
VIS	MCO		spare		ADC2	30			VMC	klio01			
VIS	MCO		spare		ADC2	31			VMC	klio01			
VIS	MCO		spare		ADC2	32			VMC	klio01			
VIS	MCO		spare		DAC2	16			VMC	klio01			

Whitening/dewhitening Total 20 12 20

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	DCC whitening	Dewhitening	RT model	RT PC name	Ch. Phys. Location	Room No.
VIS	MCO	IM	OSEM sensor, horizontal 1	K1:VIS-BS_IM_H1_SENS	ADC1	1	1				MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM sensor, horizontal 2	K1:VIS-BS_IM_H2_SENS	ADC1	2	1				MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM sensor, horizontal 3	K1:VIS-BS_IM_H3_SENS	ADC1	3	1				MCE	klio02	FMC-Area	9
VIS	MCO		spare		ADC1	4					MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM sensor, vertical 1	K1:VIS-BS_IM_V1_SENS	ADC1	5	1				MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM sensor, vertical 2	K1:VIS-BS_IM_V2_SENS	ADC1	6	1				MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM sensor, vertical 3	K1:VIS-BS_IM_V3_SENS	ADC1	7	1				MCE	klio02	FMC-Area	9
VIS	MCO		spare		ADC1	8					MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM actuator, horizontal 1	K1:VIS-BS_IM_H1_ACT	DAC1	1					1MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM actuator, horizontal 2	K1:VIS-BS_IM_H2_ACT	DAC1	2					1MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM actuator, horizontal 3	K1:VIS-BS_IM_H3_ACT	DAC1	3					1MCE	klio02	FMC-Area	9
VIS	MCO		spare		DAC1	4					MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM actuator, vertical 1	K1:VIS-BS_IM_V1_ACT	DAC1	5					1MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM actuator, vertical 2	K1:VIS-BS_IM_V2_ACT	DAC1	6					1MCE	klio02	FMC-Area	9
VIS	MCO	IM	OSEM actuator, vertical 3	K1:VIS-BS_IM_V3_ACT	DAC1	7					1MCE	klio02	FMC-Area	9
VIS	MCO		spare		DAC1	8					MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM sensor, horizontal UL	K1:VIS-BS_TM_UL_SENS	ADC1	9	1				MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM sensor, horizontal UR	K2:VIS-BS_TM.UR_SENS	ADC1	10	1				MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM sensor, horizontal LR	K3:VIS-BS_TM_LR_SENS	ADC1	11	1				MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM sensor, horizontal LL	K4:VIS-BS_TM_LL_SENS	ADC1	12	1				MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM actuator, horizontal UL	K1:VIS-BS_TM_UL_ACT	DAC1	9					1MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM actuator, horizontal UR	K1:VIS-BS_TM.UR_ACT	DAC1	10					1MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM actuator, horizontal LR	K1:VIS-BS_TM_LR_ACT	DAC1	11					1MCE	klio02	FMC-Area	9
VIS	MCO	TM	OSEM actuator, horizontal LL	K1:VIS-BS_TM_LL_ACT	DAC1	12					1MCE	klio02	FMC-Area	9
VIS	MCO		spare		DAC1	13					MCE	klio02		
VIS	MCO		spare		ADC1	14					MCE	klio02		
VIS	MCO		spare		ADC1	13					MCE	klio02		
VIS	MCO		spare		ADC1	14					MCE	klio02		
VIS	MCO		spare		ADC1	15					MCE	klio02		
VIS	MCO		spare		ADC1	15					MCE	klio02		
VIS	MCO		spare		ADC1	16					MCE	klio02		
VIS	MCO	OL	Optical lever	K1:VIS-BS_OL_Q1	ADC1	17	1				MCE	klio02	FMC-Area	9
VIS	MCO	OL	Optical lever	K1:VIS-BS_OL_Q2	ADC1	18	1				MCE	klio02	FMC-Area	9
VIS	MCO	OL	Optical lever	K1:VIS-BS_OL_Q3	ADC1	19	1				MCE	klio02	FMC-Area	9
VIS	MCO	OL	Optical lever	K1:VIS-BS_OL_Q4	ADC1	20	1				MCE	klio02	FMC-Area	9
VIS	MCO	SS	Wire position shadow sensor X	K1:VIS-BS_WIRE_X	ADC1	21	1				MCE	klio02	FMC-Area	9
VIS	MCO	SS	Wire position shadow sensor Y	K1:VIS-BS_WIRE_Y	ADC1	22	1				MCE	klio02	FMC-Area	9
VIS	MCO		spare		ADC1	23					MCE	klio02		
VIS	MCO		spare		ADC1	24					MCE	klio02		
VIS	MCO		spare		ADC1	25					MCE	klio02		
VIS	MCO		spare		ADC1	26					MCE	klio02		
VIS	MCO		spare		ADC1	27					MCE	klio02		
VIS	MCO		spare		ADC1	28					MCE	klio02		
VIS	MCO		spare		ADC1	29					MCE	klio02		
VIS	MCO		spare		ADC1	30					MCE	klio02		
VIS	MCO		spare		ADC1	31					MCE	klio02		
VIS	MCO		spare		ADC1	32					MCE	klio02		
VIS	MCO		spare		DAC1	16					MCE	klio02		

Whitening/dewhitening Total 10 6 10

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	DCC whitening	Dewhitening	RT model	RT PC name	Ch. Phys. Location	Room No.
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-BS_F0_ACC_H1_SENS	ADC1	1	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-BS_F0_ACC_H2_SENS	ADC1	2	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-BS_F0_ACC_H3_SENS	ADC1	3	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-BS_F0_ACC_V_SENS	ADC1	4	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-BS_F0_LVDT_H1_SENS	ADC1	5	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-BS_F0_LVDT_H2_SENS	ADC1	6	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-BS_F0_LVDT_H3_SENS	ADC1	7	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor, vertical	K1:VIS-BS_F0_LVDT_V_SENS	ADC1	8	1				VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-BS_F0_LVDT_H1_BIAS	DAC1	1					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-BS_F0_LVDT_H2_BIAS	DAC1	2					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-BS_F0_LVDT_H3_BIAS	DAC1	3					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-BS_F0_LVDT_V_BIAS	DAC1	4					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-BS_F0_LVDT_H1_DEMOD	DAC1	9					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-BS_F0_LVDT_H2_DEMOD	DAC1	10					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-BS_F0_LVDT_H3_DEMOD	DAC1	11					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-BS_F0_LVDT_V_DEMOD	DAC1	12					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-BS_F0_LVDT_H1_MOD	DAC1	5					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-BS_F0_LVDT_H2_MOD	DAC1	6					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-BS_F0_LVDT_H3_MOD	DAC1	7					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-BS_F0_LVDT_V_MOD	DAC1	8					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-BS_F0_VC_H1_ACT	DAC1	9					1VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-BS_F0_VC_H2_ACT	DAC1	10					1VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-BS_F0_VC_H3_ACT	DAC1	11					1VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-BS_F0_VC_V_ACT	DAC1	12					1VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-BS_F0_VC_H1_MON	DAC1	13					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-BS_F0_VC_H2_MON	DAC1	14					VBS	klio02	B-Area	4
VIS	BS	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-BS_F0_VC_H3_MON	DAC1	15					VBS	klio02	B-Area	4

VIS	BS	Pre-Isolator	Voice coil monitor vertical	K1:VIS-BS_F0_VC_V_MON	ADC1	16			VBS	k1ifo2	B-Area	4
VIS	BS		spare		DAC1	13			VBS	k1ifo2		
VIS	BS		spare		DAC1	14			VBS	k1ifo2		
VIS	BS		spare		DAC1	15			VBS	k1ifo2		
VIS	BS		spare		DAC1	16			VBS	k1ifo2		
VIS	PR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-PR2_F0_ACC_H1_SENS	ADC1	17	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-PR2_F0_ACC_H2_SENS	ADC1	18	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-PR2_F0_ACC_H3_SENS	ADC1	19	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-PR2_F0_ACC_V_SENS	ADC1	20	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-PR2_F0_LVDT_H1_SENS	ADC1	21	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-PR2_F0_LVDT_H2_SENS	ADC1	22	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-PR2_F0_LVDT_H3_SENS	ADC1	23	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor, vertical	K1:VIS-PR2_F0_LVDT_V_SENS	ADC1	24	1		VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-PR2_F0_LVDT_H1_BIAS	DAC2	1			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-PR2_F0_LVDT_H2_BIAS	DAC2	2			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-PR2_F0_LVDT_H3_BIAS	DAC2	3			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-PR2_F0_LVDT_V_BIAS	DAC2	4			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-PR2_F0_LVDT_H1_DEMOD	ADC1	25			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-PR2_F0_LVDT_H2_DEMOD	ADC1	26			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-PR2_F0_LVDT_H3_DEMOD	ADC1	27			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-PR2_F0_LVDT_V_DEMOD	ADC1	28			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-PR2_F0_LVDT_H1_MOD	DAC2	5			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-PR2_F0_LVDT_H2_MOD	DAC2	6			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-PR2_F0_LVDT_H3_MOD	DAC2	7			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-PR2_F0_LVDT_V_MOD	DAC2	8			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-PR2_F0_VC_H1_ACT	DAC2	9			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-PR2_F0_VC_H2_ACT	DAC2	10			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-PR2_F0_VC_H3_ACT	DAC2	11			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-PR2_F0_VC_V_ACT	DAC2	12			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-PR2_F0_VC_H1_MON	ADC1	29			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-PR2_F0_VC_H2_MON	ADC1	30			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-PR2_F0_VC_H3_MON	ADC1	31			VBS	k1ifo2	B-Area	4
VIS	PR2	Pre-Isolator	Voice coil monitor vertical	K1:VIS-PR2_F0_VC_V_MON	ADC1	32			VBS	k1ifo2	B-Area	4
VIS	PR2		spare		DAC1	13			VBS	k1ifo2		
VIS	PR2		spare		DAC1	14			VBS	k1ifo2		
VIS	PR2		spare		DAC1	15			VBS	k1ifo2		
VIS	PR2		spare		DAC1	16			VBS	k1ifo2		
VIS	BS	IM	OSEM sensor, horizontal 1	K1:VIS-BS_IM_H1_SENS	ADC2	1	1		VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM sensor, horizontal 2	K1:VIS-BS_IM_H2_SENS	ADC2	2	1		VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM sensor, horizontal 3	K1:VIS-BS_IM_H3_SENS	ADC2	3	1		VBS	k1ifo2	B-Area	4
VIS	BS		spare		ADC2	4			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM sensor, vertical 1	K1:VIS-BS_IM_V1_SENS	ADC2	5	1		VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM sensor, vertical 2	K1:VIS-BS_IM_V2_SENS	ADC2	6	1		VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM sensor, vertical 3	K1:VIS-BS_IM_V3_SENS	ADC2	7	1		VBS	k1ifo2	B-Area	4
VIS	BS		spare		ADC2	8			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM actuator, horizontal 1	K1:VIS-BS_IM_H1_ACT	DAC3	1			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM actuator, horizontal 2	K1:VIS-BS_IM_H2_ACT	DAC3	2			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM actuator, horizontal 3	K1:VIS-BS_IM_H3_ACT	DAC3	3			VBS	k1ifo2	B-Area	4
VIS	BS		spare		DAC3	4			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM actuator, vertical 1	K1:VIS-BS_IM_V1_ACT	DAC3	5			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM actuator, vertical 2	K1:VIS-BS_IM_V2_ACT	DAC3	6			VBS	k1ifo2	B-Area	4
VIS	BS	IM	OSEM actuator, vertical 3	K1:VIS-BS_IM_V3_ACT	DAC3	7			VBS	k1ifo2	B-Area	4
VIS	BS		spare		DAC3	8			VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM sensor, horizontal UL	K1:VIS-BS_TM_UL_SENS	ADC2	9	1		VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM sensor, horizontal UR	K2:VIS-BS_TM.UR_SENS	ADC2	10	1		VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM sensor, horizontal LR	K3:VIS-BS_TM_LR_SENS	ADC2	11	1		VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM sensor, horizontal LL	K4:VIS-BS_TM_LL_SENS	ADC2	12	1		VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM actuator, horizontal UL	K1:VIS-BS_TM_UL_ACT	DAC3	9			VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM actuator, horizontal UR	K1:VIS-BS_TM.UR.ACT	DAC3	10			VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM actuator, horizontal LR	K1:VIS-BS_TM_LR_ACT	DAC3	11			VBS	k1ifo2	B-Area	4
VIS	BS	TM	OSEM actuator, horizontal LL	K1:VIS-BS_TM_LL_ACT	DAC3	12			VBS	k1ifo2	B-Area	4
VIS	BS	BF	LVDT sensor, vertical	K1:VIS-BS_BF_LVDT_V_SENS	ADC2	13	1		VBS	k1ifo2	B-Area	4
VIS	BS	BF	LVDT signal for demodulation, vertical	K1:VIS-BS_BF_LVDT_V_DEMOD	ADC2	14			VBS	k1ifo2	B-Area	4
VIS	BS	BF	LVDT sensor biasl, vertical	K1:VIS-BS_BF_LVDT_V_BIAS	DAC3	13			VBS	k1ifo2	B-Area	4
VIS	BS	BF	LVDT excitation signal, vertical	K1:VIS-BS_BF_LVDT_V.MOD	DAC3	14			VBS	k1ifo2	B-Area	4
VIS	BS	BF	Voice coil actuator, vertical	K1:VIS-BS_BF_VC_V_ACT	DAC3	15			VBS	k1ifo2	B-Area	4
VIS	BS	BF	Voice coil monitor vertical	K1:VIS-BS_BF_VC_V_MON	ADC2	15			VBS	k1ifo2	B-Area	4
VIS	BS		spare		ADC2	16			VBS	k1ifo2		
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q1	ADC2	17	1		VBS	k1ifo2	B-Area	4
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q2	ADC2	18	1		VBS	k1ifo2	B-Area	4
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q3	ADC2	19	1		VBS	k1ifo2	B-Area	4
VIS	BS	OL	Optical lever	K1:VIS-BS_OL_Q4	ADC2	20	1		VBS	k1ifo2	B-Area	4
VIS	BS	SS	Wire position shadow sensor X	K1:VIS-BS_WIRE_X	ADC2	21	1		VBS	k1ifo2	B-Area	4
VIS	BS	SS	Wire position shadow sensor Y	K1:VIS-BS_WIRE_Y	ADC2	22	1		VBS	k1ifo2	B-Area	4
VIS	BS		spare		ADC2	23			VBS	k1ifo2		
VIS	BS		spare		ADC2	24			VBS	k1ifo2		
VIS	BS		spare		ADC2	25			VBS	k1ifo2		
VIS	BS		spare		ADC2	26			VBS	k1ifo2		
VIS	BS		spare		ADC2	27			VBS	k1ifo2		
VIS	BS		spare		ADC2	28			VBS	k1ifo2		
VIS	BS		spare		ADC2	29			VBS	k1ifo2		
VIS	BS		spare		ADC2	30			VBS	k1ifo2		
VIS	BS		spare		ADC2	31			VBS	k1ifo2		
VIS	BS		spare		ADC2	32			VBS	k1ifo2		
VIS	BS		spare		DAC3	16			VBS	k1ifo2		
VIS	PR2	IM	OSEM sensor, horizontal 1	K1:VIS-PR2_IM_H1_SENS	ADC3	1	1		VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM sensor, horizontal 2	K1:VIS-PR2_IM_H2_SENS	ADC3	2	1		VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM sensor, horizontal 3	K1:VIS-PR2_IM_H3_SENS	ADC3	3	1		VBS	k1ifo2	B-Area	4
VIS	PR2		spare		ADC3	4			VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM sensor, vertical 1	K1:VIS-PR2_IM_V1_SENS	ADC3	5	1		VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM sensor, vertical 2	K1:VIS-PR2_IM_V2_SENS	ADC3	6	1		VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM sensor, vertical 3	K1:VIS-PR2_IM_V3_SENS	ADC3	7	1		VBS	k1ifo2	B-Area	4
VIS	PR2		spare		ADC3	8			VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM actuator, horizontal 1	K1:VIS-PR2_IM_H1_ACT	DAC4	1			VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM actuator, horizontal 2	K1:VIS-PR2_IM_H2_ACT	DAC4	2			VBS	k1ifo2	B-Area	4

VIS	PR2	IM	OSEM actuator, horizontal 3	K1:VIS-PR2_IM_H3_ACT	DAC4	3		1	VBS	k1ifo2	B-Area	4
VIS	PR2		spare		DAC4	4			VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM actuator, vertical 1	K1:VIS-PR2_IM_V1_ACT	DAC4	5		1	VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM actuator, vertical 2	K1:VIS-PR2_IM_V2_ACT	DAC4	6		1	VBS	k1ifo2	B-Area	4
VIS	PR2	IM	OSEM actuator, vertical 3	K1:VIS-PR2_IM_V3_ACT	DAC4	7		1	VBS	k1ifo2	B-Area	4
VIS	PR2		spare		DAC4	8			VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM sensor, horizontal top	K1:VIS-PR2_TM_T_SENS	ADC3	9	1		VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM sensor, horizontal bottom	K2:VIS-PR2_TM_B_SENS	ADC3	10	1		VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM sensor, horizontal right	K3:VIS-PR2_TM_R_SENS	ADC3	11	1		VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM sensor, horizontal left	K4:VIS-PR2_TM_L_SENS	ADC3	12	1		VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM actuator, horizontal top	K1:VIS-PR2_TM_T_ACT	DAC4	9		1	VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM actuator, horizontal bottom	K1:VIS-PR2_TM_B_ACT	DAC4	10		1	VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM actuator, horizontal right	K1:VIS-PR2_TM_R_ACT	DAC4	11		1	VBS	k1ifo2	B-Area	4
VIS	PR2	TM	OSEM actuator, horizontal left	K1:VIS-PR2_TM_L_ACT	DAC4	12		1	VBS	k1ifo2	B-Area	4
VIS	PR2	BF	LVDT sensor, vertical	K1:VIS-PR2_BF_LVDT_V_SENS	ADC3	13	1		VBS	k1ifo2	B-Area	4
VIS	PR2	BF	LVDT signal for demodulation, vertical	K1:VIS-PR2_BF_LVDT_V_DEMOD	ADC3	14			VBS	k1ifo2	B-Area	4
VIS	PR2	BF	LVDT sensor bias, vertical	K1:VIS-PR2_BF_LVDT_V_BIAS	DAC4	13			VBS	k1ifo2	B-Area	4
VIS	PR2	BF	LVDT excitation signal, vertical	K1:VIS-PR2_BF_LVDT_V_MOD	DAC4	14			VBS	k1ifo2	B-Area	4
VIS	PR2	BF	Voice coil actuator, vertical	K1:VIS-PR2_BF_VC_V_ACT	DAC4	15		1	VBS	k1ifo2	B-Area	4
VIS	PR2	BF	Voice coil monitor vertical	K1:VIS-PR2_BF_VC_V_MON	ADC2	15			VBS	k1ifo2	B-Area	4
VIS	PR2		spare		ADC2	16			VBS	k1ifo2		
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q1	ADC2	17		1	VBS	k1ifo2	B-Area	4
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q2	ADC2	18	1		VBS	k1ifo2	B-Area	4
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q3	ADC2	19	1		VBS	k1ifo2	B-Area	4
VIS	PR2	OL	Optical lever	K1:VIS-PR2_OL_Q4	ADC2	20	1		VBS	k1ifo2	B-Area	4
VIS	PR2	SS	Wire position shadow sensor X	K1:VIS-PR2_WIRE_X	ADC2	21	1		VBS	k1ifo2	B-Area	4
VIS	PR2	SS	Wire position shadow sensor Y	K1:VIS-PR2_WIRE_Y	ADC2	22	1		VBS	k1ifo2	B-Area	4
VIS	PR2		spare		ADC2	23			VBS	k1ifo2		
VIS	PR2		spare		ADC2	24			VBS	k1ifo2		
VIS	PR2		spare		ADC2	25			VBS	k1ifo2		
VIS	PR2		spare		ADC2	26			VBS	k1ifo2		
VIS	PR2		spare		ADC2	27			VBS	k1ifo2		
VIS	PR2		spare		ADC2	28			VBS	k1ifo2		
VIS	PR2		spare		ADC2	29			VBS	k1ifo2		
VIS	PR2		spare		ADC2	30			VBS	k1ifo2		
VIS	PR2		spare		ADC2	31			VBS	k1ifo2		
VIS	PR2		spare		ADC2	32			VBS	k1ifo2		
VIS	PR2		spare		DAC4	16			VBS	k1ifo2		

Whitening/dewhitening Total 38 12 30

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	GCC whitening	Dewhitening	RT model	RT PC name	Ch. Phys. Location	Room No.
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-BS_F0_ACC_H1_SENS	ADC1	1	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-BS_F0_ACC_H2_SENS	ADC1	2	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-BS_F0_ACC_H3_SENS	ADC1	3	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-BS_F0_ACC_V_SENS	ADC1	4	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-BS_F0_LVDT_H1_SENS	ADC1	5	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-BS_F0_LVDT_H2_SENS	ADC1	6	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-BS_F0_LVDT_H3_SENS	ADC1	7	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor, vertical	K1:VIS-BS_F0_LVDT_V_SENS	ADC1	8	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-BS_F0_LVDT_H1_BIAS	DAC1	1					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-BS_F0_LVDT_H2_BIAS	DAC1	2					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-BS_F0_LVDT_H3_BIAS	DAC1	3					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-BS_F0_LVDT_V_BIAS	DAC1	4					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-BS_F0_LVDT_H1_DEMOD	ADC1	9					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-BS_F0_LVDT_H2_DEMOD	ADC1	10					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-BS_F0_LVDT_H3_DEMOD	ADC1	11					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-BS_F0_LVDT_V_DEMOD	ADC1	12					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-BS_F0_LVDT_H1_MOD	DAC1	5					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-BS_F0_LVDT_H2_MOD	DAC1	6					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-BS_F0_LVDT_H3_MOD	DAC1	7					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-BS_F0_LVDT_V_MOD	DAC1	8					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-BS_F0_VC_H1_ACT	DAC1	9		1			VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-BS_F0_VC_H2_ACT	DAC1	10		1			VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-BS_F0_VC_H3_ACT	DAC1	11		1			VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-BS_F0_VC_V_ACT	DAC1	12		1			VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-BS_F0_VC_H1_MON	ADC1	13					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-BS_F0_VC_H2_MON	ADC1	14					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-BS_F0_VC_H3_MON	ADC1	15					VSR2	k1ifo3	S-Area	5
VIS	SR2	Pre-Isolator	Voice coil monitor vertical	K1:VIS-BS_F0_VC_V_MON	ADC1	16					VSR2	k1ifo3	S-Area	5
VIS	SR2		spare		ADC1	17					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	18					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	19					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	20					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	21					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	22					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	23					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	24					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	25					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	26					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	27					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	28					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	29					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	30					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	31					VSR2	k1ifo3		
VIS	SR2		spare		ADC1	32					VSR2	k1ifo3		
VIS	SR2		spare		DAC1	13					VSR2	k1ifo3		
VIS	SR2		spare		DAC1	14					VSR2	k1ifo3		
VIS	SR2		spare		DAC1	15					VSR2	k1ifo3		
VIS	SR2		spare		DAC1	16					VSR2	k1ifo3		
VIS	SR2	IM	OSEM sensor, horizontal 1	K1:VIS-BS_IM_H1_SENS	ADC2	1	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	IM	OSEM sensor, horizontal 2	K1:VIS-BS_IM_H2_SENS	ADC2	2	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	IM	OSEM sensor, horizontal 3	K1:VIS-BS_IM_H3_SENS	ADC2	3	1				VSR2	k1ifo3	S-Area	5
VIS	SR2	IM	spare		ADC2	4					VSR2	k1ifo3	S-Area	5
VIS	SR2	IM	OSEM sensor, vertical 1	K1:VIS-BS_IM_V1_SENS	ADC2	5	1				VSR2	k1ifo3	S-Area	5

VIS	SR2	IM	OSEM sensor, vertical 2	K1:VIS-BS_IM_V2_SENS	ADC2	6	1		VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM sensor, vertical 3	K1:VIS-BS_IM_V3_SENS	ADC2	7	1		VSR2	k1ife3	S-Area	5
VIS	SR2		spare		ADC2	8			VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM actuator, horizontal 1	K1:VIS-BS_IM_H1_ACT	DAC2	1			1VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM actuator, horizontal 2	K1:VIS-BS_IM_H2_ACT	DAC2	2			1VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM actuator, horizontal 3	K1:VIS-BS_IM_H3_ACT	DAC2	3			1VSR2	k1ife3	S-Area	5
VIS	SR2		spare		DAC2	4			VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM actuator, vertical 1	K1:VIS-BS_IM_V1_ACT	DAC2	5			1VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM actuator, vertical 2	K1:VIS-BS_IM_V2_ACT	DAC2	6			1VSR2	k1ife3	S-Area	5
VIS	SR2	IM	OSEM actuator, vertical 3	K1:VIS-BS_IM_V3_ACT	DAC2	7			1VSR2	k1ife3	S-Area	5
VIS	SR2		spare		DAC2	8			VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM sensor, horizontal UL	K1:VIS-BS_TM_UL_SENS	ADC2	9	1		VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM sensor, horizontal UR	K2:VIS-BS_TM.UR_SENS	ADC2	10	1		VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM sensor, horizontal LR	K3:VIS-BS_TM.LR_SENS	ADC2	11	1		VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM sensor, horizontal LL	K4:VIS-BS_TM_LL_SENS	ADC2	12	1		VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM actuator, horizontal UL	K1:VIS-BS_TM_UL_ACT	DAC2	9			1VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM actuator, horizontal UR	K1:VIS-BS_TM.UR_ACT	DAC2	10			1VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM actuator, horizontal LR	K1:VIS-BS_TM.LR_ACT	DAC2	11			1VSR2	k1ife3	S-Area	5
VIS	SR2	TM	OSEM actuator, horizontal LL	K1:VIS-BS_TM_LL_ACT	DAC2	12			1VSR2	k1ife3	S-Area	5
VIS	SR2	BF	LVDT sensor, vertical	K1:VIS-BS_BF_LVDT_V_SENS	ADC2	13	1		VSR2	k1ife3	S-Area	5
VIS	SR2	BF	LVDT signal for demodulation, vertical	K1:VIS-BS_BF_LVDT_V_DEMOD	ADC2	14			VSR2	k1ife3	S-Area	5
VIS	SR2	BF	LVDT sensor biasl, vertical	K1:VIS-BS_BF_LVDT_V_BIAS	DAC2	13			VSR2	k1ife3	S-Area	5
VIS	SR2	BF	LVDT excitation signal, vertical	K1:VIS-BS_BF_LVDT_V.MOD	DAC2	14			VSR2	k1ife3	S-Area	5
VIS	SR2	BF	Voice coil actuator, vertical	K1:VIS-BS_BF_VC_V_ACT	DAC2	15			1VSR2	k1ife3	S-Area	5
VIS	SR2	BF	Voice coil monitor vertical	K1:VIS-BS_BF_VC.V.MON	ADC2	15			VSR2	k1ife3	S-Area	5
VIS	SR2		spare		ADC2	16			VSR2	k1ife3	S-Area	5
VIS	SR2	OL	Optical lever	K1:VIS-BS_OL_Q1	ADC2	17		1	VSR2	k1ife3	S-Area	5
VIS	SR2	OL	Optical lever	K1:VIS-BS_OL_Q2	ADC2	18		1	VSR2	k1ife3	S-Area	5
VIS	SR2	OL	Optical lever	K1:VIS-BS_OL_Q3	ADC2	19		1	VSR2	k1ife3	S-Area	5
VIS	SR2	OL	Optical lever	K1:VIS-BS_OL_Q4	ADC2	20		1	VSR2	k1ife3	S-Area	5
VIS	SR2	SS	Wire position shadow sensor X	K1:VIS-BS_WIRE_X	ADC2	21		1	VSR2	k1ife3	S-Area	5
VIS	SR2	SS	Wire position shadow sensor Y	K1:VIS-BS_WIRE_Y	ADC2	22		1	VSR2	k1ife3	S-Area	5
VIS	SR2		spare		ADC2	23			VSR2	k1ife3		
VIS	SR2		spare		ADC2	24			VSR2	k1ife3		
VIS	SR2		spare		ADC2	25			VSR2	k1ife3		
VIS	SR2		spare		ADC2	26			VSR2	k1ife3		
VIS	SR2		spare		ADC2	27			VSR2	k1ife3		
VIS	SR2		spare		ADC2	28			VSR2	k1ife3		
VIS	SR2		spare		ADC2	29			VSR2	k1ife3		
VIS	SR2		spare		ADC2	30			VSR2	k1ife3		
VIS	SR2		spare		ADC2	31			VSR2	k1ife3		
VIS	SR2		spare		ADC2	32			VSR2	k1ife3		
VIS	SR2		spare		ADC2	16			VSR2	k1ife3		

Whitening/dewhitening Total 19 6 15

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	DE whitening	Dewhitening	RT model	RT PC name	Channel physical location	Room No.
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-IX_F0_ACC_H1_SENS	ADC1	1	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-IX_F0_ACC_H2_SENS	ADC1	2	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-IX_F0_ACC_H3_SENS	ADC1	3	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-IX_F0_ACC_V_SENS	ADC1	4	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-IX_F0_LVDT_H1_SENS	ADC1	5	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-IX_F0_LVDT_H2_SENS	ADC1	6	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-IX_F0_LVDT_H3_SENS	ADC1	7	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor, vertical	K1:VIS-IX_F0_LVDT_V_SENS	ADC1	8	1				VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-IX_F0_LVDT_H1_BIAS	DAC1	1					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-IX_F0_LVDT_H2_BIAS	DAC1	2					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-IX_F0_LVDT_H3_BIAS	DAC1	3					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-IX_F0_LVDT_V_BIAS	DAC1	4					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-IX_F0_LVDT_H1_DEMOD	ADC1	9					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-IX_F0_LVDT_H2_DEMOD	ADC1	10					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-IX_F0_LVDT_H3_DEMOD	ADC1	11					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-IX_F0_LVDT_V_DEMOD	ADC1	12					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-IX_F0_LVDT_H1_MOD	DAC1	5					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-IX_F0_LVDT_H2_MOD	DAC1	6					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-IX_F0_LVDT_H3_MOD	DAC1	7					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-IX_F0_LVDT_V_MOD	DAC1	8					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-IX_F0_VC_H1_ACT	DAC1	9					1VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-IX_F0_VC_H2_ACT	DAC1	10					1VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-IX_F0_VC_H3_ACT	DAC1	11					1VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-IX_F0_VC_V_ACT	DAC1	12					1VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-IX_F0_VC_H1_MON	ADC1	13					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-IX_F0_VC_H2_MON	ADC1	14					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-IX_F0_VC_H3_MON	ADC1	15					VIX	k1ix1	XFrontVI	40
VIS	IX	Pre-Isolator	Voice coil monitor vertical	K1:VIS-IX_F0_VC_V_MON	ADC1	16					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS1	LVDT sensor, vertical	K1:VIS-IX_F1_LVDT_V_SENS	ADC1	17	1				VIX	k1ix1	XFrontVI	40
VIS	IX	GAS2	LVDT sensor, vertical	K1:VIS-IX_F2_LVDT_V_SENS	ADC1	18	1				VIX	k1ix1	XFrontVI	40
VIS	IX	GAS3	LVDT sensor, vertical	K1:VIS-IX_F3_LVDT_V_SENS	ADC1	19	1				VIX	k1ix1	XFrontVI	40
VIS	IX	BF	LVDT sensor, vertical	K1:VIS-IX_BF_LVDT_V_SENS	ADC1	20	1				VIX	k1ix1	XFrontVI	40
VIS	IX	GAS1	LVDT sensor biasl, vertical	K1:VIS-IX_F1_LVDT_V_BIAS	DAC1	13					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS2	LVDT sensor biasl, vertical	K1:VIS-IX_F2_LVDT_V_BIAS	DAC1	14					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS3	LVDT sensor biasl, vertical	K1:VIS-IX_F3_LVDT_V_BIAS	DAC1	15					VIX	k1ix1	XFrontVI	40
VIS	IX	BF	LVDT sensor biasl, vertical	K1:VIS-IX_BF_LVDT_V_BIAS	DAC1	16					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS1	LVDT signal for demodulation, vertical	K1:VIS-IX_F1_LVDT_V_DEMOD	ADC1	21					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS2	LVDT signal for demodulation, vertical	K1:VIS-IX_F2_LVDT_V_DEMOD	ADC1	22					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS3	LVDT signal for demodulation, vertical	K1:VIS-IX_F3_LVDT_V_DEMOD	ADC1	23					VIX	k1ix1	XFrontVI	40
VIS	IX	BF	LVDT signal for demodulation, vertical	K1:VIS-IX_BF_LVDT_V_DEMOD	ADC1	24					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS1	LVDT excitation signal, vertical	K1:VIS-IX_F1_LVDT_V_MOD	DAC2	1					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS2	LVDT excitation signal, vertical	K1:VIS-IX_F2_LVDT_V_MOD	DAC2	2					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS3	LVDT excitation signal, vertical	K1:VIS-IX_F3_LVDT_V_MOD	DAC2	3					VIX	k1ix1	XFrontVI	40
VIS	IX	BF	LVDT excitation signal, vertical	K1:VIS-IX_BF_LVDT_V_MOD	DAC2	4					VIX	k1ix1	XFrontVI	40
VIS	IX	GAS1	Voice coil actuator, vertical	K1:VIS-IX_F1_VC_V_ACT	DAC2	5					1VIX	k1ix1	XFrontVI	40
VIS	IX	GAS2	Voice coil actuator, vertical	K1:VIS-IX_F2_VC_V_ACT	DAC2	6					1VIX	k1ix1	XFrontVI	40
VIS	IX	GAS3	Voice coil actuator, vertical	K1:VIS-IX_F3_VC_V_ACT	DAC2	7					1VIX	k1ix1	XFrontVI	40
VIS	IX	BF	Voice coil actuator, vertical	K1:VIS-IX_BF_VC_V_ACT	DAC2	8					1VIX	k1ix1	XFrontVI	40

VIS	IX	GAS1	Voice coil monitor vertical	K1:VIS-IX_F1.VC_V_MON	ADC1	25			VIX	klix1	XFrontVI	40
VIS	IX	GAS2	Voice coil monitor vertical	K1:VIS-IX_F2.VC_V_MON	ADC1	26			VIX	klix1	XFrontVI	40
VIS	IX	GAS3	Voice coil monitor vertical	K1:VIS-IX_F3.VC_V_MON	ADC1	27			VIX	klix1	XFrontVI	40
VIS	IX	BF	Voice coil monitor vertical	K1:VIS-IX_BF.VC_V_MON	ADC1	28			VIX	klix1	XFrontVI	40
VIS	IX		spare		ADC1	29			VIX	klix1		
VIS	IX		spare		ADC1	30			VIX	klix1		
VIS	IX		spare		ADC1	31			VIX	klix1		
VIS	IX		spare		ADC1	32			VIX	klix1		
VIS	IX		spare		DAC2	9			VIX	klix1		
VIS	IX		spare		DAC2	10			VIX	klix1		
VIS	IX		spare		DAC2	11			VIX	klix1		
VIS	IX		spare		DAC2	12			VIX	klix1		
VIS	IX		spare		DAC2	13			VIX	klix1		
VIS	IX		spare		DAC2	14			VIX	klix1		
VIS	IX		spare		DAC2	15			VIX	klix1		
VIS	IX		spare		DAC2	16			VIX	klix1		
VIS	IX	IM	OSEM sensor, horizontal 1	K1:VIS-IX_IM_H1_SENS	ADC2	1	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM sensor, horizontal 2	K1:VIS-IX_IM_H2_SENS	ADC2	2	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM sensor, horizontal 3	K1:VIS-IX_IM_H3_SENS	ADC2	3	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX		spare		ADC2	4			VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM sensor, vertical 1	K1:VIS-IX_IM_V1_SENS	ADC2	5	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM sensor, vertical 2	K1:VIS-IX_IM_V2_SENS	ADC2	6	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM sensor, vertical 3	K1:VIS-IX_IM_V3_SENS	ADC2	7	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX		spare		ADC2	8			VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM actuator, horizontal 1	K1:VIS-IX_IM_H1_ACT	DAC3	1			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM actuator, horizontal 2	K1:VIS-IX_IM_H2_ACT	DAC3	2			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM actuator, horizontal 3	K1:VIS-IX_IM_H3_ACT	DAC3	3			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX		spare		DAC3	4			VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM actuator, vertical 1	K1:VIS-IX_IM_V1_ACT	DAC3	5			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM actuator, vertical 2	K1:VIS-IX_IM_V2_ACT	DAC3	6			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	IM	OSEM actuator, vertical 3	K1:VIS-IX_IM_V3_ACT	DAC3	7			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX		spare		DAC3	8			VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM sensor, horizontal top	K1:VIS-IX_TM_T_SENS	ADC2	9	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM sensor, horizontal bottom	K2:VIS-IX_TM_B_SENS	ADC2	10	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM sensor, horizontal right	K3:VIS-IX_TM_R_SENS	ADC2	11	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM sensor, horizontal left	K4:VIS-IX_TM_L_SENS	ADC2	12	1		VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM actuator, horizontal top	K1:VIS-IX_TM_T_ACT	DAC3	9			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM actuator, horizontal bottom	K1:VIS-IX_TM_B_ACT	DAC3	10			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM actuator, horizontal right	K1:VIS-IX_TM_R_ACT	DAC3	11			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX	TM	OSEM actuator, horizontal left	K1:VIS-IX_TM_L_ACT	DAC3	12			1VIX	klix1	XFrontVI(XFrontCryoBack)	40(22)
VIS	IX		spare		ADC2	13			VIX	klix1		
VIS	IX		spare		ADC2	14			VIX	klix1		
VIS	IX		spare		ADC2	15			VIX	klix1		
VIS	IX		spare		ADC2	16			VIX	klix1		
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q1	ADC2	17	1		VIX	klix1	XFrontCryoBack	22
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q2	ADC2	18	1		VIX	klix1	XFrontCryoBack	22
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q3	ADC2	19	1		VIX	klix1	XFrontCryoBack	22
VIS	IX	OL	Optical lever	K1:VIS-IX_OL_Q4	ADC2	20	1		VIX	klix1	XFrontCryoBack	22
VIS	IX	SS	Wire position shadow sensor X	K1:VIS-IX_WIRE_X	ADC2	21	1		VIX	klix1	XFrontCryoBack	22
VIS	IX	SS	Wire position shadow sensor Y	K1:VIS-IX_WIRE_Y	ADC2	22	1		VIX	klix1	XFrontCryoBack	22
VIS	IX		spare		ADC2	23			VIX	klix1		
VIS	IX		spare		ADC2	24			VIX	klix1		
VIS	IX		spare		ADC2	25			VIX	klix1		
VIS	IX		spare		ADC2	26			VIX	klix1		
VIS	IX		spare		ADC2	27			VIX	klix1		
VIS	IX		spare		ADC2	28			VIX	klix1		
VIS	IX		spare		ADC2	29			VIX	klix1		
VIS	IX		spare		ADC2	30			VIX	klix1		
VIS	IX		spare		ADC2	31			VIX	klix1		
VIS	IX		spare		ADC2	32			VIX	klix1		
VIS	IX		spare		DAC3	13			VIX	klix1		
VIS	IX		spare		DAC3	14			VIX	klix1		
VIS	IX		spare		DAC3	15			VIX	klix1		
VIS	IX		spare		DAC3	16			VIX	klix1		

Whitening/dewhitening Total 22 6 18

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	D/E whitening	Dewhitening	RT model	RT PC name	Ch. Phys. Location	Room No.
VIS	Y	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-IX_F0.ACC_H1_SENS	ADC1	1	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-IX_F0.ACC_H2_SENS	ADC1	2	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-IX_F0.ACC_H3_SENS	ADC1	3	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-IX_F0.ACC_V_SENS	ADC1	4	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-IX_F0.LVDT_H1_SENS	ADC1	5	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-IX_F0.LVDT_H2_SENS	ADC1	6	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-IX_F0.LVDT_H3_SENS	ADC1	7	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor, vertical	K1:VIS-IX_F0.LVDT_V_SENS	ADC1	8	1				VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-IX_F0.LVDT_H1_BIAS	DAC1	1					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-IX_F0.LVDT_H2_BIAS	DAC1	2					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-IX_F0.LVDT_H3_BIAS	DAC1	3					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-IX_F0.LVDT_V_BIAS	DAC1	4					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-IX_F0.LVDT_H1_DEMOD	ADC1	9					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-IX_F0.LVDT_H2_DEMOD	ADC1	10					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-IX_F0.LVDT_H3_DEMOD	ADC1	11					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-IX_F0.LVDT_V_DEMOD	ADC1	12					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-IX_F0.LVDT_H1_MOD	DAC1	5					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-IX_F0.LVDT_H2_MOD	DAC1	6					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-IX_F0.LVDT_H3_MOD	DAC1	7					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-IX_F0.LVDT_V_MOD	DAC1	8					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-IX_F0.VC_H1_ACT	DAC1	9					1VY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-IX_F0.VC_H2_ACT	DAC1	10					1VY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-IX_F0.VC_H3_ACT	DAC1	11					1VY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-IX_F0.VC_V_ACT	DAC1	12					1VY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-IX_F0.VC_H1_MON	ADC1	13					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-IX_F0.VC_H2_MON	ADC1	14					VIY	kliy1	YFrontVI	44
VIS	Y	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-IX_F0.VC_H3_MON	ADC1	15					VIY	kliy1	YFrontVI	44

VIS	IY	Pre-Isolator	Voice coil monitor vertical	K1:VIS-IY_F0_VC_V_MON	ADC1	16			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS1	LVDT sensor, vertical	K1:VIS-IY_F1_LVDT_V_SENS	ADC1	17	1		V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS2	LVDT sensor, vertical	K1:VIS-IY_F2_LVDT_V_SENS	ADC1	18	1		V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS3	LVDT sensor, vertical	K1:VIS-IY_F3_LVDT_V_SENS	ADC1	19	1		V1Y	k1iy1	YFrontVI	44
VIS	IY	BF	LVDT sensor, vertical	K1:VIS-IY_BF_LVDT_V_SENS	ADC1	20	1		V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS1	LVDT sensor biasl, vertical	K1:VIS-IY_F1_LVDT_V_BIAS	ADC1	13			V1Y	k1iy1	XFrontVI	44
VIS	IY	GAS2	LVDT sensor biasl, vertical	K1:VIS-IY_F2_LVDT_V_BIAS	ADC1	14			V1Y	k1iy1	XFrontVI	44
VIS	IY	GAS3	LVDT sensor biasl, vertical	K1:VIS-IY_F3_LVDT_V_BIAS	ADC1	15			V1Y	k1iy1	XFrontVI	44
VIS	IY	BF	LVDT sensor biasl, vertical	K1:VIS-IY_BF_LVDT_V_BIAS	ADC1	16			V1Y	k1iy1	XFrontVI	44
VIS	IY	GAS1	LVDT signal for demodulation, vertical	K1:VIS-IY_F1_LVDT_V_DEMOD	ADC1	21			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS2	LVDT signal for demodulation, vertical	K1:VIS-IY_F2_LVDT_V_DEMOD	ADC1	22			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS3	LVDT signal for demodulation, vertical	K1:VIS-IY_F3_LVDT_V_DEMOD	ADC1	23			V1Y	k1iy1	YFrontVI	44
VIS	IY	BF	LVDT signal for demodulation, vertical	K1:VIS-IY_BF_LVDT_V_DEMOD	ADC1	24			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS1	LVDT excitation signal, vertical	K1:VIS-IY_F1_LVDT_V_MOD	DAC2	1			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS2	LVDT excitation signal, vertical	K1:VIS-IY_F2_LVDT_V_MOD	DAC2	2			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS3	LVDT excitation signal, vertical	K1:VIS-IY_F3_LVDT_V_MOD	DAC2	3			V1Y	k1iy1	YFrontVI	44
VIS	IY	BF	LVDT excitation signal, vertical	K1:VIS-IY_BF_LVDT_V_MOD	DAC2	4			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS1	Voice coil actuator, vertical	K1:VIS-IY_F1_VC_V_ACT	DAC2	5			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS2	Voice coil actuator, vertical	K1:VIS-IY_F2_VC_V_ACT	DAC2	6			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS3	Voice coil actuator, vertical	K1:VIS-IY_F3_VC_V_ACT	DAC2	7			V1Y	k1iy1	YFrontVI	44
VIS	IY	BF	Voice coil actuator, vertical	K1:VIS-IY_BF_VC_V_ACT	DAC2	8			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS1	Voice coil monitor vertical	K1:VIS-IY_F1_VC_V_MON	ADC1	25			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS2	Voice coil monitor vertical	K1:VIS-IY_F2_VC_V_MON	ADC1	26			V1Y	k1iy1	YFrontVI	44
VIS	IY	GAS3	Voice coil monitor vertical	K1:VIS-IY_F3_VC_V_MON	ADC1	27			V1Y	k1iy1	YFrontVI	44
VIS	IY	BF	Voice coil monitor vertical	K1:VIS-IY_BF_VC_V_MON	ADC1	28			V1Y	k1iy1	YFrontVI	44
VIS	IY		spare		DAC2	9			V1Y	k1iy1		
VIS	IY		spare		DAC2	10			V1Y	k1iy1		
VIS	IY		spare		DAC2	11			V1Y	k1iy1		
VIS	IY		spare		DAC2	12			V1Y	k1iy1		
VIS	IY		spare		DAC2	13			V1Y	k1iy1		
VIS	IY		spare		DAC2	14			V1Y	k1iy1		
VIS	IY		spare		DAC2	15			V1Y	k1iy1		
VIS	IY		spare		DAC2	16			V1Y	k1iy1		
VIS	IY		spare		ADC1	29			V1Y	k1iy1		
VIS	IY		spare		ADC1	30			V1Y	k1iy1		
VIS	IY		spare		ADC1	31			V1Y	k1iy1		
VIS	IY		spare		ADC1	32			V1Y	k1iy1		
VIS	IY	IM	OSEM sensor, horizontal 1	K1:VIS-IY_IM_H1_SENS	ADC2	1	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM sensor, horizontal 2	K1:VIS-IY_IM_H2_SENS	ADC2	2	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM sensor, horizontal 3	K1:VIS-IY_IM_H3_SENS	ADC2	3	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY		spare		ADC2	4			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM sensor, vertical 1	K1:VIS-IY_IM_V1_SENS	ADC2	5	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM sensor, vertical 2	K1:VIS-IY_IM_V2_SENS	ADC2	6	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM sensor, vertical 3	K1:VIS-IY_IM_V3_SENS	ADC2	7	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY		spare		ADC2	8			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM actuator, horizontal 1	K1:VIS-IY_IM_H1_ACT	DAC3	1			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM actuator, horizontal 2	K1:VIS-IY_IM_H2_ACT	DAC3	2			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM actuator, horizontal 3	K1:VIS-IY_IM_H3_ACT	DAC3	3			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY		spare		DAC3	4			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM actuator, vertical 1	K1:VIS-IY_IM_V1_ACT	DAC3	5			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM actuator, vertical 2	K1:VIS-IY_IM_V2_ACT	DAC3	6			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	IM	OSEM actuator, vertical 3	K1:VIS-IY_IM_V3_ACT	DAC3	7			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY		spare		DAC3	8			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM sensor, horizontal top	K1:VIS-IY_TM_T_SENS	ADC2	9	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM sensor, horizontal bottom	K2:VIS-IY_TM_B_SENS	ADC2	10	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM sensor, horizontal right	K3:VIS-IY_TM_R_SENS	ADC2	11	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM sensor, horizontal left	K4:VIS-IY_TM_L_SENS	ADC2	12	1		V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM actuator, horizontal top	K1:VIS-IY_TM_T_ACT	DAC3	9			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM actuator, horizontal bottom	K1:VIS-IY_TM_B_ACT	DAC3	10			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM actuator, horizontal right	K1:VIS-IY_TM_R_ACT	DAC3	11			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY	TM	OSEM actuator, horizontal left	K1:VIS-IY_TM_L_ACT	DAC3	12			V1Y	k1iy1	YFrontVI(YFrontCryoBack)	44(32)
VIS	IY		spare		ADC2	13			V1Y	k1iy1		
VIS	IY		spare		ADC2	14			V1Y	k1iy1		
VIS	IY		spare		ADC2	15			V1Y	k1iy1		
VIS	IY		spare		ADC2	16			V1Y	k1iy1		
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q1	ADC2	17		1	V1Y	k1iy1	YFrontCryoBack	32
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q2	ADC2	18		1	V1Y	k1iy1	YFrontCryoBack	32
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q3	ADC2	19		1	V1Y	k1iy1	YFrontCryoBack	32
VIS	IY	OL	Optical lever	K1:VIS-IY_OL_Q4	ADC2	20		1	V1Y	k1iy1	YFrontCryoBack	32
VIS	IY	SS	Wire position shadow sensor X	K1:VIS-IY_WIRE_X	ADC2	21		1	V1Y	k1iy1	YFrontCryoBack	32
VIS	IY	SS	Wire position shadow sensor Y	K1:VIS-IY_WIRE_Y	ADC2	22		1	V1Y	k1iy1	YFrontCryoBack	32
VIS	IY		spare		ADC2	23			V1Y	k1iy1		
VIS	IY		spare		ADC2	24			V1Y	k1iy1		
VIS	IY		spare		ADC2	25			V1Y	k1iy1		
VIS	IY		spare		ADC2	26			V1Y	k1iy1		
VIS	IY		spare		ADC2	27			V1Y	k1iy1		
VIS	IY		spare		ADC2	28			V1Y	k1iy1		
VIS	IY		spare		ADC2	29			V1Y	k1iy1		
VIS	IY		spare		ADC2	30			V1Y	k1iy1		
VIS	IY		spare		ADC2	31			V1Y	k1iy1		
VIS	IY		spare		ADC2	32			V1Y	k1iy1		
VIS	IY		spare		DAC3	13			V1Y	k1iy1		
VIS	IY		spare		DAC3	14			V1Y	k1iy1		
VIS	IY		spare		DAC3	15			V1Y	k1iy1		
VIS	IY		spare		DAC3	16			V1Y	k1iy1		

Whitening/dewhitening Total 22 6 18

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	EG whitening	Deshielding	RT model	RT PC name	Channel physical location	Room No.
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-EX_F0_ACC_H1_SENS	ADC1	1	1				VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-EX_F0_ACC_H2_SENS	ADC1	2	1				VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-EX_F0_ACC_H3_SENS	ADC1	3	1				VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-EX_F0_ACC_V_SENS	ADC1	4	1				VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-EX_F0_LVDT_H1_SENS	ADC1	5	1				VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-EX_F0_LVDT_H2_SENS	ADC1	6	1				VEX	klex1	XEndVI	60

VIS	EX	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-EX_F0_LVDT_H3_SENS	ADC1	7	1		VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor, vertical	K1:VIS-EX_F0_LVDT_V_SENS	ADC1	8	1		VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-EX_F0_LVDT_H1_BIAS	DAC1	1			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-EX_F0_LVDT_H2_BIAS	DAC1	2			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-EX_F0_LVDT_H3_BIAS	DAC1	3			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-EX_F0_LVDT_V_BIAS	DAC1	4			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-EX_F0_LVDT_H1_DEMOD	ADC1	9			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-EX_F0_LVDT_H2_DEMOD	ADC1	10			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-EX_F0_LVDT_H3_DEMOD	ADC1	11			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-EX_F0_LVDT_V_DEMOD	ADC1	12			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-EX_F0_LVDT_H1_MOD	DAC1	5			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-EX_F0_LVDT_H2_MOD	DAC1	6			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-EX_F0_LVDT_H3_MOD	DAC1	7			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-EX_F0_LVDT_V_MOD	DAC1	8			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-EX_F0_VC_H1_ACT	DAC1	9			1VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-EX_F0_VC_H2_ACT	DAC1	10			1VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-EX_F0_VC_H3_ACT	DAC1	11			1VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-EX_F0_VC_V_ACT	DAC1	12			1VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-EX_F0_VC_H1_MON	ADC1	13			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-EX_F0_VC_H2_MON	ADC1	14			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-EX_F0_VC_H3_MON	ADC1	15			VEX	klex1	XEndVI	60
VIS	EX	Pre-Isolator	Voice coil monitor vertical	K1:VIS-EX_F0_VC_V_MON	ADC1	16			VEX	klex1	XEndVI	60
VIS	EX	GAS1	LVDT sensor, vertical	K1:VIS-EX_F1_LVDT_V_SENS	ADC1	17	1		VEX	klex1	XEndVI	60
VIS	EX	GAS2	LVDT sensor, vertical	K1:VIS-EX_F2_LVDT_V_SENS	ADC1	18	1		VEX	klex1	XEndVI	60
VIS	EX	GAS3	LVDT sensor, vertical	K1:VIS-EX_F3_LVDT_V_SENS	ADC1	19	1		VEX	klex1	XEndVI	60
VIS	EX	BF	LVDT sensor, vertical	K1:VIS-EX_BF_LVDT_V_SENS	ADC1	20	1		VEX	klex1	XEndVI	60
VIS	EX	GAS1	LVDT sensor biasl, vertical	K1:VIS-EX_F1_LVDT_V_BIAS	ADC1	13			VEX	klex1	XEndVI	60
VIS	EX	GAS2	LVDT sensor biasl, vertical	K1:VIS-EX_F2_LVDT_V_BIAS	ADC1	14			VEX	klex1	XEndVI	60
VIS	EX	GAS3	LVDT sensor biasl, vertical	K1:VIS-EX_F3_LVDT_V_BIAS	ADC1	15			VEX	klex1	XEndVI	60
VIS	EX	BF	LVDT sensor biasl, vertical	K1:VIS-EX_BF_LVDT_V_BIAS	ADC1	16			VEX	klex1	XEndVI	60
VIS	EX	GAS1	LVDT signal for demodulation, vertical	K1:VIS-EX_F1_LVDT_V_DEMOD	ADC1	21			VEX	klex1	XEndVI	60
VIS	EX	GAS2	LVDT signal for demodulation, vertical	K1:VIS-EX_F2_LVDT_V_DEMOD	ADC1	22			VEX	klex1	XEndVI	60
VIS	EX	GAS3	LVDT signal for demodulation, vertical	K1:VIS-EX_F3_LVDT_V_DEMOD	ADC1	23			VEX	klex1	XEndVI	60
VIS	EX	BF	LVDT signal for demodulation, vertical	K1:VIS-EX_BF_LVDT_V_DEMOD	ADC1	24			VEX	klex1	XEndVI	60
VIS	EX	GAS1	LVDT excitation signal, vertical	K1:VIS-EX_F1_LVDT_V_MOD	DAC2	1			VEX	klex1	XEndVI	60
VIS	EX	GAS2	LVDT excitation signal, vertical	K1:VIS-EX_F2_LVDT_V_MOD	DAC2	2			VEX	klex1	XEndVI	60
VIS	EX	GAS3	LVDT excitation signal, vertical	K1:VIS-EX_F3_LVDT_V_MOD	DAC2	3			VEX	klex1	XEndVI	60
VIS	EX	BF	LVDT excitation signal, vertical	K1:VIS-EX_BF_LVDT_V_MOD	DAC2	4			VEX	klex1	XEndVI	60
VIS	EX	GAS1	Voice coil actuator, vertical	K1:VIS-EX_F1_VC_V_ACT	DAC2	5			1VEX	klex1	XEndVI	60
VIS	EX	GAS2	Voice coil actuator, vertical	K1:VIS-EX_F2_VC_V_ACT	DAC2	6			1VEX	klex1	XEndVI	60
VIS	EX	GAS3	Voice coil actuator, vertical	K1:VIS-EX_F3_VC_V_ACT	DAC2	7			1VEX	klex1	XEndVI	60
VIS	EX	BF	Voice coil actuator, vertical	K1:VIS-EX_BF_VC_V_ACT	DAC2	8			1VEX	klex1	XEndVI	60
VIS	EX	GAS1	Voice coil monitor, vertical	K1:VIS-EX_F1_VC_V_MON	ADC1	25			VEX	klex1	XEndVI	60
VIS	EX	GAS2	Voice coil monitor, vertical	K1:VIS-EX_F2_VC_V_MON	ADC1	26			VEX	klex1	XEndVI	60
VIS	EX	GAS3	Voice coil monitor, vertical	K1:VIS-EX_F3_VC_V_MON	ADC1	27			VEX	klex1	XEndVI	60
VIS	EX	BF	Voice coil monitor, vertical	K1:VIS-EX_BF_VC_V_MON	ADC1	28			VEX	klex1	XEndVI	60
VIS	EX		spare		ADC1	29			VEX	klex1		
VIS	EX		spare		ADC1	30			VEX	klex1		
VIS	EX		spare		ADC1	31			VEX	klex1		
VIS	EX		spare		ADC1	32			VEX	klex1		
VIS	EX		spare		DAC2	9			VEX	klex1		
VIS	EX		spare		DAC2	10			VEX	klex1		
VIS	EX		spare		DAC2	11			VEX	klex1		
VIS	EX		spare		DAC2	12			VEX	klex1		
VIS	EX		spare		DAC2	13			VEX	klex1		
VIS	EX		spare		DAC2	14			VEX	klex1		
VIS	EX		spare		DAC2	15			VEX	klex1		
VIS	EX		spare		DAC2	16			VEX	klex1		
VIS	EX	IM	OSEM sensor, horizontal 1	K1:VIS-EX_IM_H1_SENS	ADC2	1	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM sensor, horizontal 2	K1:VIS-EX_IM_H2_SENS	ADC2	2	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM sensor, horizontal 3	K1:VIS-EX_IM_H3_SENS	ADC2	3	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX		spare		ADC2	4			VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM sensor, vertical 1	K1:VIS-EX_IM_V1_SENS	ADC2	5	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM sensor, vertical 2	K1:VIS-EX_IM_V2_SENS	ADC2	6	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM sensor, vertical 3	K1:VIS-EX_IM_V3_SENS	ADC2	7	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX		spare		ADC2	8			VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM actuator, horizontal 1	K1:VIS-EX_IM_H1_ACT	DAC3	1			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM actuator, horizontal 2	K1:VIS-EX_IM_H2_ACT	DAC3	2			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM actuator, horizontal 3	K1:VIS-EX_IM_H3_ACT	DAC3	3			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX		spare		DAC3	4			VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM actuator, vertical 1	K1:VIS-EX_IM_V1_ACT	DAC3	5			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM actuator, vertical 2	K1:VIS-EX_IM_V2_ACT	DAC3	6			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	IM	OSEM actuator, vertical 3	K1:VIS-EX_IM_V3_ACT	DAC3	7			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX		spare		DAC3	8			VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM sensor, horizontal top	K1:VIS-EX_TM_T_SENS	ADC2	9	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM sensor, horizontal bottom	K2:VIS-EX_TM_B_SENS	ADC2	10	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM sensor, horizontal right	K3:VIS-EX_TM_R_SENS	ADC2	11	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM sensor, horizontal left	K4:VIS-EX_TM_L_SENS	ADC2	12	1		VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM actuator, horizontal top	K1:VIS-EX_TM_T_ACT	DAC3	9			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM actuator, horizontal bottom	K1:VIS-EX_TM_B_ACT	DAC3	10			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM actuator, horizontal right	K1:VIS-EX_TM_R_ACT	DAC3	11			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX	TM	OSEM actuator, horizontal left	K1:VIS-EX_TM_L_ACT	DAC3	12			1VEX	klex1	XEndVI(XEndCryoARsideDuct)	60(51)
VIS	EX		spare		DAC3	13			VEX	klex1		
VIS	EX		spare		DAC3	14			VEX	klex1		
VIS	EX		spare		DAC3	15			VEX	klex1		
VIS	EX		spare		DAC3	16			VEX	klex1		
VIS	EX		spare		ADC2	13			VEX	klex1		
VIS	EX		spare		ADC2	14			VEX	klex1		
VIS	EX		spare		ADC2	15			VEX	klex1		
VIS	EX		spare		ADC2	16			VEX	klex1		
VIS	EX	OL	Optical lever	K1:VIS-EX_DL_Q1	ADC2	17	1		VEX	klex1	XEndCryoARsideDuct	51
VIS	EX	OL	Optical lever	K1:VIS-EX_DL_Q2	ADC2	18	1		VEX	klex1	XEndCryoARsideDuct	51
VIS	EX	OL	Optical lever	K1:VIS-EX_DL_Q3	ADC2	19	1		VEX	klex1	XEndCryoARsideDuct	51
VIS	EX	OL	Optical lever	K1:VIS-EX_DL_Q4	ADC2	20	1		VEX	klex1	XEndCryoARsideDuct	51
VIS	EX	SS	Wire position shadow sensor X	K1:VIS-EX_WIRE_X	ADC2	21	1		VEX	klex1	XEndCryoARsideDuct	51

VIS	EX	SS	Wire position shadow sensor Y	K1:VIS-EX_WIRE_Y	ADC2	22		1	VEX	k1ex1	XEndCryoARsideDuct	51
AOS	EX		spare		ADC2	23			VEX	k1ex1		
AOS	EX		spare		ADC2	24			VEX	k1ex1		
AOS	EX	OL	Optical lever1 for BRT	K1:VIS-EX_OL1_Q1_SENS	ADC2	25			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever1 for BRT	K1:VIS-EX_OL1_Q2_SENS	ADC2	26			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever1 for BRT	K1:VIS-EX_OL1_Q3_SENS	ADC2	27			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever1 for BRT	K1:VIS-EX_OL1_Q4_SENS	ADC2	28			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever2 for BRT	K1:VIS-EX_OL2_Q1_SENS	ADC2	29			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever2 for BRT	K1:VIS-EX_OL2_Q2_SENS	ADC2	30			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever2 for BRT	K1:VIS-EX_OL2_Q3_SENS	ADC2	31			VEX	k1ex1	XEndCryoHRsideDuct	52
AOS	EX	OL	Optical lever2 for BRT	K1:VIS-EX_OL2_Q4_SENS	ADC2	32			VEX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q1	ADC3	1	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q2	ADC3	2	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q3	ADC3	3	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRX_QPD1_LG_Q4	ADC3	4	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q1	ADC3	5	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q2	ADC3	6	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q3	ADC3	7	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRX_QPD1_HG_Q4	ADC3	8	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q1	ADC3	9	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q2	ADC3	10	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q3	ADC3	11	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRX_QPD1_GR_Q4	ADC3	12	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q1	ADC3	13	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q2	ADC3	14	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q3	ADC3	15	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRX_QPD2_LG_Q4	ADC3	16	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q1	ADC3	17	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q2	ADC3	18	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q3	ADC3	19	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRX_QPD2_HG_Q4	ADC3	20	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q1	ADC3	21	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q2	ADC3	22	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q3	ADC3	23	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRX_QPD2_GR_Q4	ADC3	24	1		TRX	k1ex1	XEndCryoHRsideDuct	52
MIF	TRX		spare		ADC3	25			TRX	k1ex1		
MIF	TRX		spare		ADC3	26			TRX	k1ex1		
MIF	TRX		spare		ADC3	27			TRX	k1ex1		
MIF	TRX		spare		ADC3	28			TRX	k1ex1		
MIF	TRX		spare		ADC3	29			TRX	k1ex1		
MIF	TRX		spare		ADC3	30			TRX	k1ex1		
MIF	TRX		spare		ADC3	31			TRX	k1ex1		
MIF	TRX		spare		ADC3	32			TRX	k1ex1		

Whitening/dewhitening Total 22 30 18

Ch. No.	Subsystem	Location	Instrument	Signal description	Ch. Name	Card No.	Ch	Whitening	Dewhitening	RT model	RT PC name	Ch. Phys. Location	Room No.
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, horizontal 1	K1:VIS-EY_F0_ACC_H1_SENS	ADC1	1	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, horizontal 2	K1:VIS-EY_F0_ACC_H2_SENS	ADC1	2	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, horizontal 3	K1:VIS-EY_F0_ACC_H3_SENS	ADC1	3	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Accelerometer sensor for IP, vertical	K1:VIS-EY_F0_ACC_V_SENS	ADC1	4	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor, horizontal 1	K1:VIS-EY_F0_LVDT_H1_SENS	ADC1	5	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor, horizontal 2	K1:VIS-EY_F0_LVDT_H2_SENS	ADC1	6	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor, horizontal 3	K1:VIS-EY_F0_LVDT_H3_SENS	ADC1	7	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor, vertical	K1:VIS-EY_F0_LVDT_V_SENS	ADC1	8	1			VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor biasl, horizontal 1	K1:VIS-EY_F0_LVDT_H1_BIAS	DAC1	1				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor biasl, horizontal 2	K1:VIS-EY_F0_LVDT_H2_BIAS	DAC1	2				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor biasl, horizontal 3	K1:VIS-EY_F0_LVDT_H3_BIAS	DAC1	3				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT sensor biasl, vertical	K1:VIS-EY_F0_LVDT_V_BIAS	DAC1	4				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT signal for demodulation, horizontal 1	K1:VIS-EY_F0_LVDT_H1_DEMOD	DAC1	9				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT signal for demodulation, horizontal 2	K1:VIS-EY_F0_LVDT_H2_DEMOD	DAC1	10				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT signal for demodulation, horizontal 3	K1:VIS-EY_F0_LVDT_H3_DEMOD	DAC1	11				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT signal for demodulation, vertical	K1:VIS-EY_F0_LVDT_V_DEMOD	DAC1	12				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT excitation signal, horizontal 1	K1:VIS-EY_F0_LVDT_H1_MOD	DAC1	5				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT excitation signal, horizontal 2	K1:VIS-EY_F0_LVDT_H2_MOD	DAC1	6				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT excitation signal, horizontal 3	K1:VIS-EY_F0_LVDT_H3_MOD	DAC1	7				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	LVDT excitation signal, vertical	K1:VIS-EY_F0_LVDT_V_MOD	DAC1	8				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil actuator, horizontal 1	K1:VIS-EY_F0_VC_H1_ACT	DAC1	9			1	VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil actuator, horizontal 2	K1:VIS-EY_F0_VC_H2_ACT	DAC1	10			1	VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil actuator, horizontal 3	K1:VIS-EY_F0_VC_H3_ACT	DAC1	11			1	VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil actuator, vertical	K1:VIS-EY_F0_VC_V_ACT	DAC1	12			1	VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil monitor, horizontal 1	K1:VIS-EY_F0_VC_H1_MON	DAC1	13				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil monitor, horizontal 2	K1:VIS-EY_F0_VC_H2_MON	DAC1	14				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil monitor, horizontal 3	K1:VIS-EY_F0_VC_H3_MON	DAC1	15				VEY	k1ey1	YEndVI	80
VIS	EY	Pre-Isolator	Voice coil monitor, vertical	K1:VIS-EY_F0_VC_V_MON	DAC1	16				VEY	k1ey1	YEndVI	80
VIS	EY	GAS1	LVDT sensor, vertical	K1:VIS-EY_F1_LVDT_V_SENS	ADC1	17	1			VEY	k1ey1	YEndVI	80
VIS	EY	GAS2	LVDT sensor, vertical	K1:VIS-EY_F2_LVDT_V_SENS	ADC1	18	1			VEY	k1ey1	YEndVI	80
VIS	EY	GAS3	LVDT sensor, vertical	K1:VIS-EY_F3_LVDT_V_SENS	ADC1	19	1			VEY	k1ey1	YEndVI	80
VIS	EY	BF	LVDT sensor, vertical	K1:VIS-EY_BF_LVDT_V_SENS	ADC1	20	1			VEY	k1ey1	YEndVI	80
VIS	EY	GAS1	LVDT sensor biasl, vertical	K1:VIS-EY_F1_LVDT_V_BIAS	DAC1	13				VEY	k1ex1	XEndVI	80
VIS	EY	GAS2	LVDT sensor biasl, vertical	K1:VIS-EY_F2_LVDT_V_BIAS	DAC1	14				VEY	k1ex1	XEndVI	80
VIS	EY	GAS3	LVDT sensor biasl, vertical	K1:VIS-EY_F3_LVDT_V_BIAS	DAC1	15				VEY	k1ex1	XEndVI	80
VIS	EY	BF	LVDT sensor biasl, vertical	K1:VIS-EY_BF_LVDT_V_BIAS	DAC1	16				VEY	k1ex1	XEndVI	80
VIS	EY	GAS1	LVDT signal for demodulation, vertical	K1:VIS-EY_F1_LVDT_V_DEMOD	DAC1	21				VEY	k1ey1	YEndVI	80
VIS	EY	GAS2	LVDT signal for demodulation, vertical	K1:VIS-EY_F2_LVDT_V_DEMOD	DAC1	22				VEY	k1ey1	YEndVI	80
VIS	EY	GAS3	LVDT signal for demodulation, vertical	K1:VIS-EY_F3_LVDT_V_DEMOD	DAC1	23				VEY	k1ey1	YEndVI	80
VIS	EY	BF	LVDT signal for demodulation, vertical	K1:VIS-EY_BF_LVDT_V_DEMOD	DAC1	24				VEY	k1ey1	YEndVI	80
VIS	EY	GAS1	LVDT excitation signal, vertical	K1:VIS-EY_F1_LVDT_V_MOD	DAC2	1				VEY	k1ey1	YEndVI	80
VIS	EY	GAS2	LVDT excitation signal, vertical	K1:VIS-EY_F2_LVDT_V_MOD	DAC2	2				VEY	k1ey1	YEndVI	80
VIS	EY	GAS3	LVDT excitation signal, vertical	K1:VIS-EY_F3_LVDT_V_MOD	DAC2	3				VEY	k1ey1	YEndVI	80
VIS	EY	BF	LVDT excitation signal, vertical	K1:VIS-EY_BF_LVDT_V_MOD	DAC2	4				VEY	k1ey1	YEndVI	80
VIS	EY	GAS1	Voice coil actuator, vertical	K1:VIS-EY_F1_VC_V_ACT	DAC2	5			1	VEY	k1ey1	YEndVI	80
VIS	EY	GAS2	Voice coil actuator, vertical	K1:VIS-EY_F2_VC_V_ACT	DAC2	6			1	VEY	k1ey1	YEndVI	80
VIS	EY	GAS3	Voice coil actuator, vertical	K1:VIS-EY_F3_VC_V_ACT	DAC2	7			1	VEY	k1ey1	YEndVI	80
VIS	EY	BF	Voice coil actuator, vertical	K1:VIS-EY_BF_VC_V_ACT	DAC2	8			1	VEY	k1ey1	YEndVI	80

VIS	EY	GAS1	Voice coil monitor vertical	K1:VIS-EY_F1.VC_V.MON	ADC1	25			VEY	k1ey1	YEndVI	80
VIS	EY	GAS2	Voice coil monitor vertical	K1:VIS-EY_F2.VC_V.MON	ADC1	26			VEY	k1ey1	YEndVI	80
VIS	EY	GAS3	Voice coil monitor vertical	K1:VIS-EY_F3.VC_V.MON	ADC1	27			VEY	k1ey1	YEndVI	80
VIS	EY	BF	Voice coil monitor vertical	K1:VIS-EY_BF.VC_V.MON	ADC1	28			VEY	k1ey1	YEndVI	80
VIS	EY		spare		DAC2	9			VEY	k1ey1		
VIS	EY		spare		DAC2	10			VEY	k1ey1		
VIS	EY		spare		DAC2	11			VEY	k1ey1		
VIS	EY		spare		DAC2	12			VEY	k1ey1		
VIS	EY		spare		DAC2	13			VEY	k1ey1		
VIS	EY		spare		DAC2	14			VEY	k1ey1		
VIS	EY		spare		DAC2	15			VEY	k1ey1		
VIS	EY		spare		DAC2	16			VEY	k1ey1		
VIS	EY		spare		ADC1	29			VEY	k1ey1		
VIS	EY		spare		ADC1	30			VEY	k1ey1		
VIS	EY		spare		ADC1	31			VEY	k1ey1		
VIS	EY		spare		ADC1	32			VEY	k1ey1		
VIS	EY	IM	OSEM sensor, horizontal 1	K1:VIS-EY_IM_H1_SENS	ADC2	1	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM sensor, horizontal 2	K1:VIS-EY_IM_H2_SENS	ADC2	2	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM sensor, horizontal 3	K1:VIS-EY_IM_H3_SENS	ADC2	3	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY		spare		ADC2	4			VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM sensor, vertical 1	K1:VIS-EY_IM_V1_SENS	ADC2	5	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM sensor, vertical 2	K1:VIS-EY_IM_V2_SENS	ADC2	6	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM sensor, vertical 3	K1:VIS-EY_IM_V3_SENS	ADC2	7	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY		spare		ADC2	8			VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM actuator, horizontal 1	K1:VIS-EY_IM_H1_ACT	DAC3	1			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM actuator, horizontal 2	K1:VIS-EY_IM_H2_ACT	DAC3	2			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM actuator, horizontal 3	K1:VIS-EY_IM_H3_ACT	DAC3	3			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY		spare		DAC3	4			VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM actuator, vertical 1	K1:VIS-EY_IM_V1_ACT	DAC3	5			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM actuator, vertical 2	K1:VIS-EY_IM_V2_ACT	DAC3	6			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	IM	OSEM actuator, vertical 3	K1:VIS-EY_IM_V3_ACT	DAC3	7			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY		spare		DAC3	8			VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM sensor, horizontal top	K1:VIS-EY_TM_T_SENS	ADC2	9	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM sensor, horizontal bottom	K2:VIS-EY_TM_B_SENS	ADC2	10	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM sensor, horizontal right	K3:VIS-EY_TM_R_SENS	ADC2	11	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM sensor, horizontal left	K4:VIS-EY_TM_L_SENS	ADC2	12	1		VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM actuator, horizontal top	K1:VIS-EY_TM_T_ACT	DAC3	9			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM actuator, horizontal bottom	K1:VIS-EY_TM_B_ACT	DAC3	10			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM actuator, horizontal right	K1:VIS-EY_TM_R_ACT	DAC3	11			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY	TM	OSEM actuator, horizontal left	K1:VIS-EY_TM_L_ACT	DAC3	12			1VEY	k1ey1	YEndVI(YEndCryoARsideDuct)	80(71)
VIS	EY		spare		DAC3	13			VEY	k1ey1		
VIS	EY		spare		DAC3	14			VEY	k1ey1		
VIS	EY		spare		DAC3	15			VEY	k1ey1		
VIS	EY		spare		DAC3	16			VEY	k1ey1		
VIS	EY		spare		ADC2	13			VEY	k1ey1		
VIS	EY		spare		ADC2	14			VEY	k1ey1		
VIS	EY		spare		ADC2	15			VEY	k1ey1		
VIS	EY		spare		ADC2	16			VEY	k1ey1		
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q1	ADC2	17	1		VEY	k1ey1	YEndCryoARsideDuct	71
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q2	ADC2	18	1		VEY	k1ey1	YEndCryoARsideDuct	71
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q3	ADC2	19	1		VEY	k1ey1	YEndCryoARsideDuct	71
VIS	EY	OL	Optical lever	K1:VIS-EY_OL_Q4	ADC2	20	1		VEY	k1ey1	YEndCryoARsideDuct	71
VIS	EY	SS	Wire position shadow sensor X	K1:VIS-EY_WIRE_X	ADC2	21	1		VEY	k1ey1	YEndCryoARsideDuct	71
VIS	EY	SS	Wire position shadow sensor Y	K1:VIS-EY_WIRE_Y	ADC2	22	1		VEY	k1ey1	YEndCryoARsideDuct	71
VIS	EY		spare		ADC2	23			VEY	k1ey1		
VIS	EY		spare		ADC2	24			VEY	k1ey1		
AOS	EY	OL	Optical lever1 for BRT	K1:VIS-EY_OL1.Q1_SENS	ADC2	25			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever1 for BRT	K1:VIS-EY_OL1.Q2_SENS	ADC2	26			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever1 for BRT	K1:VIS-EY_OL1.Q3_SENS	ADC2	27			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever1 for BRT	K1:VIS-EY_OL1.Q4_SENS	ADC2	28			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever2 for BRT	K1:VIS-EY_OL2.Q1_SENS	ADC2	29			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever2 for BRT	K1:VIS-EY_OL2.Q2_SENS	ADC2	30			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever2 for BRT	K1:VIS-EY_OL2.Q3_SENS	ADC2	31			VEY	k1ey1	YEndCryoHRsideDuct	72
AOS	EY	OL	Optical lever2 for BRT	K1:VIS-EY_OL2.Q4_SENS	ADC2	32			VEY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q1	ADC3	1	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q2	ADC3	2	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q3	ADC3	3	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 low gain, for position	K1:MIF-TRY_QPD1_LG_Q4	ADC3	4	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q1	ADC3	5	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q2	ADC3	6	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q3	ADC3	7	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 high gain, for position	K1:MIF-TRY_QPD1_HG_Q4	ADC3	8	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q1	ADC3	9	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q2	ADC3	10	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q3	ADC3	11	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD1 green, for position	K1:MIF-TRY_QPD1_GR_Q4	ADC3	12	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q1	ADC3	13	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q2	ADC3	14	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q3	ADC3	15	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 low gain, for position	K1:MIF-TRY_QPD2_LG_Q4	ADC3	16	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q1	ADC3	17	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q2	ADC3	18	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q3	ADC3	19	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 high gain, for position	K1:MIF-TRY_QPD2_HG_Q4	ADC3	20	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q1	ADC3	21	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q2	ADC3	22	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q3	ADC3	23	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY	QPD	Transmitted light QPD2 green, for position	K1:MIF-TRY_QPD2_GR_Q4	ADC3	24	1		TRY	k1ey1	YEndCryoHRsideDuct	72
MIF	TRY		spare		ADC3	25			TRY	k1ey1		
MIF	TRY		spare		ADC3	26			TRY	k1ey1		
MIF	TRY		spare		ADC3	27			TRY	k1ey1		
MIF	TRY		spare		ADC3	28			TRY	k1ey1		
MIF	TRY		spare		ADC3	29			TRY	k1ey1		
MIF	TRY		spare		ADC3	30			TRY	k1ey1		
MIF	TRY		spare		ADC3	31			TRY	k1ey1		

MIF	TRY	spare		ADC3	32			TRY	k1ey1	
			Whitening/dewhitening	Total	22	30	18			