

PDs

Table	Type	Maker	Model	Sensor	Wavelength	Bandwidth	Res Freq	Present Application	Upgrade Application
ETMX	DC PD	ThorLabs	PDA520	-	400-1100 nm	100 KHz	no	TRX	same
	QPD	LIGO	D990272-A1-C	YAG-444-4A	200-1100 nm	60 MHz	no	TRX QPD	same
	QPD	LIGO	D990272-A1-C	YAG-444-4A	200-1100 nm	60 MHz	no	IP_ANG (beam alignment)	same
	Oplev QPD	LIGO	D980325	-	670nm	100 KHz	no	ETMX Oplev	same
ITMX	RF PD	LIGO	?	?	?	?	33 MHz	POX_33	?
	RF PD	LIGO	?	?	?	?	33 MHz	POY_33	?
	Oplev QPD	LIGO	-	-	670nm	100 KHz	-	ITMX Oplev	same
	RF PD	LIGO			?			not existing	POX_11
BS	RF PD	LIGO			?			not existing	POY_11
	QPD	LIGO	D990272-A1-C	YAG-444-4A	400-1150 nm	60 MHz	no	IP_POS (beam alignment)	same
	Oplev QPD	LIGO	D980325	-	670nm	100 KHz	no	SRM Oplev	same
	Oplev QPD	LIGO	D980325	-	670nm	100 KHz	no	PRM Oplev	same
	Oplev QPD	LIGO	D980325	-	670nm	100 KHz	no	BS Oplev	same
	QPD	LIGO	TBD					not existing	OMC QPD1
	QPD	LIGO	TBD					not existing	OMC QPD2
	RF PD	LIGO	TBD					not existing	POP_22
AS	RF PD	LIGO	TBD					not existing	POP_110
	DC PD	ThorLabs	PDA520	-	400-1100 nm	100 KHz	no	AS DC	same
	RF PD	LIGO	D980454 ?	C30642 ?	850-1550 nm	?	166 MHz	AS_166 (PD1)	same
	RF PD	LIGO	?	?	?	?	33 MHz	REFL_33 (PD2)	same
	RF PD	LIGO	D980454 ?	C30642 ?	?	?	199 MHz	REFL_DD (PD6))	no
	RF PD	LIGO	D980454 ?	C30642 ?	?	?	133 MHz	AS_133 (PD9)	no
	RF PD	LIGO	D980454 ?	C30642 ?	?	?	166 MHz	REFL_166 (PD11)	same
	DC PD	ThorLabs	PDA520	-	400-1100 nm	100 KHz	no	AP OSA	same
	DC PD	ThorLabs	PDA520	-	400-1100 nm	100 KHz	no	SP OSA	same
	QPD	LIGO	D990272-A1-C	YAG-444-4A	400-1150 nm	60 MHz	no	AS_QPD	same
	QPD	LIGO	D980012	YAG-444-4A	?	60 MHz	?	MC WFS1	?
	QPD	LIGO	D980012	YAG-444-4A	?	60 MHz	?	MC WFS2	?
	RF PD	LIGO						not existing	REFL_11
	RF PD	LIGO						not existing	REFL_55
RF PD	LIGO						not existing	AS_55	
ITMY	RF PD	LIGO	D980454 ?	C30642 ?	?	?	166 MHz	AS_166 (PD1)	AS_166
	RF PD	LIGO	D980454 ?	C30642 ?	?	?	133, 199 MHz	POB_133-199 (PD7-8)	no
	RF PD	LIGO	?	?	?	?	66 MHz	SPOB_66 (PD12)	no
	Oplev QPD	LIGO	D980325	-	670nm	100 KHz	no	ITMY Oplev	same
ETMY	DC PD	ThorLabs	PDA520	-	400-1100 nm	100 KHz	no	TRY	same
	QPD	LIGO	D990272-A1-C	YAG-444-4A	400-1150 nm	60 MHz	no	TRY QPD	same
	Oplev QPD	LIGO	D980325	-	670nm	100 KHz	no	ETMY Oplev	same
MC2	QPD	LIGO	TBD		TBD			not existing	MC2T QPD
PSL	RF PD	LIGO	D000455	C30642	850-1550 nm	20 MHz	21.5 MHz	REF CAV Reflection	Same ?
	RF PD	LIGO	D000386	C30642	850-1550 nm	-	35.5 MHz	PMC Reflection	Same ?
	RF PD	LIGO	?	?	?	?	no	RF AM Monitor	Same ?
	RF PD	LIGO	?	?	?	?	?	MZ Transmission	no
	RF PD	LIGO	D980454	?	?	?	?	ISS Monitor	Same ?
	RF PD	ThorLabs	PDA255	-	650-1750 nm	50 MHz	no	REF CAV Transmission	Same ?
	RF PD	ThorLabs	PDA55	-	320-1100 nm	10 MHz	no	PMC Transmission	Same ?
	QPD	LIGO	D980012	YAG-444-4A	?	60 MHz	?	MCT QPD	same
	QPD	LIGO	D980012 ?	YAG-444-4A	?	60 MHz	?	MC Reflection QPD1	Same ?
	QPD	LIGO	D980012 ?	YAG-444-4A	?	60 MHz	?	MC Reflection QPD2	Same ?

Demodulators

Existing Demodulators		
Board	Input Signal	Output Signal
LIGO D990511	AP 133	AS_DD133
	AP 166	AS_166
	AP 199	AS_DD199
	POX 33	POX
	POY 33	POY
	SP 33	REFL_DD33
	SP 166	REFL_166
	SP 199	REFL_DD199
	PO 133	PO_DD133
	PO 199	PO_DD199
	MC 29.5	MC REFL
LIGO D010276	PO 66 (LO Freq = 33)	SPOB 66
New Demodulators		
Board	Input Signal	Output Signal
LIGO D990511	AP 55	AS_55
	AP 165	AS_165
	POX 11	POX
	POY 11	POY
	SP 11	REFL_11
	SP 33	REFL_33
	SP 55	REFL_55
	SP 165	REFL_165
	MC 29.5	MC REFL
LIGO D010276	POP 22 (LO Freq = 11)	POP_22
	POP 110 (LO Freq = 55)	POP_110