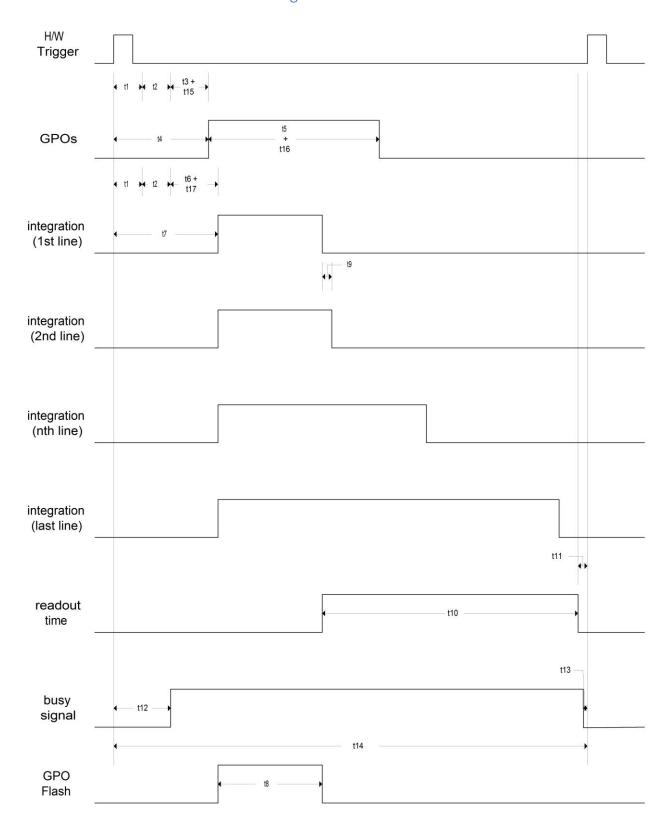
## For PL-D775 Trigger WITH Controlled Lighting

User should use GPO Flash to control Light Source or Electro-mechanical shutter



Signal	Description	Min	Тур	Max
Signal	Board Level hardware	171111	10 ns	Iviax
	propagation delay		TO IIS	
	(3.3V HCMOS to			
t1	trigger)			
l I	Enclosed hardware		8 us ON	
	propagation delay		30 us OFF	
	(5V to trigger		(Note 1)	
	optocoupler)		(11000 1)	
	Enclosed hardware		2.5 us ON	
	propagation delay		40 us OFF	
	(12V to trigger		(Note 1)	
	optocoupler)			
t2	Debounce time	1.0 us	1 us	1.0 us
t3	Programmable GPO	0.0 us	in 10 us steps	2.5 sec
	delay			
t4	Start of trigger to start		9.0 us	
	of GPO			
	(t1+t2+t3+t15)			
t5	Programmable GPO	10.0 us	in 10 us steps	2.5 sec
	time			
t6	Programmable Trigger	0.0 us	in 10 us steps	2.5 sec
	Delay			
t7	Start of trigger to start		1 us	
	of integration		(Note 2)	
40	(t1+t2+t6+t17)	tROW + 2000 *	D ohlo	
t8	Integration time		Programmable Step size is T9	
		clkPeriod	Step Size is 17	
t9	Row Time		See Readout Times	
t10	Read out time		See Readout Times	
t11	End of read out to start	67 us (no	depends on updates	1.0 ms (with
	of trigger	updates)	doponos ser ar	updates)
t12	Start of trigger to start	- F /	t1 + t2	
	of busy			
t13	End of busy to start of		25.0 ns	
	trigger			
t14	Frame period		t7 + t8 + t9 + t10 +	
			t11	
	Board Level hardware		20 ns	
t15	propagation delay			
&	(3.3V HCMOS from			
t16	GPO)		2 011	
	Enclosed hardware		3 us ON	
	propagation delay		70 us OFF	
	(GPO optocoupler		(Note 1)	
.17	with 1K pullup to 5V)		0	
t17	Global Reset Release		0 us	
Notoo	Setup Timing	L		

## Notes:

- 1. "ON" refers to current flowing through the optocoupler and "OFF" refers to no current flowing through the optocoupler. Refer to interface schematics.
- 2. For minimum hardware trigger, the programmable trigger (t6) should be set to 0 (minimum). For a software trigger, t7 = 1.7 ms typical.