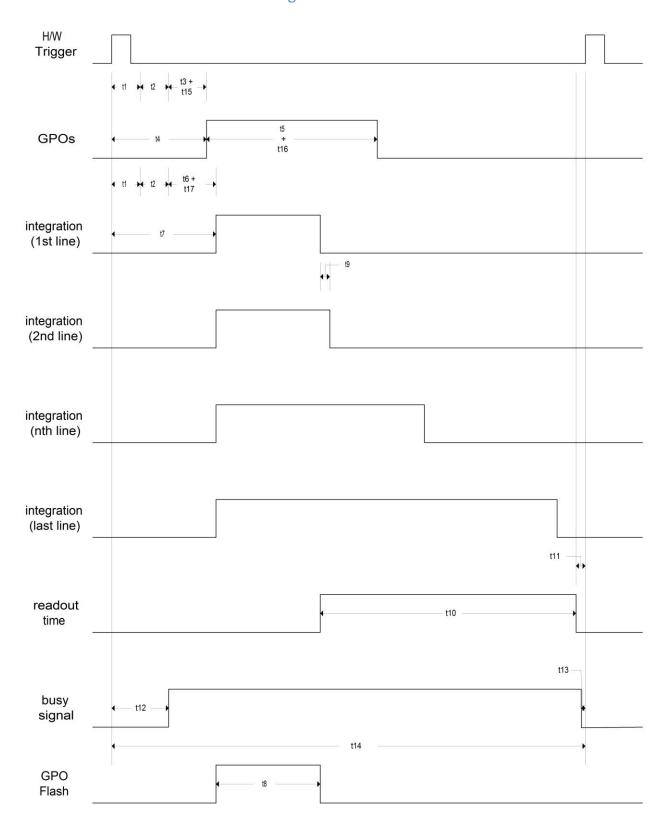
PL-D7715 Trigger WITH Controlled Lighting

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



Signal	Description	Min	Тур	Max
5151141	Board Level hardware	177	10 ns	TVIUN
	propagation delay			
	(3.3V HCMOS to			
t1	trigger)			
	Enclosed hardware		8 us ON	
	propagation delay		30 us OFF	
	(5V to trigger		(Note 1)	
	optocoupler)			
	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 delay	0.0 us	in 10 us steps	2.5 sec
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 Delay	0.0 us	in 10 us steps	2.5 sec
t7	Start of trigger to start		561 us	
	of integration		(Note 2)	
	(t1 + t2 + t6 + t17)			
t8	Integration time	140 us	Step Size 2.33 us	5.0 sec
t9	Row Time		See Readout Times	
t10	Read out time		See Readout Times	
t11	End of read out to start	50 us (no	depends on updates	1.0 ms (with
	of trigger	updates)		updates)
t12	Start of trigger to start of busy		t1 + t2	
t13	End of busy to start of		25.0 ns	
113	trigger		25.0 118	
t14	Frame period		t7 + t8 + t9 + t10 +	
	Trame period		t11	
	Board Level hardware		20 ns	
t15	propagation delay			
&	(3.3V HCMOS from			
t16	GPO)			
	Enclosed hardware		3 us ON	
	propagation delay		70 us OFF	
	(GPO optocoupler		(Note 1)	
	with 1K pullup to 5V)			
t17	Global Reset Release	549.24 us	560 us	571.65 us
	Setup Timing			

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.