PTU E Series COMMAND Chart (E46/D48E/D100E/D300E)

SUSTAINable Robotics

2017/1/13

Category	Chapter	Command	Funtion	All	Execute PAN	Execute TILT	Query PAN	Query TILT
Position Control	4.1	Position (absolute)			PP<position><delim>	TP<position><delim>	PP<delim>	TP<delim>
	4.2	Offset Position (relative offset)			PO<position><delim>	TO<position><delim>	PO<delim>	TO<delim>
	4.3	Resolution per Position					PR<delim>	TR<delim>
	4.4	Limit Position Queries	minimum				PN<delim>	TN<delim>
			maximum				PX<delim>	TX<delim>
	4.5	Position Limit Enforcement	enable	LE<delim>				
			disable	LD<delim>				
	4.6	Immediate Position Execution Mode		I<delim>			IQ<delim>	
		Slaved Position Execution Mode		S<delim>				
	4.7	Await Position Command Completion		A<delim>				
	4.8	Halt Command		H<delim>	HP<delim>	HT<delim>		
	4.9 4.10	Monitor (Autoscan) Command	pan only	M<pan pos 1>,<pan pos 2><delim>				
			both axis	M<pan pos 1>,<pan pos 2>,<tilt pos 1>,<tilt pos 2><delim>				
			enable	ME<delim>				
			disable	MD<delim>				MQ<delim>
			status					MS<delim>
	4.11	Position Presets	set preset	XS<index><delim>				
			go to preset	XG<index><delim>				
			clear preset	XC<index><delim>				
	4.12	PTU Speed/Position		B<pan pos>,<tilt pos>,<pan speed>,<tilt speed><delim>			B<delim>	
Speed Control	5.1	Speed (absolute)			PS<positions/sec><delim>	TS<positions/sec><delim>	PS<delim>	TS<delim>
	5.2	Delta Speed (relative offset)			PD<positions/sec><delim>	TD<positions/sec><delim>	PD<delim>	TD<delim>
	5.3	Acceleration			PA<positions/sec2><delim>	TA<positions/sec2><delim>	PA<delim>	TA<delim>
	5.4	Base (Start–Up) Speed			PB<positions/sec><delim>	TB<positions/sec><delim>	PB<delim>	TB<delim>
	5.5	Speed Bounds	upper		PU<positions/sec><delim>	TU<positions/sec><delim>	PU<delim>	TU<delim>
			lower		PL<positions/sec><delim>	TL<positions/sec><delim>	PL<delim>	TL<delim>
	5.6	Speed Control Modes	query	C<delim>				
			independent	CI<delim>				
			pure velocity	CV<delim>				
Continuous Axis Rotation	6.1	Stationary Power Mode	enable		PCE<delim>		PC<delim>	
			disable		PCD<delim>			
User–Defined Limits	7.1	Position Limit Queries	execute	R<delim>				
			disable	RD<delim>				
			mimimum				PN<delim>	TN<delim>
			maximum				PX<delim>	TX<delim>
			user minimum		PNU<value><delim>	TNU<value><delim>	PNU<delim>	TNU<delim>
			user maximum		PXU<value><delim>	TXU<value><delim>	PXU<delim>	TXU<delim>
	7.2	Position Limit Enforcement	enable factory limits	LE<delim>				
			enable user dfined	LU<delim>				
			disable	LD<delim>				
Unit Commands	8.1	Reset Pan–Tilt Unit	execute	R<delim>	RP<delim>	RT<delim>		
			desable	RD<delim>				
			exnable	RE<delim>				
	8.2	Default Save/Restore	save	DS<delim>				
			restor	DR<delim>				
			factory defaults	DF<delim>				
	8.3	Echo Query/Enable/Disable	query				E<delim>	
			enable	EE<delim>				
			disable	ED<delim>				
	8.4	Feedback Verbose/Terse/Off	query				F<delim>	
			verbose	FV<delim>				
			terse	FT<delim>				
	8.5	Query PTU Firmware Version					V<delim>	
		Query PTU Short Firmware Version					VV<delim>	
		Query PTU model number					VM<delim>	
		Query PTU serial number					VS<delim>	
	8.6	Supply Voltage and Temperature					O<delim>	
Power Control	9.1	Stationary Power Mode	regular		PHR<delim>	THR<delim>	PH<delim>	TH<delim>
			low		PHL<delim>	THL<delim>		
			off		PHO<delim>	THO<delim>		
	9.2	In-Motion Power Mode	high		PMH<delim>	TMH<delim>	PM<delim>	TM<delim>
			regular		PMR<delim>	TMR<delim>		
			low		PML<delim>	TML<delim>		
Host Serial Port	10.1	Configuring Host Serial Port		@(<baud>,<byte delay in msec>,<startup default>)<delim>				
Expanded I/O	11.1	Establish communications	PortA	@A<delim>				
			PortB	@B<delim>				
		Resume communications with the PTU		@<delim>				
	11.2	Establish communications	PortA	@A(<baud>,<databits>,<parity>,<handshaking>)<delim>				
			PortB	@B(<baud>,<databits>,<parity>,<handshaking>)<delim>				
ASCII TTL Control	11.3	TTL high		OOH<n><delim>				
		TTL low		OOL<n><delim>				
Step Modes	12.1	Configuring Step Mode			WP<resolution><delim>	WT<resolution><delim>	WP<delim>	WT<delim>
PTU Serial Network	13.1	Set PTU to interactive mode		U0<delim>				
		Set PTU network unit ID		U<Unit ID><delim>			U<delim>	
	13.2	Unit Select/Deselect	Unit Select	_<unit ID><delim>				
			Bloadcast to all netwoek	0<delim>				
IP Network	14.1	MAC Address		NA<mac_address><delim>			NA<delim>	
	14.2	IP Addtess		NI<ip_address><delim>			NI<delim>	
							NM<delim>	
	14.3	Network Mode	Dinamic network mode	NMD<delim>				
			Static network mode	NMS<delim>				
	14.4	Redirect Port	TCP	NRT80,<newport><delim>			NRT80<delim>	
			UDP	NRU4000,<newport><delim>			NRU4000<delim>	
	14.5	Network Gateway		NG<ip_address><delim>			NG<delim>	
	14.6	Network Host Name		NN<hostmname><delim>			NN<delim>	
	14.7	Network Mask		NS<subnet><delim>			NS<delim>	
Control Modes	15.1	Control Modes	Query current control mode				CT<delim>	
			Set open loop	COL<delim>				
			Set encoder correction	CEC<delim>				
			Query the number of corrections				CPEC<delim>	CTEC<delim>
Geo Pointing	17	See Command Reference Manual						
Pelco-D	18.1	Pelco-D Configuration	Query Pelco-D parsing				QP<delim>	
			Enable Pelco-D parsing	QPE<delim>				
			Disable Pelco-D parsing	QPD<delim>				
			Pelco-D Address	QPA<n><delim>			QPA<delim>	