



Products overview

Controllers, Remote Devices, System

Controllers	LPC			TPC		LPC X	VLC
	LPC 1	LPC 2	LPC 4	TPC	TPC+EXT		
Scalable with other Pharos Controllers	✓			✓		✓	✓
Scalable with remote devices (qty)	✓(16)	✓(32)	✓(64)	✓(16)		✓(100)	✓(100)
Commissioned with Pharos Designer 2	✓			✓		✓	✓
Pharos Engine (intelligent timeline control)	✓			✓		✓	✓
Pharos Trigger (including variables & scripting support)	✓			✓		✓	✓
Pharos Mapping (multiform 2D representations)	✓			✓		✓	
Pharos Render (optimised single large array playback)							✓
Universes (x 512 for channels)	1	2	4	1	1	10-100	50-1500
eDMX output (sACN, Art-Net, KiNET, Pathport)	✓			✓		✓	✓
DALI control	↔			↔	✓(1bus)	↔	↔
LED fixtures (RGB, RGBA, RGBAW, 8-bit, 16-bit)	✓			✓		✓	✓
LED White, tuneable white, Intensity channels, Generic fixtures, DALI ballasts, automated, fountain jets	✓			✓		✓	
Flexible grouping and zoning	✓			✓		✓	
Manual intensity and colour override	Any group			Any group		Any group	Output only
eDMX to DMX pass-through (local to a controller)	1 univ.	2 univ.			1 univ.		
Live video input (DVI-D, local to a controller)						Optional	✓
DMX output (ports x channels)	1x512	2x512		↔***	1x512		
RS232 integration (any syntax)				↔	✓	✓	✓
RS485 integration (any syntax)	✓			↔		↔	↔
DMX input (for triggering and mastering)				↔		↔	↔
eDMX input (sACN, Art-Net, triggering and mastering)	✓**			✓		✓	✓
Ethernet integration (UDP/TCP, any syntax)	✓			✓		✓	✓
Touch panel interface	↔			✓		↔	↔
DALI integration	↔			↔	✓	↔	↔
Analog inputs							
Digital inputs	8*			↔	8*	↔	↔
Contact closure inputs							
Solid state relay outputs	↔			↔		↔	↔
MIDI integration (Short, MSC, Extended)	✓			↔		↔	↔
MIDI Time Code (MTC) input	✓			↔		↔	↔
Linear Time Code (LTC) input	↔			↔		↔	↔
Audio input (Stereo/Mono, Volume, 3-30 bands)	↔			↔		↔	↔
Built in web server (customisable)	✓			✓		✓	✓
PC & Mobile device control interface	✓			✓		✓	✓
Button input	↔			↔		↔	↔
Learning IR codes	↔			16		↔	↔
DIN-rail mount	✓				✓ (EXT)		
Wall mount (surfaced and recessed)				✓	✓ (TPC)		
19" mount						✓	✓
Power input	PoE or 9-48V DC			PoE	110-240VAC	110-240VAC	110-240VAC
Power consumption	4W			4W	10W	40W	40W
Warranty	5 years			5 years		5 years	5 years

✓ = on board ↔ = supported with seamless integration using a Remote Device or another Pharos controller in the same project.

A cell spanning multiple rows represents a shared resource that can be used for only one of the listed functions.

* = Divide at will across the rows. ** = not in combination with DMX-input. *** = 2nd output of LPC 1 can be used for TPC output.

Multiple Pharos controllers and remote devices will operate as a single system via Ethernet. All inputs and outputs can be used across the Pharos system (unless stated otherwise).



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Scalable with Pharos Controllers	TPS	RIO			RIO A	RIO D	BPS
		RIO 80	RIO 44	RIO 08			
Scalable with other Pharos Controllers	Operates seamlessly in a system with a least one controller						
Scalable with remote devices (qty)							
Commissioned with Pharos Designer 2	✓	✓			✓	✓	✓
DALI control						✓ (1bus)	
DMX output		✓ (up to 96 channels DMX)					
RS232 integration (any syntax)							
RS485 integration (any syntax)							
Touch panel interface	✓						
DALI integration						✓	
Analog inputs		8*	4*	0			
Digital inputs							
Contact closure inputs							
Solid state relay outputs		0	4	8			
MIDI integration (Short, MSC, Extended)					✓		
MIDI Time Code (MTC) input					✓		
Linear Time Code (LTC) input					✓		
Audio input (Stereo/Mono, Volume, 3-30 bands)							
Button input							8
Integrated button LEDs for feedback (programmable)							✓
Learning IR codes	16						8
DIN-rail mount		✓			✓	✓	
Wall mount (UK & US 1-Gang)							✓
Wall mount (surfaced and recessed)	✓						
Power input	PoE	PoE			PoE	PoE	PoE
Power consumption	4W	2W			2W	2W	2W
Warranty	5 years	5 years			5 years	5 years	5 years

✓ = on board

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* = Divide at will across the rows.

To improve readability, and as a controller is always required, integration between remote devices is not explicitly indicated.

Multiple Pharos controllers and remote devices will operate as a single system via Ethernet. All inputs and outputs can be used across the Pharos system (unless stated otherwise).



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Controllers, Remote Devices, System

System	
Controllers and Touch Devices in a system	Up to 40
Remote devices in a system	Up to 200
Commissioned with Pharos Designer 2	✓
Multiple systems in a network	✓
Pharos Engine (intelligent timeline control)	All timelines playback simultaneous on all controllers (if there is content to play for the specific controller)
Pharos Trigger (including variables & scripting support)	Inputs and outputs can be used across all controllers (except Live video input and (e)DMX pass-through)
Flexible grouping and zoning	Luminaires can be in one or multiple groups, (controller independent) allowing for fixed or flexible zone control (except VLC)
Manual intensity and colour override	Of any group or individual fixture (except VLC)
Universes (x 512 for channels)	40 controllers, each with 1-1500 universes Channels of a controller can be output to multiple universes
eDMX output (sACN, Art-Net, KiNET, Pathport)	Output multiple protocols simultaneous
DALI control and integration	Up to 200 busses
eDMX input (sACN, Art-Net, triggering and mastering)	Up to 40
DMX-input (for triggering and mastering)	Up to 40
DMX output (ports x channels)	Up to 240
RS232 integration (any syntax)	Up to 240 ports, any setting, any syntax
RS485 integration (any syntax)	Up to 240 ports, any setting, any syntax
Ethernet integration (UDP/TCP, any syntax)	5 busses, any IP/Port selection and any syntax
Inputs	Up to 1920
Solid state relay outputs	Up to 1600
Touch panel input	Up to 40, either cloned or independent behaviour
Button input	Up to 200 BPS, either cloned or independent behaviour
MIDI integration (Short, MSC, Extended)	Up to 200 inputs / outputs
MIDI Time Code (MTC)	Up to 12 timecode busses, time format set per bus
Linear Time Code (LTC)	(MTC, 24fps (film), 25fps (EBU), 29.97fps (NTSC) & 30fps (SMPTE))
Audio input (Stereo/Mono, Volume, 3-30 bands)	Up to 4 audio busses, 30 bands stereo each
Built in custom web server	1 custom interface per project, multipage, 3 access levels
Warranty	5 years

See the help file for limits inside Designer software. Please note many limits are set arbitrary.
Please contact support@pharoscontrols.com if you feel your project might exceed the limitations mentioned here.