













## GENERAL PHAROS NOTES

- All items require commissioning in order to operate.
- All devices can be fully configured via the network. Only the thumb wheel on RIO's / BPS's are set on the device itself. Consider setting this thumb wheel upon installation. (ask your system integrator for details).
- All luminaires connected to a Pharos system can be individually controlled during commissioning / programming. If multiple controllers are used the system channel count is the sum of the used controllers. Except for VLC installations, the luminaires "patched" to this controller act as a single 'canvas'.
- All inputs and outputs can be used freely throughout a multi device installation. The only exception are DVI inputs and outputs, those are local to a controller.
- The Pharos system can scale via Ethernet to impressive dimensions. Standard unmanaged Ethernet switches can be used, and/or standard unmanaged PoE switches (IEEE802.3af compliant). For a managed IT installation, please see our application notes for configuration details.
- All cabling, installation and commissioning to be supplied by 3rds unless otherwise agreed.
- Drawings are not on scale. 19" equipment is drawn at ~ 50% size of DIN rail equipment.

### Cabling colours used in Pharos drawings:

	<b>DMX/RDM</b>	Shielded twisted pair 120 Ohm or Cat5e cable. Daisy chain, < 300m, max 32 devices per output (more using booster)
	<b>Ethernet / PoE</b>	Cat5e cable or higher, < 100m. for each run. Use standard Ethernet switches to increase distance, or add fiber optic cables to cover long lengths (up to km's)
	<b>DALI</b>	Mains rated cable, free typology, <300m., 64 devices per bus
	<b>RS232</b>	Shielded cable preferred, not mandatory. Depending configuration, < 15-100m.
	<b>RS485</b>	Shielded twisted pair 120 Ohm or Cat5e. Depending configuration, < 300m.
	<b>Inputs</b>	Standard (low voltage) wires. Depending cable paths, preferably short (<10m. to prevent interference. Add a RIO if the input is far away from the controller
	<b>Outputs</b>	Standard (low voltage) wires.
	<b>DC Power</b>	Standard (low voltage) wires. Max length depending cable paths and voltage. Consider PoE if longer distances need to be covered.
	<b>Mains</b>	Standard cabling meeting local regulations. Ensure earth is connected.
	<b>MIDI</b>	Default MIDI cables
	<b>Audio</b>	Default shielded Audio cables Balanced or unbalanced depending audio devices involved
	<b>DVI</b>	Default DVI cables

**ALL NOTES ARE GENERAL INDICATIONS, EXCEPTIONS MIGHT APPLY  
CONTACT YOUR INSTALLER FOR FURTHER DETAILS**



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Reference:  
9999

Name:  
General notes

Size:  
A4

Date:	Rev:	Notes:
15/11/2016	V 1.0	Setup

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