

Site Ref:

Date:

The PAV Quick Check Guide for Surveyors and Installers.

This document has been prepared as a simple checklist to assist surveyors and installers of PAV equipment to achieve first time installation success every time. It is supported with the following documents prepared by PAV:

- 1 Page Site Survey Form.
- 1 Page Site Installation Record and sign off form.
- 1 Page Alignment Test Result Form
- 1 Page Maintenance/Repair Report Form

If these documents are filled in accurately and filed correctly they are an invaluable source of information for the help desk and support engineers.

1.	Site Survey Checklist	Completed Y/N
1.1	Attend both site locations to confirm line of site is achievable. For long distances, use a telescope or position a strobe light at the remote site to identify the position. Nominate a each site as an A- end or B –end for easy reference.	
1.2	Confirm mounting position for the PAV equipment. What is the structure that the PAV units will be mounted on? Check stability (If on a tower or pole, we advise to mount as low as possible to reduce the movement) and note the type of brackets that are required.	
1.3	Confirm compass direction and distance of proposed link with GPS readings. (Google Earth is also a useful tool)	
1.4	Where possible take digital pictures of the surrounding environment from the proposed mounting position. These can be sent to pav@pwcomms.co.uk if there any questions with the sites suitability. (Detail on the pictures where the sites are).	
1.5	Confirm the type of cabling required and the route for the cable runs. How they will terminate and be protected i.e. trunking, copex, conduit etc. Do they need to terminate in the head units or in weather proof boxes?	
1.6	Confirm the locations and type of power available for the system. e.g. 230vac fused mains spur, 48vdc rectifier etc. If an AC supply is to be used is it a clean supply or is a UPS/Mains Filter required (this is recommended).	
1.7	Confirm which system type and interface is required. (Take note of distance, varying weather conditions and how the system is mounted.)	
1.8	Confirm what customer data equipment the PAV system is to connect to and what interface it has available.	
1.9	Identify any access requirements and any safety issues (equipment required). Is a written risk assessment required for the site safety officer?	
1.10	Fill out the PAV 1 Page Survey Report for reference. Including a sketch of the network on the back of it can prove valuable later.	

Completed By..... Date

2.	Pre-Installation Checklist	Completed Y/N
2.1	Have the correct brackets been mounted in the correct position on the structures and check that the bolts are secure.	
2.2	Has the data cabling been installed and tested (Very Important). Have the test reports been passed to the Project Manager?	
2.3	If the cabling terminates into a weather proof box; are all the glands secure?	
2.4	Has the power cabling been correctly installed and terminated and is the power available?	
2.5	Confirm that any recommendations from the site survey report have been followed and that the PAV and customer equipment interfaces are correct and compatible types.	

Completed By..... Date

3.	Installation Checklist	Completed Y/N
3.1	Mount the PAV link heads onto the brackets. Identify the remote site using either telescope or strobe light if the site is not easily identifiable (<i>Do not use optical viewing aids for short distances</i>). Point the links heads at each other.	
3.2	Follow the PAV installation Basic Alignment Procedure as per O&M manual and CPI training. Do not move to the fine alignment procedure until basic alignment is achieved.	
3.3	Follow the PAV installation Fine Alignment Procedure as per O&M manual and CPI training.. Do not try and commission or test the system until you have done this or it will fail.	
3.4	Has optimal alignment been achieved? Do you get similar signal strengths in both directions using the same masks? Fill in the Alignment Results Sheet and sign it.	
3.5	Confirm that the alignment masks have been removed from the front of the link heads before testing.	
3.6	Test the link with an end –end Bit Error Rate tester for a minimum 15 minutes.	
3.7	Complete the 1 page PAV Installation Form and sign it.	

Completed By..... Date