

	Doc or ECO #:	ECO-CAM-HSG-R-002	Date:	1/31/19	Author:	JV
	Rev. #:	D				
Engineering Change Order (ECO) New Camera for PRO4	Engineering Approval:	Aeg	Date:	10/23/18	Quality Approval	DO

P/N #:	CAM-HSG-R	Effective Date:	October 21, 2018
Title:	Camera replacement for PRO4		

1.0 Purpose / Summary

The main pro4 camera went EOL, the replacement camera fits original parts but has a slightly different button pattern on the back. CAM-HSG-R was updated to fit the new button pattern and hold new camera.

2.0 Parts Affected

Part Number	Notes	Removed	Added	New	Modified	Inactive
CAM-HSG-R	Relief hole pattern rearranged	☐	☐	☐	☒	☐
CAH-001N4	Camera switched to ACE-WDR38CHB	☐	☐	☐	☒	☐
CAH-001P4	Camera switched to ACE-WDR38CHB	☐	☐	☐	☒	☐
VR-PRO4-13-0002-N	Affix correct camera label	☐	☐	☐	☒	☐
VR-PRO4-13-0002-P	Affix correct camera label	☐	☐	☐	☒	☐

3.0 Detail

The Pro4 main camera went EOL and has been replaced by ACE-WDR38CHB.

The relief holes were increased in side and moved to new locations to allow fitment of the new camera. Part CAM-HSG-R was 3D printed in slices to check the fitment of the camera throughout multiple versions the final was tested, selected and moved forward with. Two prototypes were fabricated for test.

Dave Phillips performed successful field testing.

The camera menu has changed, and new settings are required. See (Pro4 Camera Settings - ACE-WDR38CHB.xcel) for details.

All new camera (CAH-001N4, CAH-001P4) will have a REV-2 sticker attached to the top of the camera assembly. All new cameras will have internal software S/N entered as following “**yearREV2xxxx**” scheme.

Old cameras put into use, which can use CAM-HSG-R Rev B, should get the previous REV1 markings. All old cameras will have internal software S/N entered as following “**yearREV1xxxx**” scheme.

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4.0 Disposition of Material

Maintain any old stock for repairs.

Otherwise swapping the camera and mount plate will be required.

Old stock PAL cameras (CAH-001P4) can be used as needed.

5.0 Action Items

Action	Department	Acknowledgement Initials
Notify PPI	Purchasing	NS

6.0 Modified / Referenced Documents:

Document	Current Revision
ACE-WDR38CHB User Manual	Click here to enter text.
Pro4 Camera Settings - ACE-WDR38CHB.xcel	A

7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
9/21/2018		Initial Release	JV
10/23/2018	3.0	Add note to mark camera with REV2 serial number	AEG
1/31/2019	2.0, 3.0, 4.0	Add information on PAL cameras, add assembly that gets the label, clarify REV1 usage	AEG
1/31/2019	Header, 7.0	Fix dates	AEG