	Exception	
QuickView Air HD	**Yes**	**No**
1. General Requirements		
a. The proposed system must be a self-contained wireless zooming camera. Camera systems that require wired connections to controls/viewers shall be deemed unacceptable.		
b. The proposed system must be able to be operated by one person, requiring no entry into confined space areas.		
c. System shall be controlled by tablet or laptop app designed specifically for the QVA system.		
d. No tools required for setting up or accessorizing the system.		
2. Camera Head: Module & Housing		
a. The camera will produce a color video image and provide a minimum of 1280x720 (2.38 megapixel) video resolution.		
b. Camera construction shall include all solid-state circuitry designed to withstand shocks and vibrations		
c. The camera shall have a zoom feature of 30:1 optical and a digital zoom of 12 times for a total of 360:1 magnification.		
d. Camera shall have ability for auto and manual focus via control app..		
e. System illumination shall be haloptic LED, dimmable for various pipe conditions.		

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f. The camera housing shall be made of lightweight aluminum for ease of operation.		
g. Camera shall have Schrader air valve for purge and pressurization of electronic components to prevent moisture ingress.		
h. Camera shall have pressure relief valve so system cannot be over-pressurized.		
i. Camera shall have ability to tilt via control app.; minimum +10-degrees and -30-degrees from horizontal.		
j. Camera shall require no wired connections to operator controls or viewing devices.		
k. System shall have quick-connect camera head feature where camera head attaches mechanically to the pole via a single cam lock and collar. No tools required.		
l. Camera shall be supported in-pipe via integrated stand-off pole.		
m. Camera shall include two interchangeable battery packs and charging station.		
n. Camera and accessories shall be housed in a pelican style protective case.		
o. Camera head shall be capable of distance measurement using zoom and focus input		

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p. Camera shall be capable of distance laser measurement with optional laser device.		
3. Controller (App., Menu System, Viewers)		
a. Control app. shall be available for download to Android, iOS, and Windows devices.		
b. Control app. shall allow one device to control camera/recording functions and connection of multiple devices for viewing. All connections via wifi.		
c. The control app. shall include controls on screen for zoom, manual/auto focus, camera tilt, light intensity/dimming, recording video, capturing still images, and show/remove on-screen text.		
d. Control app. shall have indicators for battery charge level, zoom level, and light intensity level.		
e. Control app. shall include on-screen text displays, including date/time and two customizable lines of text.		
f. Control app. shall include ability to show GPS coordinates on screen (as determined by control tablet/hardware).		
g. Control app. shall include ability to power down camera when closing the app.		
h. Control app. shall be able to share inspections via WinCan Web with wireless download.		

	Exception	
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4. System Hardware		
a. Extendable pole with maximum 24' length and ability to add pole extensions.		
b. Pole shall be stabilized by included bipod for hands-free operation.		
c. Camera standoff pole shall include gas spring with reciprocating ratchet for ease of positioning camera in 6" to 48" pipes.		