Envirosight LLC
SPECIALISTS IN PIPELINE INSPECTION

Headquarters

111 Canfield Ave., Unit A14
Randolph, NJ 07869

Toll Free: *866.9ENVIRO (936.8476)*
Direct: *973.252.6700*
Fax: *973.252.1176*

Specification: Push camera with color self-leveling camera and digital video storage..

	Yes	No
1. **Cart cable reel assembly** (standard 200')		
a. Cable reel assembly must be rated to IP54 to ensure protection of the equipment during use.	☐	☐
b. Cable to be made of fiberglass epoxy rod with Kevlar strength layer. Abrasion- and water-resistant high-impact copolymer outer sheath to be rated for 4000-lb nominal breaking strain.	☐	☐
c. Interface between cable termination and spring assembly is to be sealed with industrial-strength epoxy. Dry fit connection will be deemed unacceptable.	☐	☐
d. Cable diameter shall be 12mm.	☐	☐
e. Standard cart assembly shall be made of powder coated steel.	☐	☐
f. Cart height should not exceed 38".	☐	☐
g. Interconnect lead from reel to control module shall be 3' long with optional 30' lead if required.	☐	☐
h. Complete cable reel assembly shall weigh no more that 45 lbs.	☐	☐
i. Integral transmitting coil shall have the ability to transmit three frequencies that are selectable from the control module. 512khz, 33khz, 640khz.	☐	☐
2. **Mini cable reel assembly** (optional 130')		
a. Cable reel assembly must be rated IP54 to ensure protection of the equipment during use.	☐	☐
b. Cable to be made of fiberglass epoxy rod with Kevlar strength layer. Abrasion- and water-resistant high-impact copolymer outer sheath to be rated for 4000-lb nominal breaking strain.	☐	☐
c. Interface between cable termination and spring assembly is to be sealed with industrial-strength epoxy. Dry fit connection will be deemed unacceptable.	☐	☐
d. Cable diameter shall be 12mm.	☐	☐
e. Mini reel shall be made of powder coated steel.	☐	☐

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	Yes	No
f. Mini reel height shall not exceed 25”.	☐	☐
g. Interconnect lead from reel to control module shall be 3’ long with optional 30’ lead if required.	☐	☐
h. Complete cable assembly shall weigh no more than 33 lbs.	☐	☐
i. Integral transmitting coil shall have the ability to transmit three frequencies that are selectable from the control module.	☐	☐
3. **Large cable reel assembly** (optional 330’)		
a. Cable reel assembly must be rated IP54 to ensure protection of the equipment during use.	☐	☐
b. Cable to be made of fiberglass epoxy rod with Kevlar strength layer. Abrasion- and water-resistant high-impact copolymer outer sheath to be rated for 4000-lb nominal breaking strain.	☐	☐
c. Interface between cable termination and spring assembly is to be sealed with industrial-strength epoxy. Dry fit connection will be deemed unacceptable.	☐	☐
d. Cable diameter shall be 12mm. Cable length shall be 330 ft.	☐	☐
e. Reel frame shall be made of powder coated steel with heavy-duty wheels and anti-lurch feet.	☐	☐
f. Reel height shall not exceed 38”.	☐	☐
g. Interconnect lead from reel to control module shall be 12’ long with optional 25’ lead if required.	☐	☐
h. Complete cable assembly shall weigh no more than 66 lbs.	☐	☐
i. Integral transmitting coil shall have the ability to transmit three frequencies that are selectable from the control module.	☐	☐
4. **Self-leveling color camera head** (standard for standard/large systems)		
a. Camera head shall be waterproof to 6 bar.	☐	☐
b. Camera head diameter not to exceed 1.62 in diameter.	☐	☐
c. Camera head shall weigh no more than 0.86 lb.	☐	☐

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	Yes	No
d. Camera housing shall be made of stainless steel.	☐	☐
e. Front lens of camera shall be made of industrial sapphire.	☐	☐
f. Camera shall be removable from cable reel with a single purpose-built spanner.	☐	☐
g. Camera shall have resolution of 420 HTVL and sensitivity of 1.0 lux.	☐	☐
h. Camera view shall be illuminated by 27 LEDs.	☐	☐
i. 3 skids for centering in 4, 6, 8” diameter pipe shall be supplied as standard.	☐	☐
j. Camera housing shall be made of stainless steel.	☐	☐
k. Front lens of camera shall be made of industrial sapphire.	☐	☐
l. Camera shall be removable from cable reel with a single purpose-built spanner.	☐	☐
5. Inspection Viewer/Recorder with Text Overlay and WinCan-compatible Defect Reporting		
a. Video must be displayed on an 8” TFT LCD with 800 x 600 pixel resolution.	☐	☐
b. Video must be recorded to internal memory of 16GB, expandable to 128GB.	☐	☐
c. Video must be recorded in MPEG-4 format for maximum compatibility.	☐	☐
d. System must have a 3X digital zoom function that can be used on both live and recorded video.	☐	☐
e. System must allow capture of still images from live or recorded video.	☐	☐
f. Still images must be captured in JPEG format for maximum compatibility.	☐	☐
g. System firmware must present thumbnail gallery for easy navigation of stored video and still images.	☐	☐
h. System must have internal 16-page color text writer to allow annotation of captured video.	☐	☐

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		Yes	No
i.	System must have integral QWERTY keyboard with function and navigation keys for entry of data into text writer and defect reporting.	☐	☐
j.	System must have user-configurable drop-down menu system for optimum ease-of-use.	☐	☐
k.	System must accept encoder input for onscreen display of distance in either feet or meters.	☐	☐
l.	System must allow identification and classification of defects per PACP and WRc standards.	☐	☐
m.	System must store and export defect records (along with corresponding video and images) directly to WinCan software.	☐	☐
n.	Onboard memory must be durable solid-state RAM (not fragile hard disk drive).	☐	☐
o.	System must have USB 2.0 memory stick port for transfer of video, images and WinCan-compatible inspection observations.	☐	☐
p.	System must have SD/SDHC card slot for transfer of video, images and WinCan-compatible inspection observations.	☐	☐
q.	System must have internal Li-ion battery allowing 6 hours of continuous operation.	☐	☐
r.	Battery must be rechargeable via both mains (110-240 Vac) and vehicle power (12 Vdc).	☐	☐
s.	System must weight no more than 7 lb.	☐	☐
t.	System must be no larger than 17.13”(w) x 9.85”(h) x 5.51”(d).	☐	☐
u.	System must be housed in a weatherproof composite case with IP65 environmental rating.	☐	☐