



HI-DEF PTZx™

High-Definition Visual Inspection. Pan. Tilt. Zoom.

HI-DEF 3.0 Remote Visual Inspection Tool

Sensor Networks, Inc (SNI) introduces a new Full High-Definition (HDTV) 3 inch (75mm) diameter version of its field-hardened, rugged, waterproof and reliable Pan-Tilt-Zoom industrial video inspection camera system.

With cable lengths up to 500 feet, and available with either a compact CCU or an integral cable reel CCU, Hi-Def 3.0 also features 1080p video resolution that is ~6 times better than that of conventional CCTV video. Full HD image resolution provides for practical digital zooming without pixilation.

- Aircraft engine assembly and test cells
- Large-diameter pipes, tanks & vessels
- Nuclear reactor vessel, nozzles and internals
- Nuclear fuel, spent-fuel pools, refueling operations
- Steam generator primary-side and secondary-side inspections
- Plastic-, glass-, refractory-lined, and stainless-clad vessels
- Catalyst vessels and tray towers



Unrivaled Inspection

Integrated System



Modular System

Joystick-controlled, variable-speed 270-deg tilt angle & 360-deg pan rotation

Corrosion-resistant, anodized aluminum with stainless-steel construction

Submersible to 100 ft (30m) of water

Integral dimmable white LEDs

10x optical zoom lens

Full-HD (1920x1080p) camera with light sensitivity control for reflective surfaces

Optional sunlight-viewable 7-inch display or display with recorder (shown)

Hi-Def 3.0 specs

video

optical/digital zoom	10X / 12X
effective pixels	2.13 MP
sensitivity	0.5 lux
HFOV	W 54° / T 4.9°
minimum focus	W 0.01m / T 1.0m

controls

pan/tilt	±180° / ±135°
zoom/focus	variable speed
light sensitivity	±7 steps

lighting

integral LEDs dimmable	1500 lumens
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weight

head weight	2.4 lbs (1.1Kg)
system weight (reel & 100 ft cable)	23.7 lbs (10.7Kg)

environment

temperature	14°F (-10°C) to 120°F (49°C)
pressure rating	44 psi / 100 ft (30 m) depth
purgeable	up to 10 psi (.7 bar)
cable length	up to 500 ft (150m)
material	aluminum, stainless steel
portability	single case, one-hand carry
radiation (1.25MeV)	50,000 RAD

system features

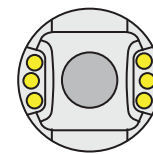
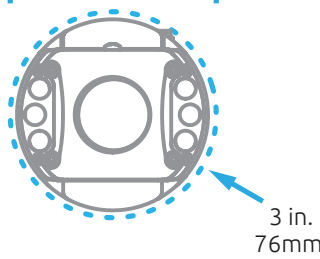
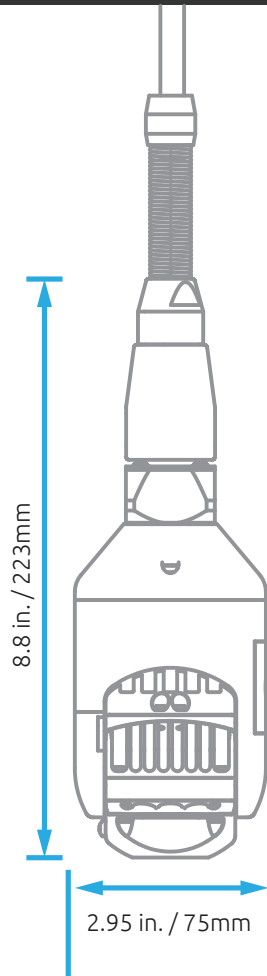
image overlay with keyboard	time, date, position temperature, pressure humidity, image title
image effects	flip, freeze, long exposure digital zoom
home position	saved pan-tilt-zoom position

interface

video	2 HDMI Ports
accessory power	12 VDC
system power	100-240 VAC 4 amp, 50/60 Hz

additional accessories

- tank flange mount
- pole camera adapter
- 7-inch HD monitor
- lowering pole
- shipping cases
- HD recorder



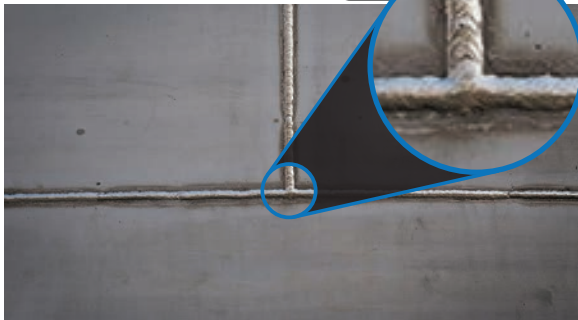
1500 lumens

spot 15°

flood 60°

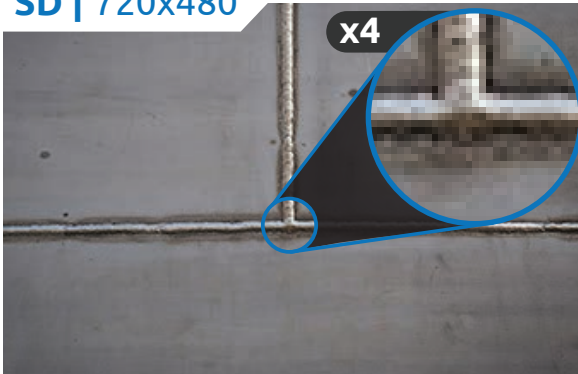
HD | 1920x1080

x4



SD | 720x480

x4



Hi-Def 3.0

HDTV - 1080p (1920 x 1080)

HDTV - 720p (1280 x 720)

NTSC DVD
(720 x 480)

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