



Digging deep to see a better solution: The capabilities of SNI's HI-DEF PTZx in the mining industry

As members of a multi-billion-dollar industry, there is immense pressure on mining companies to protect their assets. If an accident would occur, and a company would be forced into downtime, it could result in millions lost in revenue. Monetary losses are not the only ones at stake, however. If an accident would occur at a mining facility, employees' lives could also be at risk. Such high stakes require mining sites to be regularly maintained and monitored.

Knowing the difficulties and obstacles that come with inspecting large, confined spaces such as underground mines, SNI has crafted its Hi-Def PTZ3.0 to meet the needs of such inspections. The small, visual inspection device is a portable,

Pan-Tilt-Zoom HD video inspection system loaded with the features necessary to inspect large, confined spaces.

When used in the setting of a mine, the Hi-Def PTZ3.0 offers the high-quality video and advanced lighting capabilities needed to properly execute various inspection applications such as underground voids and mine shafts.

To look at the structural integrity of voids in an active mine, the Hi-Def PTZ3.0 can be inserted through an opening 3-inches or larger in diameter. It can then be lowered to depths of 500ft and be used to look for any sign of internal damage that could cause a collapse due to large vehicles and machinery overhead. When examining mine shafts, the inspection device can be used in the same way.

What the Hi-Def PTZ3.0 offers that most standard RVI devices do not, is high quality video output in a small, compact system. Offering more lumens than a standard RVI device, 1080P video, and a sub-3-inch camera, the lighting and picture quality on the Hi-Def PTZ3.0 can save inspectors time. The enhanced lighting on the device highlights deformities and makes it quicker and easier to classify them, especially in a dark underground setting such as a mine.

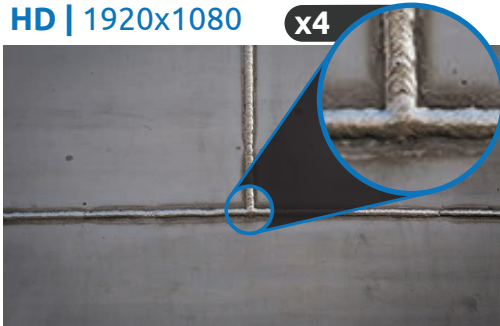
The Hi-Def PTZ3.0 offers an innovative RVI solution to mine inspection that can ensure the safety of Mining Companies' employees and their equipment – saving lives and company funds.



SNI offers three different camera heads for the HI-DEF PTZx.
The 3" camera will easily navigate a hole three inches or greater.

HD | 1920x1080

x4



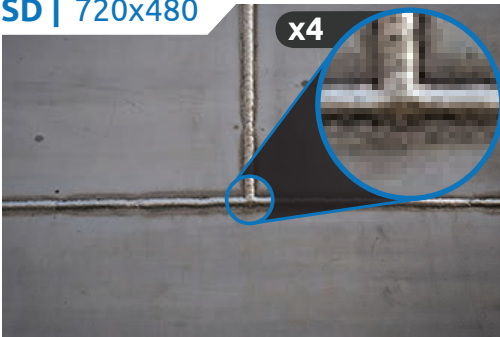
Joystick-controlled, variable-speed 270-deg tilt angle & 360-deg pan rotation

Integral dimmable white LEDs and 10x opticle zoom

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

SD | 720x480

x4



Corrosion-resistant, anodized aluminum with stainless-steel construction

Optional sunlight-viewable 7-inch display or display with recorder

Cable length of 50ft ft and submersible to 100 ft (30m) of water

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

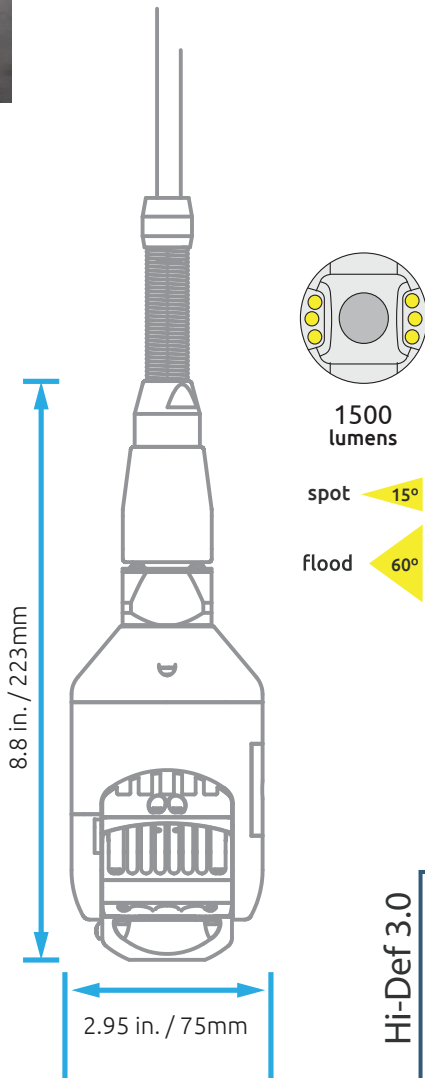
image overlay with keyboard	time, date, position temperature, pressure humidity, image title
image effects	flip, freeze, long exposure digital zoom
home position	saved pan-tilt-zoom position

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



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 lb (1.1Kg)
system weight (reel & 150 ft cable)	25.0 lb (11.4Kg)

Hi-Def 3.0

HDTV - 1080p (1920 x 1080)

HDTV - 720p (1280 x 720)

NTSC DVD
(720 x 480)