

PUMP STATION™



Product Overview

RVision's Pump Station™ consists of the SEE™ all weather, day/night pan/ tilt/ zoom camera and the PUMP™ encoder. Together, providing network streaming, command, control and security in harsh environments where communication and power resources are challenged. The two are attached with a 'QuickDisconnect' mount and together provide the best clarity and image fidelity that can be streamed to a server or over a private network with MPEG 1 or 2.

Both the SEE™ and the PUMP™ are lightweight, compact, and low power. Well suited for both solar and wireless applications. Each unit is ready for integration with legacy CCTV systems and many video management software solutions. Pictured is the optional Halogen Illuminator, attached directly to the camera, for additional surveillance at night. For OEM customers, *RVision*™ offers engineering change revisions to best support client solutions.

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Key Features:

- Rugged and compact **network camera system**.
- **MPEG1 or MPEG2** at 30 fps with a range of bandwidth from 200 to 15,000 kbps.
- **Latency - 0.5 sec.**
- Optional **Wireless 802.11b** supports Wi-Fi Applications.
- **Color/NIR** - video imaging modes.
- **25X Optical / 12X Digital zoom**
- **'Tough as nails'** solid cast aluminum housing can withstand harsh environments.
- **Image Stabilization** is built in so vibration does not affect the streamed video.
- **Compact and Lightweight** compared to the competition.
- **Hot Swappable** - means that there is no need to power the camera down to change it out.
- **QuickDisconnect** - lets you install, replace or maintain the camera in a fraction of the time of most cameras, with single key tool.
- **Low Power** makes SEE™ suitable for solar power applications.
- **Optional Hood** protects lens from the elements.
- Pressurized **Nitrogen** eliminates fogging of the camera lens due to sudden changes in temperature.

SPECS

SEE

Pan Angle Range	440°
Tilt Angle Range	240°
Pan Speed	.5° to 80° /s
Tilt Speed	.3° to 30° /s
Pan/Tilt Encoder Resolution	.5°
Weight	4.5 Kg
Housing Material	Cast Aluminum
Size	18 cm diameter 20 cm tall
Power	11.5 to 30vdc 500 ma, 2A peak
Vibration	3grms 3axis Random 5 to 1000 Hz
Temperature	-20° to 70° C
Mounting	QuickDisconnect™
Leveling	Mount Adjustment
Optical Zoom	25 x
Digital Zoom	12 x
Imaging Modes	Color/Near Infrared
TV Lines (NTSC/PAL)	470/460
PEL Count (NTSC/PAL)	680,000/800,000
Dynamic Range	49 dB
Light Sensitivity	.02 Lux NIR Mode
Low Light – Long Integration	yes – .25 s
AutoFocus	yes
Image Stabilization	yes
Rich Exposure Control	yes
Time Stamp/Titling in Video	yes
Command/Control:	
Transport Protocol	RS232 or RS485 Enhanced VISCA™
Detector Sensor Inputs	2, NO or NC
Opt. Infrared Camera Core	7-14µm, .05°C NETD 320 x 240
Opt. Illuminator	720nm, 50W, 4° Spot

PUMP

Video Format	NTSC or PAL
Encoding:	Composite
MPEG1	100 to 15,000 kbps CIF (352x240) 30 fps
MPEG2	300 to 10,000 kbps VGA (702x480) 29.5 fps
Latency	<.5 s + 'hops'
Command/Control	UDP/TCP/IP
Weight	2.0 Kg
Housing Material	Cast Aluminum
Size	11 x 13 x 5 cm
Power	11.5 to 30 vdc 800 mA
Vibration	3grms 3axis Random, 5-1000 Hz
Temperature	-20° to 70° C
Operating System	Embedded Linux
Network Layer	RTP/RTSP/none
Physical Layer:	
LAN	100BaseTx
Wireless	802.11b - Oronoco

