

# NovaSTAR Zoom Camera

## *Changing the Way You Inspect Pipelines*

RS Technical Services adds the NovaSTAR to the family of Mainline color cameras. The NovaSTAR maintains the notable RS Technical Services reputation for innovative technology, utilizing high-resolution video, and total zoom capabilities. The NovaSTAR is compatible with all of the RS Technical transporters, including the TranSTAR for small lines, and the Steerable Storm Drain Tractor for large line inspections.



### *Operating Environment*

The NovaSTAR is designed to operate in wet environments, such as sanitary sewers and storm drains, while mounted on tractor transporters or pull skids. The compact size of this camera makes it the ideal solution for the RS Technical Services crawler series TranSTAR transporter. In addition, it is capable of operating on up to 2,500' of double-armored, single conductor or multi-conductor cable.

### *Features*

- High-resolution video with total zoom capabilities of 40X: 10X optical and 4X digital. Zoom features include manual or continuous auto focus, manual or continuous auto iris and adjustable shutter speed for improved low light performance.
- Integrated pan and tilt head with built-in Ultra-high Bright LED lights.
- Fully-adjustable LED lights from off to full intensity.
- In highly-reflective conditions, the camera is fully functional with the lights turned off.
- Camera head swing and rotation, lamp intensity and zoom features are remotely controlled and adjustable from the operating viewing station or at the cable reel.
- Programmable pan and rotate functions.
- Return the camera head to the straight-ahead and centered position with the Home Function.
- Accessories include maintenance kit with replacement parts, durable foam lined storage and transportation case and operation and installation manuals.
- Available options include PAL format and an inclinometer function.

*Note: See your distributor for other available options.*

*Approval by an N.R.T.L. (Nationally Recognized Testing Laboratory) as "Labeled and Listed" is pending.*



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*Reliability  
Satisfaction  
Technology's Leading Edge*

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## PERFORMANCE

Pipeline Size	6" - 30"
Recommended Maximum Pipe Length	2,500' (depending upon pipe condition)
CCD Sensor Sensitivity	2-lux nominal; minimum sensitivity is 0.2 lux adjusted for reduced shutter speed
Field Of View	70-degree diagonal
Resolution	470 TV lines horizontal, NTSC Color

## ENVIRONMENTAL OPERATING CONDITIONS

Operating Environment	Approved for use in wet or dry conditions Waterproof per 1PX60
Ambient Temperature Range	0° - 40°C

## TECHNICAL CAMERA DATA

Camera	Color, zoom, pan and tilt head, 330-degree axle rotation, 270-degree lateral swing for a 360 degree viewing of lateral connections
Voltage	90-130 VDC from controller
Circuitry	Solid-state
Lens Cover	Optical grade Sapphire camera lens cover
Camera Module Features	Backlight, freeze frame, auto/manual adjustable iris, focus
Digital Zoom Camera Features	10x Zoom f= 4.2 mm (f1.8 to f2.9) 4x digital zoom beyond the 10x optical for a total zoom capability of 40x.
CCD Image Sensor	1/3 type IT; Total of 379,000 pixels producing 1-volt video signal after transmission through up to 2,500' of double armored single conductor cable.
Lighting	54 High-intensity white LED lamps

## POWER REQUIREMENTS

Operating Power	90 - 130 VDC at 0.25 amp
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## PHYSICAL INFORMATION

Diameter	2.6" maximum
Length	17"
Weight	10 lbs.
Cable Capacity	up to 2,500' of double-armored, single conductor or multi-conductor cable
Material	Hard Black Anodized Aircraft Milspec 6061 aluminum

## COMPATIBLE/OPTIONAL EQUIPMENT

Additional camera lighting	Mainline crawler transporter
TransStar wheeled transporter	Steerable Storm Drain Tractor
Standard wheeled tractor transport vehicle	6"- 72" mainline pull skid set

