Tin Bath Periscope System

A durable and rugged, high-temperature remote viewing video camera system designed specifically for the float glass process

Backed by over eighty years of experience, the Lenox Tin Bath Periscope System is designed to provide real time, high-resolution images in the tin bath environment. A specially designed and proven water-jacketed lens assembly enables operation in this hostile environment.

Join float glass manufacturers like AFG, Cardinal, Pilkington, and PPG that are using the Lenox Tin Bath Periscope System to monitor and record the amount of trim being produced, wheel depth and tracking, and the functioning of the automated drive system (top knurl wheels) - helping to reduce scrap by insuring ribbon integrity and improving overall process efficiency.
Standard System includes:

Lens system and water jacket
- 2.5” O.D. by 10’- 6” working length & right angle direction of view
- 30-degree field of view
- Installed temperature sensor to monitor temperature at the lens objective
- High flow water shroud with mounting flange and nitrogen purge

Camera Housing
- Rugged protective enclosure provides interface with water jacket
- Camera mounting assembly with slide plate for focusing
- Video, electrical and temperature sensor output connections

CCD black & white camera
- 570-line horizontal resolution for maximum contrast and resolution

Optional Accessories:

Monorail insertion / retraction assembly
- Manually operated – wall mountable with ceiling supports

CCD color camera with 480-line horizontal resolution

Black & white and color 12”, 17” and 20” monitors

Video / Digital image recording to capture and store images for documentation

Monorail Insertion / Retraction Assembly

The optional monorail assembly includes a reinforced monorail track for mounting to the tin bath. The periscope is coupled to a trolley assembly by way of two mounting sleeves.

Periscope Water and Air Connections

Lens cooling / purging requirements:
Instrument quality with flow rate of 3 SCFM

Water- cooling requirements:
Water pressure rates of 20 – 30 PSIG provides flow rates of 25 – 32.5 GPM