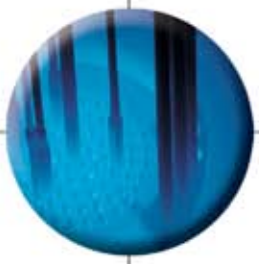


BEDBUG® *III*
SMELT BED IMAGING SYSTEMS

QUADTEK *M340 Bedbug III*

High Temperature Solid State Camera

Features/Benefits

- Solid state IR sensor guarantees no picture degradation or image burn
- 80° field of view lens in several lengths
- Small front opening and improved seal reduces air usage and keeps lens cleaner
- Sapphire window more durable and scratch resistant than other materials
- Minimal preventative maintenance

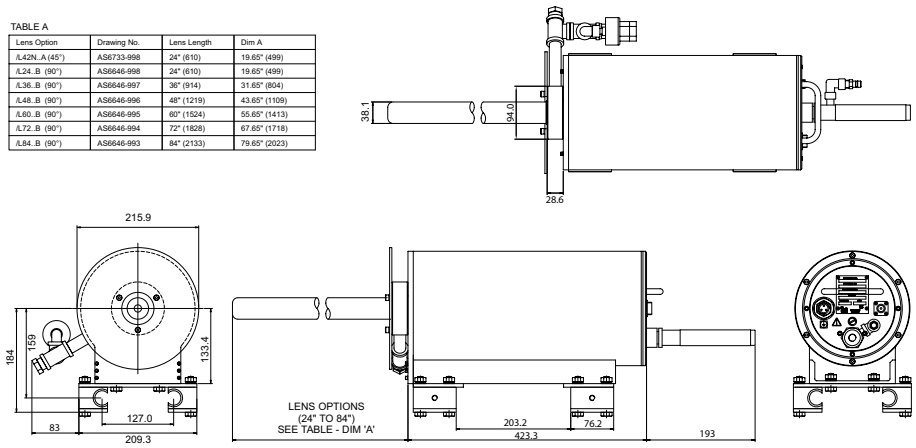
The Quadtek **Bedbug III** High-Temperature Camera from IST is a remote observation system which utilizes a solid state IR device to monitor the smeltbed in recovery boilers, monitor slag buildup in utility power boilers, and monitor product distribution and control, as well as burner efficiency in industrial process furnaces. Install it today and years from now, you'll still have the same quality picture.

QUADTEK M340 Bedbug III

Specifications and Performance

TABLE A

Lens Option	Drawing No.	Lens Length	Dim A
/L42N..A (45°)	AS8733-998	24" (610)	19.65" (499)
/L24..B (90°)	AS8646-998	24" (610)	19.65" (499)
/L36..B (90°)	AS8646-997	36" (914)	31.65" (804)
/L48..B (90°)	AS8646-996	48" (1219)	43.65" (1109)
/L60..B (90°)	AS8646-995	60" (1524)	55.65" (1413)
/L72..B (90°)	AS8646-994	72" (1828)	67.65" (1718)
/L84..B (90°)	AS8646-993	84" (2133)	79.65" (2023)



Camera

Power Requirements.....100/115/230 VAC, 50/60 Hz, 24 Watts

Camera.....Solid state IR sensor

Signal to Noise.....55 db or higher

Video Output.....Monochrome EIA RS-170, 525 lines or CCIR, 625 lines, composite video output and sync; 1.0 to 1.4 V p-p

Pyrometer Detector.....**/0P** option: Solid state 1.6 micron detector 1165 to 2700°F (629 to 1482°C), multiplexed with video. Requires M702 processor

Lens

Construction.....Air-cooled 304 stainless steel outer shroud. Sapphire window for max. environmental protection

Lengths.....Standard:
/L24: L=21.25" (540mm)
/L48: L=45.25" (1149mm)

Field of View.....80° horizontal, 60° vertical

Diameter.....1.5" (38mm)

Optical Filter.....Particulate-penetrating proprietary infrared filter

Cooling Requirements.....Instrument-quality air*, 15-20 SCFM @ 5-10 psig typical (7-10 dm3/sec @ 35-70 kPa)

*Air quality to ISO 8573-1, Class 1•7•2

Enclosure

Construction.....Corrosion-resistant nylon cover; anodized aluminum body; NEMA 4, dust and water proof

Cooling Type.....Vortex cooled; instrument-quality air; 25 SCFM @ 100 psig typical (13 dm3/sec @ 690 kPa)

Ambient Environment.....32° to 140°F (0° to 60°C) operating temperature

Mechanical

Focus Adjustment.....Optical focus adjustment screw located on back of enclosure

Video Output Jack.....Female PL-259 "UHF" type

Power Input Jack.....Removable waterproof miniplug (JOY type TP, female 3-conductor; mating power cord provided)

Enclosure Cooling Input.....1/4" brass quick-disconnect nipple; mating coupler (Snaptite BVHC4-4F) provided

Lens Cooling Input.....1/2" brass quick-disconnect nipple; mating coupler (Snaptite BVHC8-8F) provided

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