

VENTUS II

QUADTEK VENTUS Series

R640 High Temperature Camera Water Cooled, Air Purged



Features

- Designed for continuous operation in temperatures up to 1750°C (3182°F)
- Water cooled, air purged
- High resolution color video pictures
- Manual iris; remote controlled iris available
- Wide angled viewing
- Thermocouple over temperature sensing
- Ported viewing nozzle
- Refractory Fire Brick front probe protection
- Stainless steel construction

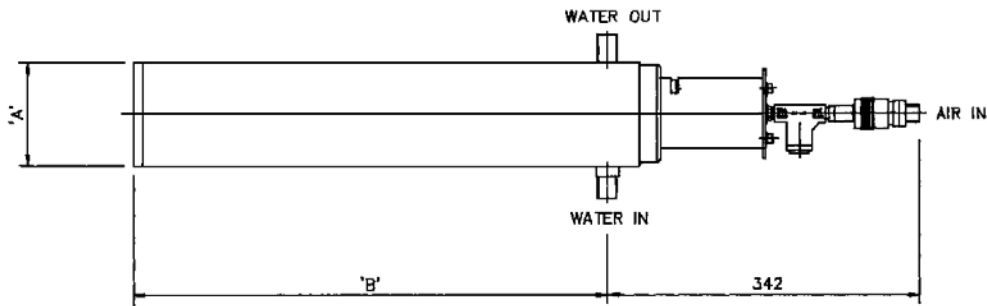
Applications

- Steel Furnace Viewing, Manufacture and Shaping
- Glass Tank Viewing
- Cement Kiln Viewing
- Pulp and Paper Industry

Designed for continuous operation in temperatures up to 1750°C, the **VENTUS R640** Water Cooled Camera uses the latest technology to provide color television pictures of high temperature processes. Specifically designed for Steel Furnace, Cement Kiln and Glass Tank viewing applications.

QUADTEK VENTUS Series

Specifications and Performance



Camera

Type	1/2" interline transfer CCD
Video output	Composite 1 volt P.P. 75 ohm (optional Y/C setting)
Iris	Electronic CCD iris
Signal system	PAL or NTSC
Resolution	380 TV lines (460 in Y/C)
Electrical supply	12V dc 3.5W from control system

Optics

Format	Half inch format, pinhole lens		
Lens focal length	4.0mm		
Aperture	f/2.5		
Angle of view	Diagonal	90°	
	Horizontal	77°	
	Vertical	62°	
Iris	Manual iris; remotely adjustable option available		
Motorized Iris Option	R600KTA03A		
Camera casing	BS 970 type 310 531 high tempera- ture stainless steel		
Dimension	R640VHA	R640VHB	R640VHC
A	ø115mm (4.53")	ø115mm (4.53")	ø115mm (4.53")
B	518mm (20.4")	718mm (28.3")	1214mm (47.8")
Dry Weight	19kg (41.9lbs)	26kg (50.3lbs)	44kg (97lbs)
Wet Weight	23kg (50.7lbs)	32kg (70.5lbs)	54kg (119lbs)
Temperature sensor	K type mineral insulated thermocouple		

Cooling System

Type	Water cooled air purged
Camera temperature	1750°C (3182°F)

Cooling Water Supply

Quality	Clean/Sediment-free
Supply pressure	4 bar
Regulated pressure	2 bar*
Flow rate	15 liters (4 gal.) per minute
Temperature	35°C (95°F) (typically)
PH Value	6 to 8

*Depending on installation and operating temperature

Compressed Air (dry, oil-free air)

Compressed Air Supply	2 to 4 bar @ 20°C (68°F)
Quality	ISO 8573-1 Class 1•7•2

Control Equipment & System Accessories

Gimbal mounting flange	R640MFA03A
Camera Cable (5m)	R600CAB03A
Camera cooling hose (5m)	R600CHA03A
Filtering system	GAS.00160 40µm coalescing with shut off valve, pressure relieving regulator and manual drain filter
Standard control system	R600CIA03A and R600CBA03A (or R600CBB03A) or R600CBD03A
Retraction control system	R600RCA03A, R600CBA03A and R640RTC03A or R640RTD03A and R600FPA03A

Please refer to control system data sheets.

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