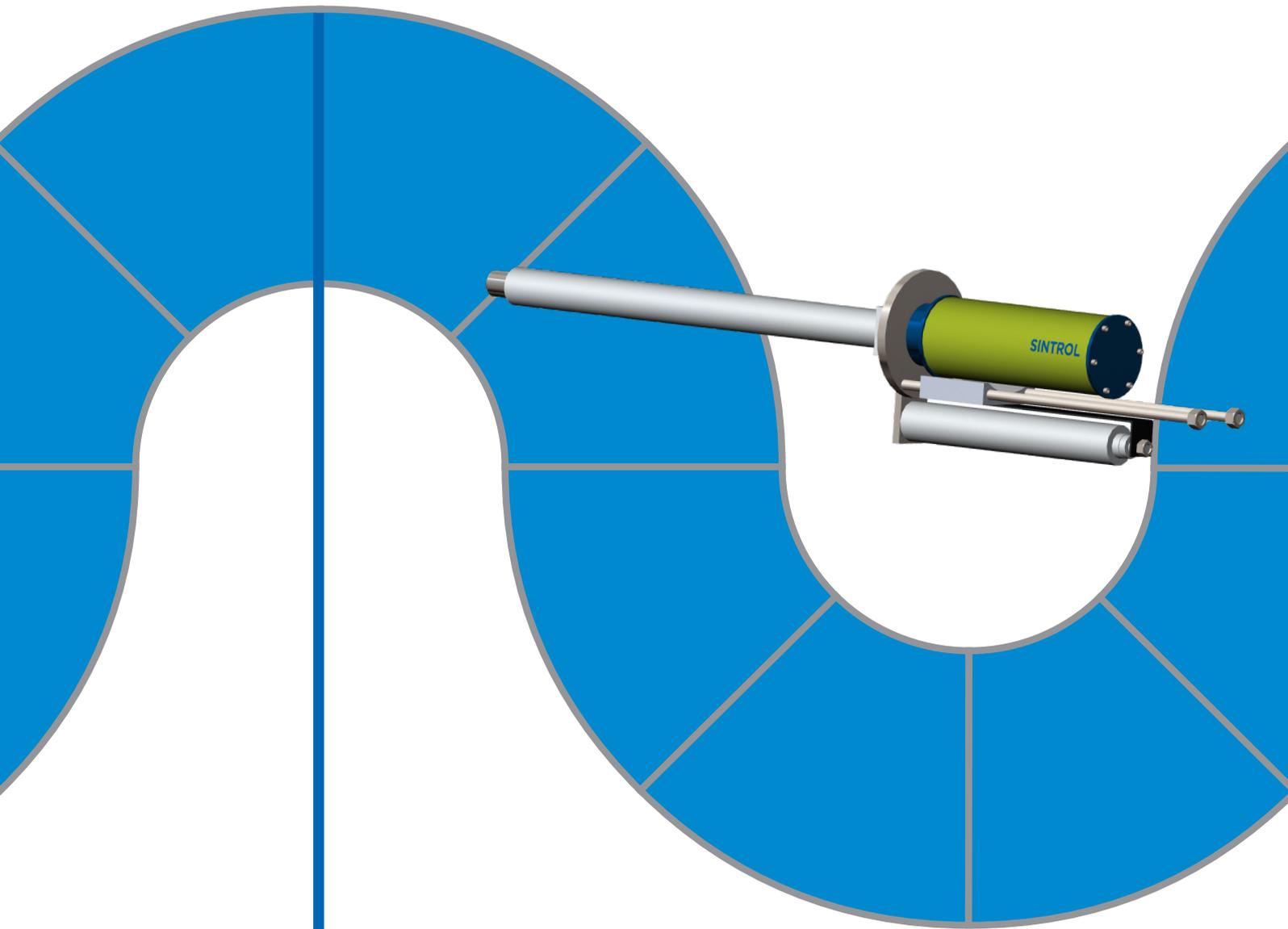


PRODUCT BROCHURE

# SINTROL VULCAN12C-2C

## High Temperature Imaging System



VULCAN12C-2C - Lime Kilns Monitoring

Pyro-Viper-HD -Software

 **CuraTerra**

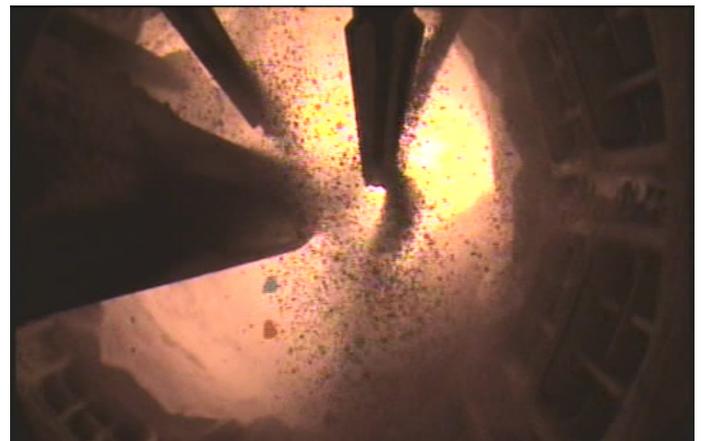
# Sintrol Vulcan12C-2C

## The Most Advanced Imaging System for Lime Kilns

- High Temperature Imaging System for kilns monitoring
- Reduced emissions by improving performance
- Allows multiple cameras/detectors operating in different spectral wavebands to share a common furnace lens
- Helps maximize efficiency and capacity by showing fuel and air flow in the burning zone inside the kiln in color video
- Allows utilization of a broad spectrum from visible light to mid-wave infrared on a common optical path
- Helps reduce build-up resulting in fewer shutdowns and lower maintenance cost
- Helps in shaping and positioning clinker
- Typically used in conjunction with Pyro-Viper-HD -software

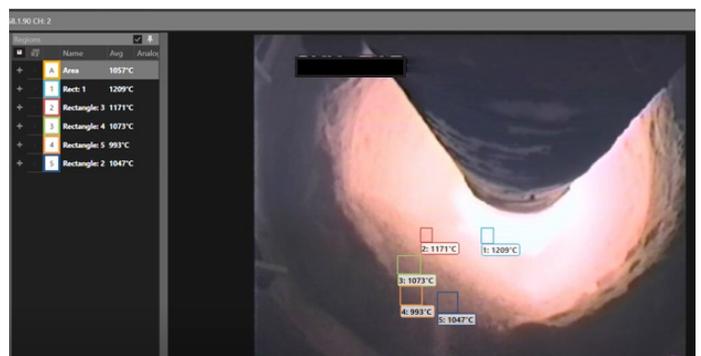
### System Features

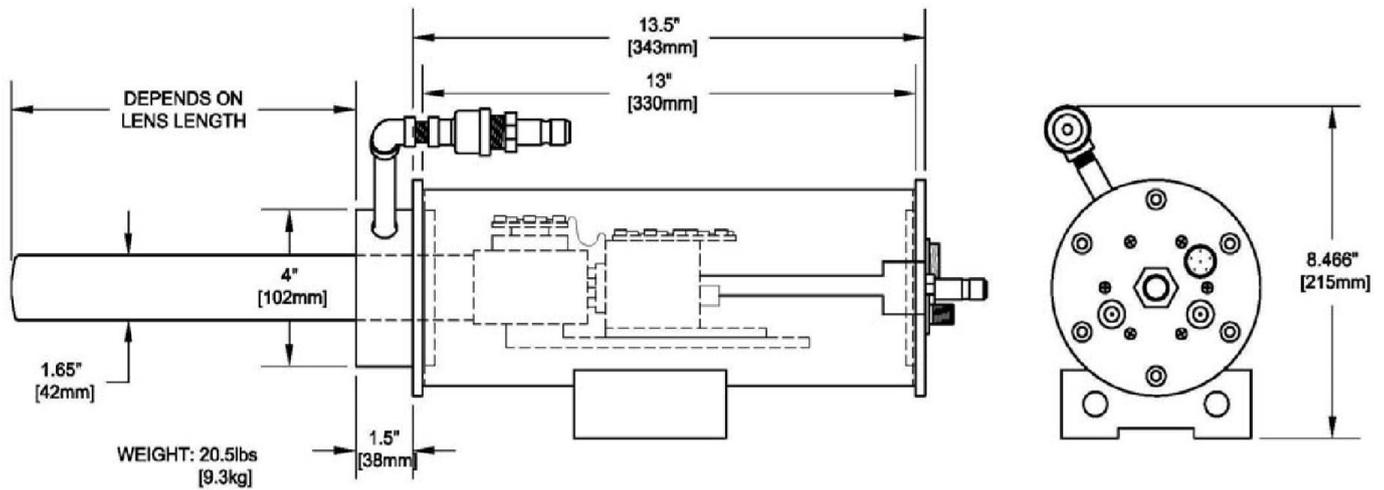
- Quick-change system design for easy installation and maintenance
- Proprietary Bright Image Optical System for sharp images
- Wavelength optimized electro/optical system
- Indestructible STEELON™ housings to protect electronic components
- Advanced lens design for low air consumption
- Wide field of view and easy assembly/disassembly
- High performance, ruggedized imagers for increased durability



### System Options

- Radiometric camera with an image processing and analysis software for temperature measurement, image processing and data management
- Balanced draft and positive pressure wall boxes for permanent/semi-permanent installation
- Automatic retract assemblies
- Portable system configuration and cart assembly for diagnostics and testing
- Air filtration systems
- Digital recorders, monitors, switchers and other video equipment
- Fiber optic, coax, Ethernet, or wireless video/data transmission





Product Name		Sintrol Vulcan12C-2C	
System Includes	<ul style="list-style-type: none"> <li>High resolution CCD sensor with integrated 2D radiometer for dual wavelength pyrometry</li> <li>Air cooled stainless steel furnace lens (wavelength optimized)</li> <li>Quick change lens system</li> <li>High temperature camera housing (IP66) with slide trac mount</li> <li>Quick change back plate</li> <li>12 VDC power supplies with NEMA 4X enclosure and 4.6m (15 ft.) cords</li> <li>Regulator assembly with 2 ea. 4.6m (15') quick disconnect air lines</li> <li>Factory assembled, pre-adjusted and ready for installation</li> </ul>		
<b>Camera</b>	<b>Primary</b>	<b>Secondary</b>	
Sensor	CCD	Solid State IR (.8 to 1.3 $\mu\text{m}$ )	
Resolution	768 x 494 (Standard)	640 x 480 1280 x 1060 (Hi Def)	
SNR	Greater than 50 dB	Greater than 50 dB	
Power	12 VDC with 100-240 VAC adapter – 50/60Hz		
<b>Available Lenses</b>			
Overall length	<ul style="list-style-type: none"> <li>61, 91, 122cm. (24", 36", 48") Straight Ahead Line of Sight Lens</li> <li>61, 91, 122cm. (24", 36", 48") Obtuse and Right Angle Line of Sight</li> </ul>		
Diameter	42mm (1.650")		
Field of view	See Lens Selection Guide		
Line of Sight	Straight ahead (standard), Obtuse and Right Angle (optional)		
Temperature	Scenes being monitored to 3500° F (1927° C)		
Air purge	0.10 MPa (1bar) @ 20 scfm (34 m <sup>3</sup> /Hr) - straight ahead line of sight lens		
<b>Instrument quality air only T&lt;100°F (40°C)</b>			
<b>Enclosure</b>			
Material	PHASE III = STEELON™ (stainless steel over high temperature synthetic)		
Temperature	Ambient temperatures to 289° C (550° F)		
Air purge	0.02 MPa (0,2 bar) @ 3 scfm (5.1 m <sup>3</sup> /H)		
<b>Options and Accessories include</b>	<ul style="list-style-type: none"> <li>SAM0007-XX or SAM0012-XX wallbox mount</li> <li>SAM0009 or SAM0028 air filtration system</li> <li>MSS0010C automatic retract</li> <li>Video recording and Video monitor</li> <li>Coaxial cable, fiber optic, transmission system</li> <li>PYROVIPER™ thermal imaging software</li> <li>Quickchange Lens</li> </ul>		

