

Iris Power RIV Camera System

Rotor-in-Place Visual Inspection of Rotating Machines

The Iris Power RIV Camera System Type 752 provides a flexible system for Rotor-in-Place inspections of large generators. It is fitted to the Iris Power Robotic Inspection Vehicle™ which can be moved along the stator slots. The camera system includes an integral light. The camera and light are directed at a 45° mirror, which can be remotely rotated through 360° to allow scanning of the stator or rotor as well as looking forward along the air-gap. The camera can also be focused remotely. The system allows a visual inspection of the generator stator and rotor, including checking the air vents for debris, without removing the rotor. The video output is displayed on a 150 mm color TFT LCD integral monitor in the control unit. Composite video output is provided for feeding to a second monitor or video recorder.

- Visually inspect stator and rotor for defects and damage with rotor in place
- Focus on the stator core surface, stator air vents, or rotor surface
- Fits to the Robotic Inspection Vehicle for moving along stator slots
- Assists positioning for Rotor-in-Place wedge tightness testing
- Check for debris in the air-gap
- Built-in light source



FEATURES

- Low profile (30mm) allows rotor-in-place testing
- Scans image while conducting wedge tightness or other tests
- High resolution large bright image
- Display video on included monitor and record through video output
- Image can be adjusted for angle and focus

KIT CONTENTS

- Camera assembly
- Control unit
- Cable assembly
- Operations manual
- Rugged shipping case

IRIS POWER RIV CAMERA SYSTEM

SPECIFICATIONS*

CAMERA	
Pixels (H/V)	537 / 597 (PAL), 537 / 505 (NTSC)
Resolution	320 tv lines
Scanning System	2 : 1 interface
S/N Ratio	46 dB
Viewing Angle	51° x 40° (F3.8) Continuous rotation. Unobstructed external viewing angle approx 270° via mirror.
Sensitivity	5 LUX (F2.0)
Operating Temperature	-10° to +40°C
Focusing	Remotely operated via control unit
ILLUMINATION	
Location	Integral with camera assembly
Direction	Rotates to cover viewing angle
Lamps	Permanently wired white LEDs
Control Cable	Integral control and video signal cable between camera module and control unit. Length not critical (standard length 12m).
INTEGRAL MONITOR	
Type	Color TFT LCD, approx size 150 mm
Controls	Front panel, display automatically switched to required mirror image
POWER REQUIREMENTS	
Control Unit	85 – 264V, 50/60Hz, 50VA (Fuse 2A)
WEIGHT & DIMENSIONS	
Camera Dimensions	115mm x 50mm x 30mm
Camera Weight	200 g
Case Dimensions	37.1 x 25.8 x 15.2 cm 14.6 x 10.1 x 6.0 in
Kit Weight	9 kg
Standards	EN61010-1, EN61325,  marked

*Specifications are subject to change without notice

ORDER

PART #	DESCRIPTION
EL752	Camera System Type 752 including: rotating view color camera, control box with LCD monitor, and transit case. Customer to advise PAL or NTSC.

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