



Helitune

Engineering Rotortuner Solutions

General System Data Sheet

Mk2 Linescan Camera

Advanced BladeTip Tracking

Designed by Aircraft Engineers for Aircraft Engineers

Description

The Mk2 Linescan Camera is the latest version of the Helitune Linescan Camera. Its “plug and play” format means it can be used with all current Helitune RTB equipment. Tracking at the rotor blade tip and providing both height and lead/lag information ensures the operator gets a true image of the rotor blade tip path plane. Measuring at the tip also means there is no requirement to mount the camera underneath the path of the rotor blades. This provides the operator with the flexibility to operate the camera either externally or internally.

Utilising the latest advances in CCD and processing technology the Mk2 Linescan Camera provides many benefits to the operator. With the 10 bit image processing and the proprietary “find edge” filter the camera is able to intelligently determine the position of each blade tip and reject data that it considers to be unreliable. This allows the operator to make corrections based on consistent data.

Benefits

- More responsive in low light and ‘blue sky’ conditions
- Intelligent blade recognition software provides consistent data
- Tracks at the blade tip providing optimum information on blade
- Tip path and flexibility in operating position

Features

- 22 degree window hardware capability for fixed camera application, handheld firmware currently supports 7 degrees
- 10 bit image processing with latest DSP data acquired as a 1024 level grey scale image
- Self Diagnostic mode



Performance Data

Sensing Speed Range	60 to 1200 rpm
Height Accuracy	+/- 2.0 mm.
Lead/Lag Accuracy	+/- 3.0 mm
Indicators	7 Alignment LEDS, 1 Low IR LED
Night Mode Illuminator	IR Lamp

Electrical Specification

Connector	62 GB - 12E - 14 - 19 PW
Electrical Interface	RT-5, RT-5JS+ and RT-2000

Physical Specification

Size (LxWxD)	250 mm x 110 mm x 75 mm
Weight	1.3 Kg
Fixing	1/4 UNC (4 off)
Helitune Part Number	007907
NATO Stock Number	6720-99-593-9162

Environmental Specification

Water / Dust	IP67
EMC	Def-Stan 59-41
Operating Temperature Range	-25°C to +55°C
Storage Temperature Range	-40°C to +85°C



Helitune's Quality Management System is certified to BS EN ISO9001:2008 and AS9100

This document is not contractual. Helitune maintain a policy of continuous product development and improvement.

This specification may change without notice.

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