Helitune
Engineering Rotortuner Solutions

Flitepad®

The Ultimate Rotortuner Controller

Latest standard in ruggedised hand-held tablet PC design for aviation applications

Flitepad® is a high-performance hand-held terminal that combines PC processing power, ruggedised design and touch-screen functionality (glove compatible). Flitepad's primary function is to provide a next generation user interface for Helitune's Rotortuner products, including the RT-6™, RT-2000 and the RT-5JS+. The product's universal design can be readily configured for other aviation and harsh environment applications.

Features and Benefits

- RTCA/DO-160G EMC and Environmental compliance
- Fully ruggedised and sealed enclosure
- Wide operating Temperature Range (-20C, +55C)
- Compatible with RT-2000, RT-5JS+ and RT-6 Helitune products
- High performance processing
- Future proofed architecture with 10+ year support
- Fully integrates with Helitune RT-Vision™
- Touchscreen operation with gloved hands
- Optional Modular Printer
- Bright LCD sunlight readable display
- Directly compatible with aircraft +28V DC supply

Immediate display of exceedances after data acquisition

Design Overview

Flitepad delivers a seamless upgrade path for existing RT-2000 or RT-5JS+ operators and a powerful new platform for the latest generation equipment, RT-6 & HT-VHM. The product is qualified to meet the stringent requirements of RTCA/DO-160G for EMC and Environmental compliance.

Helitune have worked with its military customers to develop a form factor that is suitable for use on a wide range of aircraft platforms, including attack helicopters where space is at a premium.

Human factors and ergonomic design considerations have resulted in a lightweight magnesium alloy case, with tactile grips and a touch screen user interface. The advanced Intel® Atom™ processing architecture allows rapid calculation of Track & Balance results using Helitune's Minimum Flight Regime (MFR™) algorithm.

Large solid state disk capacity allows the hosting of a database that provides seamless integration with the RT-Vision Ground Station. Data can either be directly synchronised between Flitepad and RT-Vision, alternatively the Flitepad data base may be backed up onto the ruggedised USB stick and restored onto RT-Vision or copied to another Flitepad. The optional modular printer retains the unique Helitune Rotortuner capability to produce easy-to-read hardcopy printouts of adjustments when in-flight, reducing valuable maintenance turnaround time and supporting the reliable application of the adjustment.

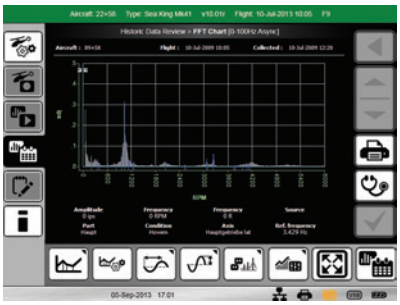
Optional leg strap for secure retention

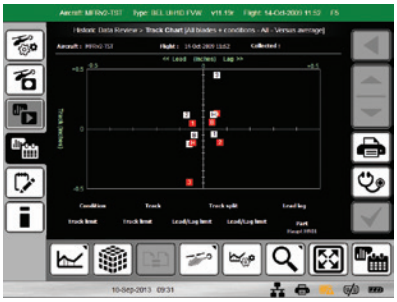
Glove-compatible touchscreen operation

User Interface and Operation

The intuitive Graphic User Interface (GUI) has individual control tabs for each major system function, making Helitune's Rotortuner products easy to use. The GUI uses easily recognisable icons throughout, to create a standardised interface for all international versions. Flitepad has a sunlight readable, high contrast colour display with user brightness control and a glove compatible touch screen.

Flitepad has a range of interfaces for in-flight and desktop connectivity. Flitepad operates directly from +28VDC aircraft power with an internal battery providing 2 hours (4 hours optional) of endurance when aircraft power is not available. A range of accessories are available including a carry handle, shoulder strap, leg strap and ruggedised memory stick.

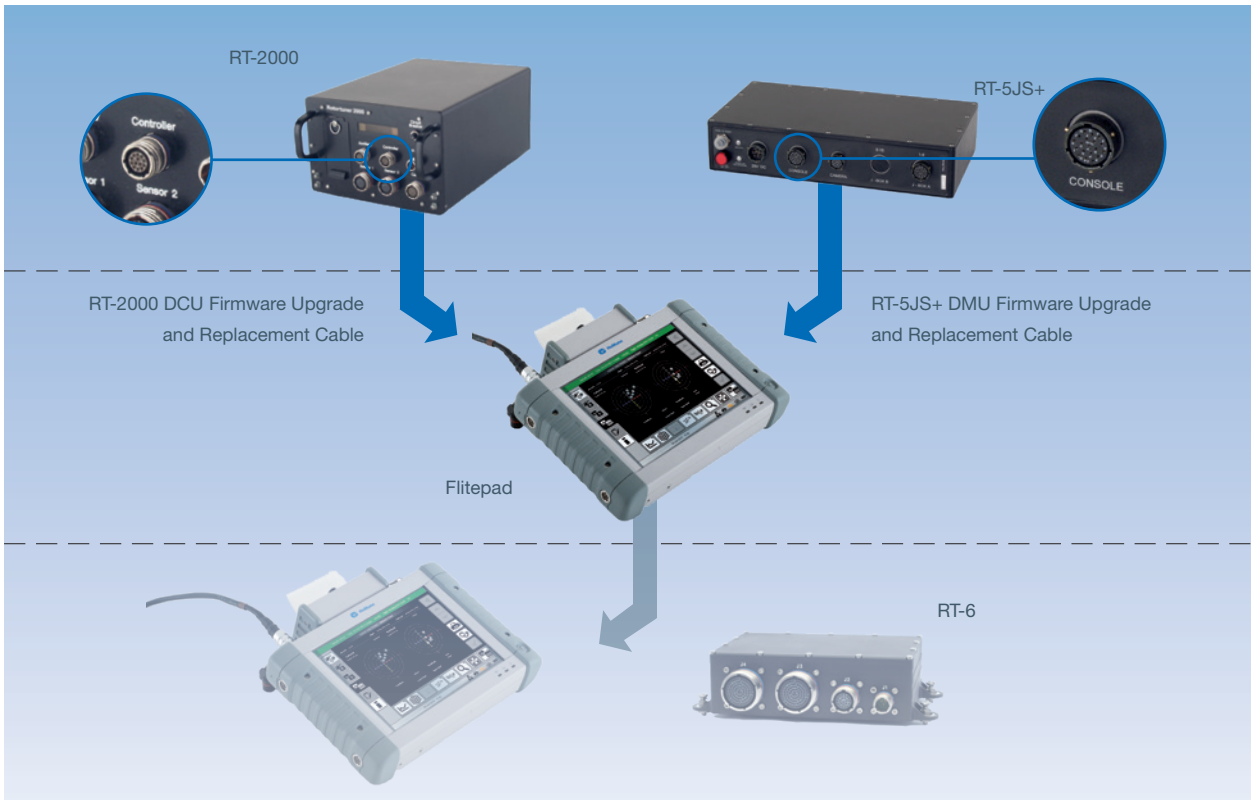




Detachable thermal printer module

Ruggedised USB memory stick for data backup or transfer

Rotortuner Upgrade Path





Technical Specifications

Display		*8.4” 800 X 600 TFT touchscreen, 800cd/m² typical*
IP		*IP 65 standard (IP 20 for printer)*
Shock Resistant		*1m drop onto concrete*
Processor/Memory		*Intel® Atom™ E3930 1.6Ghz 4GB DDR3 Memory*
HDD		*32GB (Solid state)*
Wi-Fi		*Optional (switch-activated when included)*
Power Input		*10-36V DC (MIL-STD-704F)*
Rugged AC Power Supplies Available		*Yes*
Battery Type/Life		*Lithium-ion 2hrs (4hrs optional)*
Operating System		*Windows 10 Embedded (Option for Linux, QNX)*
Interfaces		*USB 2.0 (x3), Gigabit Ethernet, RS232, RS422, RS485*
Size		*258mm x 179mm x 53mm (without printer)* *258mm x 218mm x 105mm (with printer)*
Weight		*1.9Kg (Flitepad only)* *0.6Kg (Flitepad printer)*
Qualification	EMC	*RTCA/DO-160G* *EN61000-6-3:2007+A1 2011* *EN61000-6-2:2005*
	Environmental	*RTCA/DO-160G*
Operating Temperature		*-20°C to +55°C (line power)* *-10°C to +45°C (battery power)*
Storage Temperature		*-40°C to +70°C*
Other Optional Hardware		*Thermal printer, rugged USB memory stick, carry handle, shoulder strap, leg strap*

PB-3223-02 Issue 5
A4

A CMG Company

Helitune’s Quality Management System is certified to BS EN ISO9001 and AS9100

This document is not contractual. Helitune maintain a policy of continuous product development and improvement.
This specification may change without notice.

Helitune UK
Hatchmoor Industrial Estate, Torrington
Devon EX38 7HP, UK

Phone +44 (0)1805 624650, Fax +44 (0)1805 624 689
Registered in England & Wales, No. 3979088
VAT Reg. No. 762 442 630

Helitune Germany
Lilienthalstraße 2a
82205 Gilching, Germany

Helitune USA
190 Gordon Street
Elk Grove Village, IL 60007-1120, USA

Helitune Italy
MXP Business Park Milano Malpensa
Via G. D'Annunzio, 2
21010 Vizzola Ticino (VA),Italy

www.helitune.com