

INTERFACE ASSEMBLIES FOR THE FLIR BOSON LWIR THERMAL IMAGING CORES

USB CONTROL



RHP-BOS-VPC-IF

S-BUS & PWM CONTROL



RHP-BOS-RC-IF

TTL & UART CONTROL



RHP-BOS-VPC-TTL-IF

VPC-IF - Video, Power, & Communication

- 5 - 26 Volts DC Input
- Reverse Polarity Protected
- Power via USB
- Stream Video to PC via USB
- 2 Composite Video Outputs
- Low Profile
- Alternate Connection Ports

The Low Profile Boson VPC Interface Module simplifies integration.

This module accepts a wide input voltage range of 5 to 26 Volts DC with reverse polarity protection. The two alternate Video/Power connections matched with the low profile, allows for a variety of installation options.

When connected to a PC, using the cable provided, all available parameters, video streaming and control, can be done using the FLIR Boson GUI.

Power can be provided via the USB connection or DC Voltage using the included 6-Pin video/power cables.

RC-IF - Remote Control Interface

- Continuous Digital Zoom
- Color Palette Selection
- Change Parameters During Flight
- (FFC) Flat Field Correction Shutter Control
- (DDE) Digital Detail Enhancement
- Assign Color Palettes, NUC, Thermal AGC and more - up to 16 channels.

Integrating the Boson Thermal Camera into your UAS has never been easier.

The RHP-BOS-RC-IF allows control of the FLIR Boson camera remotely using a 16 Channel S-Bus Signal or up to 5 PWM Signals from a wireless joystick remote control system or wired push button controller.

Assign any available parameter on the Boson to any knob, switch, lever or joystick on a remote controller and adjust these camera parameters 'on-the-fly' for remote or wired control.

This module accepts a wide input voltage range of 6 to 26 Volts DC with reverse polarity protection while powering your remote control receiver with a regulated 5 Volts DC. Also two composite video outputs are available allowing connection to two separate video devices with no signal loss.

VPC-TTL-IF - Video, Power, Communication, Sync

- USB or TTL Communication
- Power via USB or 5 to 26Volts DC Input
- Reverse Polarity Protected
- Stream Video to PC via USB
- 2 Composite Video Outputs
- Switchable to Sync Input/Output
- Low Profile Alternate connection ports

The RHP Boson Video Power Communication (VPC) and Transistor-Transistor Logic (TTL) Interface Module maximizes integration.

Two alternate video & power connections allow for a variety of installation options, adjustable using the FLIR Boson GUI, plus USB streaming and control.

Power is provided via the USB, 6-Pin video/power cable or 7-Pin Pico Blade cable (provided).

Either video output can be changed to provide sync input or output, via a jumper on the back of the RHP-VPC-TTL Board.

COMING SOON!

RHP-BOS-RC-HD-IF

HDMI OUTPUT



- Continuous Digital Zoom
- Color Palette Selection
- (FFC) Flat Field Correction Shutter Control
- (DDE) Digital Detail Enhancement
- (AGC) Automatic Gain Control
- HDMI 720-60fps / 1080p-60fps Output
- 5 to 26 Volts DC with reverse polarity protection
- Assign Color Palettes, NUC - up to 16 channels
- USB Control
- 5ch. PWM, 16ch. S-Bus or 5 button and/or Potentiometer Control

View the FLIR Boson with 720 or 1080p HDMI Output.

The RHP-BOS-RC-HD-IF allows control of the FLIR Boson camera remotely using a 16 channel S-Bus signal or up to 5 PWM signals from a wireless joystick remote control system. Assign any available parameter on the Boson, to any knob, switch, lever or joystick on a remote controller and adjust these camera parameters 'on-the-fly' or integrate with buttons/dry contacts for wired control.

This module accepts a wide input voltage range of 5 to 26 Volts DC with reverse polarity protection while powering your remote control receiver with a regulated 5 Volts DC.

**CAMERA LINK
+ SYNC**



RHP-BOS-CL-SY-IF

CL-SY-IF - Camera Link with Sync

- Camera Link SDR-26 Video Output
- Wide Input Voltage Range of 5-26VDC
- Reverse Polarity Protection
- Master / Slave Sync Option (30/60Hz)
- 3.3V TTL/UART Control
- USB Video Output
- 8-16 Bit Camera Link Output

Enable master/slave sync communication between connected devices

The RHP-BOS-CL-SY-IF Camera Link module for the FLIR Boson camera connects USB power and communication, analog video, and digital data via Camera Link connection.

This module converts CMOS-type digital data from the FLIR Boson to an 8-16 bit Camera Link output.

Camera Link + Sync*

The Master/Slave sync option allows the Boson to sync up with other devices (microcontroller, image capture card, etc.) using a 3.3 volt buffered port.

The RHP-BOS-CL-SY-IF's circuit provides 3.3V TTL/UART control to transmit and receive serial data.

With its advanced circuit design, the RHP-BOS-CL-SY-IF can be powered in multiple ways:

- 4-pin JST to USB cable
- 7-pin pico blade connector

The RHP-BOS-CL-SY-IF USB video and control can be performed through the FLIR camera controller Graphical User Interface (GUI) , which enables remote command and control of Boson.

*Please Note: External Sync is disabled on Boson ≤9Hz Cameras.
See Website for Details.*

**Applies to 30/60Hz Only*

WHO WE ARE:

Design & Engineering

RHP International custom product designs are made for a variety of applications. Our proven method of system design, bridges the gap between conception and production.

Custom Solutions

The RHP International team works alongside you and your team to provide a design-build approach. This approach develops the best solution for you and your business.

Fabrication

Our team of experts have provided many custom fabricated options. From precise CNC machining to bending, forming, and so much more. We work with a large variety of material forms which is why our customers come to us from a diverse array of industries.



For more FLIR Boson accessories and products visit:
<https://www.oemcameras.com/boson>

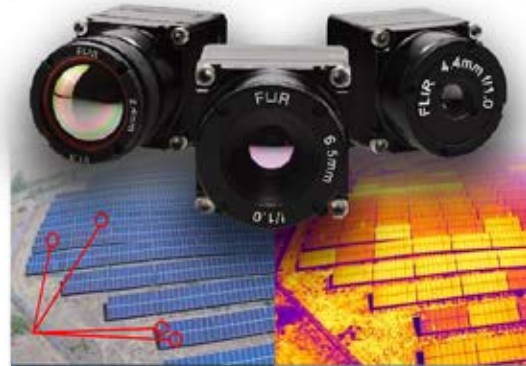


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FLIR BOSON® THERMAL IMAGING CORES & CUSTOM INTERFACE ASSEMBLIES



LOW PROFILE VPC MODULE



RC-IF



VPC & TTL MODULE



CAMERA LINK WITH SYNC