ThermalCapture 2.0 – Standard cable set

Splitter cable

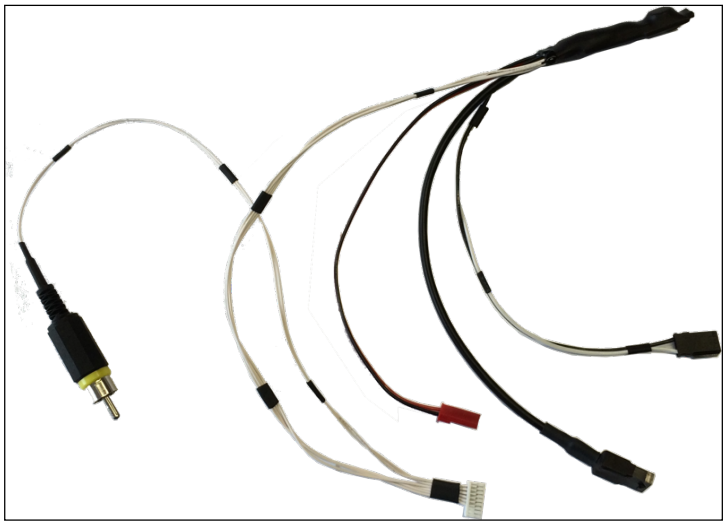

Figure 1: Splitter cable

This cable provides a standard set of interfaces to use ThermalCapture out-of-the-box. It connects via an 8-pin JST connector to ThermalCapture and provides analog video (Cinch), Power (BEC), Trigger (Servo plug) and serial interface connections.

8-pin JST connector

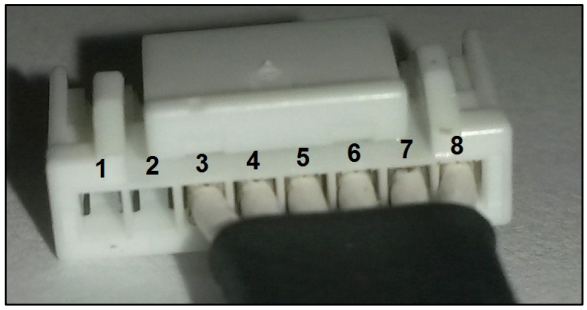

Figure 2: JST connector to ThermalCapture

Port description of JST connector:

Port	1	2	3	4	5	6	7	8
Function	NC	NC	5VDC IN	GND	Trigger IN	Serial IN	Video GND	Video OUT

Power Supply

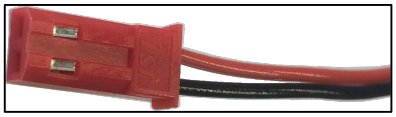

Figure 3: Power connector, BEC

The camera is powered via a BEC connector. Since there is a voltage converter integrated into the cable set, voltages between 8V and 32V DC can be applied to the red wire. Black is GND.

Attention: Reverse voltage supply will blow internal fuse!

Video out

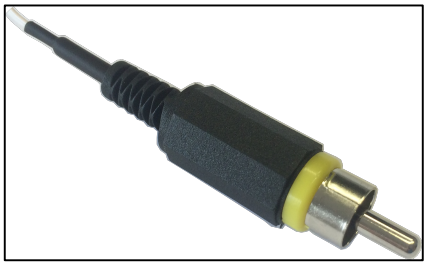

Figure 4: Video out, Cinch

Analog video is provided via a standard Cinch connection.

Trigger

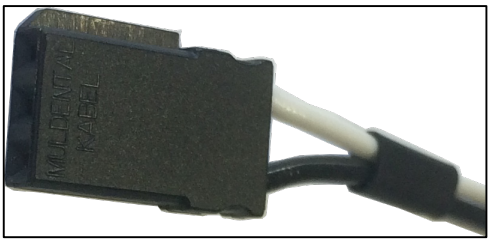

Figure 5: Trigger connector

ThermalCapture can be triggered to start recording externally. Connection is done via a standard servo plug.

Trigger signal can either be a digital/analog on/off switch, PWM signal, or S-BUS signal. Signal has to be connected to white, GND to black.

Serial interface

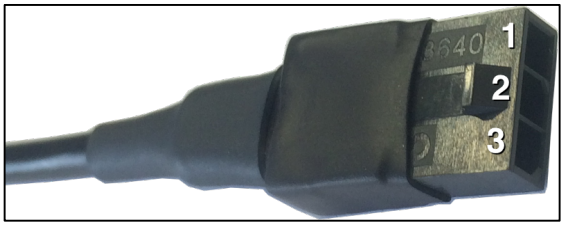

Figure 6: Serial interface

This plug provides a serial interface to add meta data to frames recorded by ThermalCapture. It also provides a 5V (max. 100mA) power supply for external devices like the TeAx GPS receiver for ThermalCapture.

Port description of Molex connector:

Port	1	2	3
Function	5V	GND	Serial IN