

FLIR TAU2

USB3 MODULE



- FLIR TAU 2 Fully Compatible
- USB3 Vision Digital and Analog Video
- Linux and Windows SDK libraries

Datasheet

Release date: 1st of June, 2016

End users Validity date: 31th of December, 2016 till next revision

Revision Number: 1.21

USB3 Module for FLIR TAU2

Introduction

Workswell designs USB3 module for easy and user-friendly PC connection for all FLIR TAU2 cores. USB3 module supports TAU2 versions and automatically detects image stream from core. TAU2 core is controlled and supplied from USB3 module through 50pins Hirose interface connector. Whole internal electronics is protected by metal enclosure

USB3 Module is supplied directly from USB3 cable without external power source needed. Very low power consumption decrease needs for special cooling. USB3 module is fully compatible with USB3 Vision and Gen-I-Cam protocol, ensuring interoperability in a multi-vendor environment. The product uses precision time protocol to synchronize image.

Workswell CorePlayer software automatically detects USB3 module, TAU2 core type or wrong IP address settings. Pixel resolution is setup for specific core in 8 or 14 RAW data format. Temperature values can be shown in different color pallets with interactive side bar and measurement tools. Users can manage core parameters such as Gain, NUC, Factory Reset, etc. There is also tutorial application, Linux and Windows dll libraries and C# application code available.



Characteristics

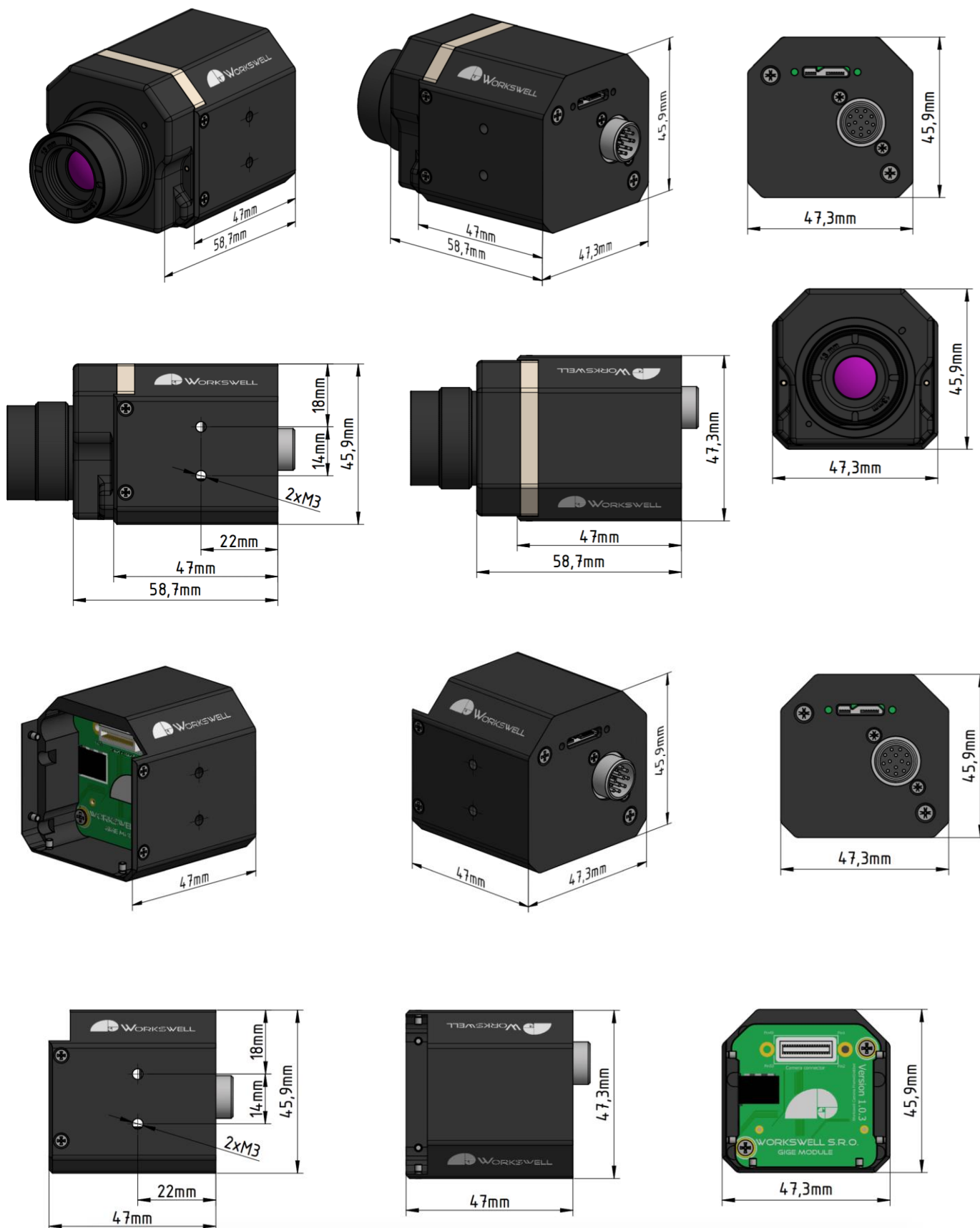
Interface and Connector	USB3 Micro-B Receptacle
Communication Protocol	USB3 Vision and GenICam
Power Supply	Power over USB3 (5V)
Power consumption	280mA maximum, average 150mA
Operational conditions	-10...40°C, Noncondensing Industrial version -40°C to 60°C
IP Protection	IP40
Pixel Depth	8/14 bits RAW data
Pixel Resolution	640 x 512, 336 x 256, 324 x 256, 160 x 128
Analog Video	PAL, NTSC
Camera Control	Serial Command Protocol
Module Dimensions	47 x 46 x 48 mm
Weight	110g

Features

- Power over USB3
- TAU2 640, 336, 324 and 160px compatibility
- TAU2 fast as well as slow versions
- Configuration Software CorePlayer available
- Easy Connection to TAU2 cameras
- Metal Enclosure with fixing screws available
- Tutorial App with Linux & Windows dll
- Linux for ARM, Labview and Matlab available
- Low Power Module Consumption
- Automatic TAU2 Recognition
- Raw Data or Temperature Output
- Integrated analogue output
- Powerful measurement tools in CorePlayer
- External Sync function for multi TAU streaming
- NEW Special industrial version available
- Available to buy module without housing



Mechanical drawings of the USB3 module



Ordering information

Product information

Product	Ordering code
Standard USB3 module - fully enclosed	P-USB3-001
Standard USB3 module - only electronics	P-USB3-002
Industrial USB3 module - fully enclosed	P-USB3-003
Industrial USB3 module - only electronics	P-USB3-004

Note: Industrial version of USB3 module includes electronic components tested from -40°C up to +60°C. Delivery time for 1 unit is 2 weeks. 5 weeks for 10+. 10 weeks for max 100 units. Another quantity have to be discussed in advance.

Accessories	Ordering Code
USB3 cable 1 m	A-USB3-004
Analog video cable 1m	A-USB3-006
Sync cable 1m	A-USB3-005
External 12 pin Cable Pigtail	A-USB3-003
USB3 cable thumbscrews 3 m, passive	A-USB3-007
USB3 cable thumbscrews 5 m, passive	A-USB3-008
USB3 cable thumbscrews 10 m, active	A-USB3-009

SDK and Libraries

Product	Ordering Code
Dewesoft SDK for WIC cameras (per camera)	SDK-WIC-Dewesoft
Labview SDK for WIC cameras (per camera)	SDK-WIC-Labview
Matlab Simulink SDK for WIC cameras (per camera)	SDK-WIC-Matlab
Windows SDK for WIC cameras (per camera)	SDK-WIC-Windows
Linux x86 (PC) SDK for WIC cameras (per camera)	SDK-WIC-Linux-x86
Linux ARM SDK for WIC cameras (per camera)	SDK-WIC-Linux-ARM
SW CorePlayer (per PC)	SW-CorePlayer
SW ThermoFormat (per PC)	SW-ThermoFormat



Content of Delivery

Standard USB3 module package – fully enclosed / P-USB3-001		
USB3 module – fully enclosed	1 pcs	1 year Warranty
SW CorePlayer	1 license	-
Windows and Linux x86 SDK	1 licence	-
USB3 cable 1 m	1 pcs	1 year Warranty
Hard transport case	1 pcs	
Torx T6 screwdriver with 6 screws	-	-

Standard USB3 module package – only electronics / P-USB3-002		
USB3 module –without metal enclosure	1 pcs	1 year Warranty
SW CorePlayer	1 license	-
Windows and Linux x86 SDK	1 licence	-

INDUSTRIAL USB3 module package – fully enclosed / P-USB3-003		
USB3 module – fully enclosed	1 pcs	1 year Warranty
SW CorePlayer	1 license	-
Windows and Linux x86 SDK	1 licence	-
USB3 cable 1 m	1 pcs	1 year Warranty
Hard transport case	1 pcs	
Torx T6 screwdriver with 6 screws	-	-

INDUSTRIAL USB3 module package – only electronics / P-USB3-004		
USB3 module –without metal enclosure	1 pcs	1 year Warranty
SW CorePlayer	1 license	-
Windows and Linux x86 SDK	1 licence	-





Sales information

End user customers shall buy all products directly from Workswell s.r.o. or local sales partners. Contact us to become a local sales partner on info@workswell.cz.

All Workswell products were designed for commercial use only. Communication modules are manufactured strictly for nonmilitary use. This product was designed for civilian application only and was not designed as Dual-Use goods.





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