FLIR TAU2
GigE Module

- FLIR TAU 2 Fully Compatible
- GigE Vision Protocol and PoE
- Linux & Windows SDK library

Datasheet

Release date: 1st of June, 2016

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

Revision Number: 1.21

WORKSWELL

GigE Module for FLIR TAU2

Introduction

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

GigE Module is supplied directly from Ethernet cable (PoE) and its low power module consumption decreases a need for special cooling. GigE module is fully compatible with GigE Vision 2.0 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 GigE 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.
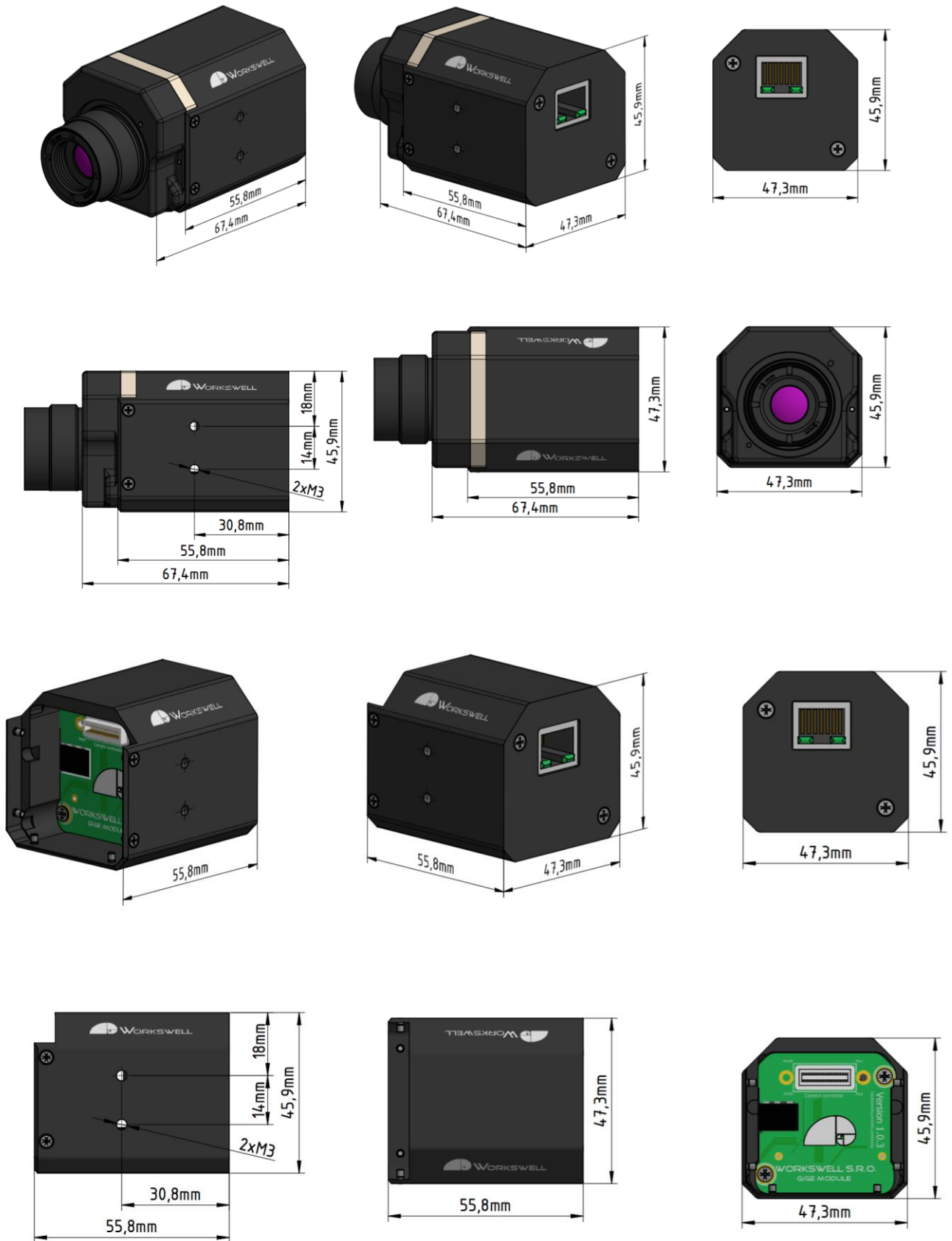
Characteristics

Interface and Connector	1000Gb/s Ethernet RJ45
Communication Protocol	GigE Vision and GenICam
Power Supply	Power over Ethernet (PoE), 250mA maximum
Power consumption	280mA maximum, average 150mA
Pixel Depth	8/14 bits RAW data
Pixel Resolution	640 x 512, 336 x 256, 324 x 256, 160 x 128
Image Buffer	128 MB
Camera Control	Serial Command Protocol
Operational conditions	-10°C…40°C, Noncondensing Industrial version -40°C to +60°C
IP protection	IP40
Module Dimensions	46 x 48 x 54 mm
Weight	130g (enclosured)

Features

- Power over Ethernet
- 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
- Powerful measurement tools in CorePlayer
- External Sync function for multi TAU streaming
- NEW Special industrial version available
- Available to buy module without housing

WORKSWELL

Ordering information
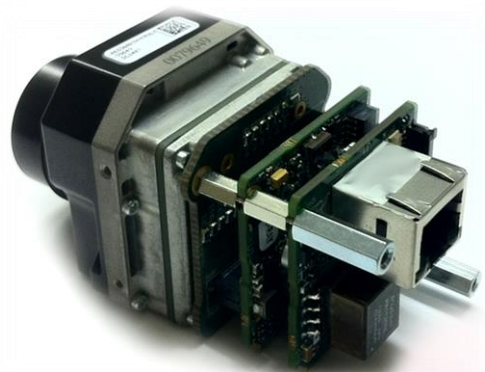
Product information

Product	Ordering code
Standard GigE module - fully enclosured	P-GIGE-001
Standard GigE module - only electronics	P-GIGE-002
Industrial GigE module - fully enclosured	P-GIGE-003
Industrial GigE module - only electronics	P-GIGE-004

Note: Industrial version of GigE 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
PoE injector	A-GIGE-001
Ethernet cable 3m	A-GIGE-002

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

Phone numbers
+420 725 877 063
+420 725 955 464

E-mail and Web
info@workswell.eu
www.workswell.eu

ID
Reg. No: 29048575
VAT No.: CZ29048575

Headquarters
Libocka 653/51b
Prague, Czech republic

All pictures are only for ilustration
Real values may vary

Content of Delivery

Standard GigE module package – fully enclosured / P-GIGE-001		
GigE module – fully enclosured	1 pcs	1 year Warranty
SW CorePlayer	1 license	-
Windows and Linux x86 SDK	1 licence	-
Ethernet cable 3 m	1 pcs	1 year Warranty
PoE Injector	1 pcs	1 year Warranty
Hard transport case	1 pcs	
Torx T6 screwdriver with 6 screws	-	-

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

INDUSTRIAL GigE module package – fully enclosured / P-GIGE-003		
GigE module – fully enclosured	1 pcs	1 year Warranty
SW CorePlayer	1 license	-
Windows and Linux x86 SDK	1 licence	-
Ethernet cable 3 m	1 pcs	1 year Warranty
PoE Injector	1 pcs	1 year Warranty
Hard transport case	1 pcs	
Torx T6 screwdriver with 6 screws	-	-

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

GigE Module for FLIR TAU2

All pictures are only for ilustration
Real values may vary

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.eu.

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.

GigE Module for FLIR TAU2

Phone numbers
+420 725 877 063
+420 725 955 464

E-mail and Web
info@workswell.eu
www.workswell.eu

ID
Reg. No: 29048575
VAT No.: CZ29048575

Headquarters
Libocka 653/51b
Prague, Czech republic

All pictures are only for ilustration
Real values may vary

Contacts

Sales Department

Adam Švestka, MSc., MBA

Mobile: +420 725 955 464

E-mail: adam.svestka@workswell.cz

Company contact details

Mobile: +420 725 877 063

E-mail: info@workswell.eu

Web: www.workswell.eu

Headquarters

Libocka 653/51b

161 00, Prague 6

Czech Republic

Branches

Meziricska 100

756 61, Roznov p. R.

Czech Republic

Univerzitni 1

010 08, Zilina

Slovak Republic

GigE Module for FLIR TAU2

Phone numbers
+420 725 877 063
+420 725 955 464

E-mail and Web
info@workswell.eu
www.workswell.eu

ID
Reg. No: 29048575
VAT No.: CZ29048575

Headquarters
Libocka 653/51b
Prague, Czech republic

All pictures are only for ilustration
Real values may vary