

ICS 2

Integrated Control Station

Generation 2



ICS 2

To operate a robotic inspection system in an industrial environment it is crucial to have a reliable control station. With the second generation of Integrated Control Station, the ICS 2, the operator has the all-in-one tool at his hand. It comes in a rugged hardshell case (Pelicase®). All embedded components, as the 21.5" touchscreen, high performance PC or Joystick are selected according to industrial standards. This means extreme robustness and reliability in harsh environments as well as guaranteed spare parts for 10 years.



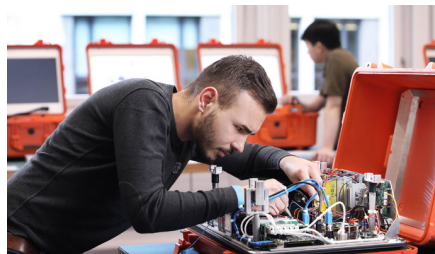
Rugged

The ICS 2 is made for the field. Built in a proven hard shell Peli™ Case it will be used in harsh environments. Internal shock absorbers and the fanless design make the ICS II extremely robust and durable - exactly how the field requires it to be.



Fully integrated

All components are perfectly matched and built to industrial standards. No consumer electronics, external power supplies or visible wires. The integrated industrial touchscreen display is glove friendly and not reactive to moisture.



Compatible

No matter which of our robotic platforms is used. The ICS 2 is compatible to most Inspection Robotics systems. The system operates on Microsoft Windows, this enables you to customize and setup your own applications.



Technical specifications

ICS 2 Spec Sheet



Power Input	100V ... 240 V AC
Operating Power	48V DC / 640W max.
Computer	Industrial rugged Intel i7-6600U, 8GB RAM, 128GB mSATA, Microsoft Windows 10 - 64Bit
Screen	Integrated 21.5" touchscreen Full HD, 1200cd/sqm Ultra High Brightness, Rugged industrial, glove friendly
I/O	1xGbit Ethernet, 2xUSB 2, 2xUSB 3.0, Encoder Out
Case	Peli™ Case, fan-less design, IP67 (closed), on rollers
Temperature	0°C ... 40°C (32°F ... 104°F)
Weight	21kg (46lbs)
Dimensions	560mm x 460mm x 265 mm 22.07" x 17.92" x 10.42"

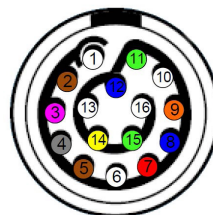
Components Control and Safety



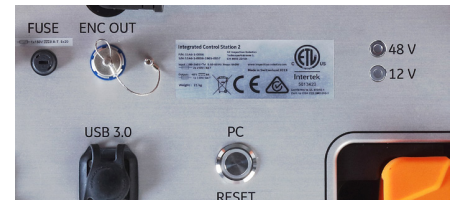
Safety Architecture	Emergency Stop Monitoring according to EN6094-5-1
Joystick	Custom designed rugged USB joystick with control mode indicators
Cable options to consumer	10m / 30m / 60m / 75m 33ft / 100ft / 200ft / 250ft
Compatibility	BIKE, FAST RVI, FAST UT, PTZ HD30, TZI HD
Connector to Robot	Lemo connector 2K 16Pin

Pinout for custom device control

1	SIGNAL DC
2	SIGNAL DD+
3	POWER 48V
4	POWER 48V
5	POWER 48V
6	POWER 48V
7	POWER GND
8	POWER GND
9	SIGNAL DA+
10	SIGNAL DA-
11	SIGNAL DB+
12	SIGNAL DC+
13	SIGNAL DD-
14	POWER GND
15	POWER GND
16	SIGNAL DB-



Certification Standards



Manufacturing Country	Switzerland
CE marking	Compliance with the relevant EU legislation, product meets the requirements of the applicable EC directives
UL / ETL marking	Conformity to UL 61010-1 certified to CSA C22.2#61010-1 control number 5013423
Meets Requirements for protection against hazards	Electric shock or burn mechanical hazards spread of fire from equipment excessive temperature effects of fluids / fluid pressure effects of radiation, including lasers sources and ultrasonic pressure liberated gases, explosion and implosion