



# Krautkrämer USIP xs CV

Multi-channel conventional ultrasonic instrument platform

- Industry-leading automation capabilities
- Scalable platform for utmost synergies
- Intuitive user interface for maximum ease of use

## **USIP** xs CV is the all industrial purpose, multi-channel conventional ultrasonic instrument for integration into any automated and semi-automated inspection system.

The latest USIPIxs CV is a precision, multi-channel inspection platform that solves the growing need for easy, cost-effective integration and improved automation capabilities in inspection lines.

With a wide range of channel configurations available, the instrument is scalable in performance and associated pricing. As a result, it is well suited to the widest range of projects and applications.



**Quality Assurance, NDT** 



**Process Control** 



**R&D** and Labs

### Effective integration

Industry-leading automation and integration capabilities enable even the most complex systems to be built with less effort.

Multiple interface standards make USIP|xs CV one of the best equipped instruments for effective integration into automated systems. The integrated field bus connection allows for a single cable connection to any PLC and minimizes wiring when designing larger systems.

### Synergies of a scalable platform

As one of the largest platforms of conventional ultrasonic instruments, Krautkrämer USIP|xs CV offers UT performance and channel count that can be fully tailored to the individual customer requirements instead of a "one-size-fitsall" approach.

The platform concept creates synergies concerning technical infrastructure, instrument cost and integration know-how. This reduces the complexity of setting up and maintaining inspection systems as there will be an instrument from the platform as *the* perfect fit for any kind of system type and inspection need.

#### Latest usability standards for ease of use

The product lives up to the latest usability standards and comes equipped with a vast array of integrated diagnostic features. The result: Successful projects without excessive staff training and learning efforts.

- Graphical user interface compliant with the latest usability standards
- Up to 8 parallel A-Scans enable for optimized inspection control
- All digital filters and up to 4 amplifiers per channel enable for optimum setups under almost any inspection condition
- TCG function can be applied without limitations over the whole dynamic range
- Developed based on decades of experience as the leading manufacturer of ultrasonic testing systems
- Comprises of a vast array of diagnostic tools and remote diagnostics capabilities to save time and efforts during start up, installation and commissioning
- Option to create an individualized graphical user interface, extract data and maximize the customization of the system
- The USIP|xs software development kit includes an extensive library as well as quick-start sample programs



has to prove the begin building of	
Automa	
Add a land and a dd ()	
all'occupies and a second s	
Properties	
DateAlcostinant	
Notice of a deal party in party.	
and a second sec	
with the second second second	
Propriet, doop	

Software development kit

Technical data			Commercial offering		
USIP xs CV Essential			USIP xs CV basic instrument packages		
Channels Multiplexing	2, 4, 8, 12 channel instrument		Single instrument	2, 4, 8 or 12 channel instrument, Lemo 1 Coax or BNC	
	16, 24, 36 channel multi-instrument system 2, 4, 8 channel instrument: 2 parallel evaluation channels			1x LAN cable, 2 m	
				1x power supply cable 24 V, 2 m	
				1x set 19" rack mounting	
	12 channel instrument: 4 parallel evaluation channels			1x USIP xs operator GUI for installation on a customer supplied PC/laptop	
Transmitter voltage	25 - 200 V			Operating manual	
Transmitter pulse width	30 – 1000 ps			Safety Instructions	
Probe frequency	0.7 - 13  MHZ (-3  dB)		systems	Lemo 1 Coax or BNC	
				1x LAN cable 2 m per instrument	
Dynamic range	0 - 80 dB			1x power supply cable 24 V, 2 m per instrument	
Gain per channel	1x main + individual gains for up to 3x gates			Optical data link cable instrument to instrument	
TCG	l curve per channel			Electrical sync cable instrument to instrument	
			1x set 19" rack mounting per instrument		
Besolution of ToF	5, Incl. IX Interface echo gate		Ix USIP xs operator GUI for installation on a customer supplied PC/laptop		
				Operating manual	
Power Input	24 VDC/130 W			Safety instructions	
Housing	19" rack mount or desk top			Manufacturer's certificate	
	Protective covering on request		Accessories for power supply		
Protection grade	IP 54	-	Desktop power supply unit	Universal, desk top style power supply unit 110/230 V-24 V, 50 Hz / 60 Hz	
Temperature range	5 – 40 °C				
Probe connectors	Lemo I, BNC		Accessories for interfacing		
Interfacing	Ethernet I Gbit/s Field bus 160 bit I/O	D	Interface terminal 78 pin	78-pin terminal clamp incl. 2m cable for easy digital signal handover from the periphery to the instrument	
HW-interface signals per instrument	D-Sub 78 Pin 144 gate event bits 8x analog out 64x TDR in 4x encoder in		Field bus gateway	Interbus – Profinet gateway for mounting rail installation incl. 2m cable for cost effective handover of large amounts of interface signals	
			Sync cable, 1 m	Needed in case an external sync pulse needs to be handed over to the instrument	
				Configuration: 2x M12	
UT instrument standard	EN ISO 22232-1	_	Probes and probe cables		
			Visit our probes' homepage on www.bakerhughes.com		
			Instrument certification		
			EN ISO 22232-1 certificate	Certification of the instrument according to EN ISO 22232-1	

To learn more about how we can make our platform work for your needs, reach out to our customer care team at **uttm.service@bakerhughes.com.** 

USIP|xs SDK

Waygate Technologies, formerly GE Inspection Technologies, is a global leader in NDT solutions with more than 125 years of experience in ensuring quality, safety and productivity.

waygate-tech.com

Copyright 2021 Baker Hughes Company. All rights reserved. BHHK-60032 (04/2021)



USIP|xs software development kit