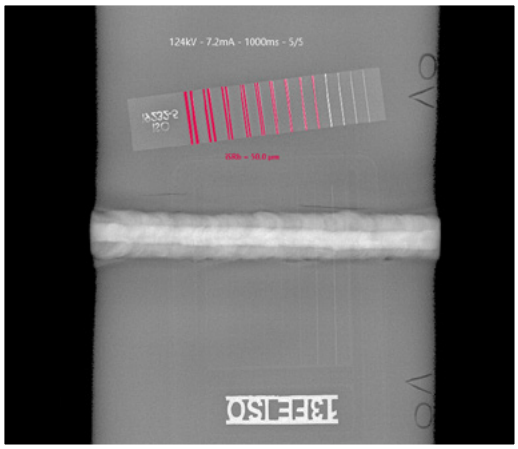
THE ULTIMATE X-RAY SOLUTION



PORTABLE X-RAY SYSTEMS

Digital Radiography Solutions for NDT Applications

BUILD YOUR OWN **BUNDLE**

TELEDYNE ICM
Everywhereyoulook™
Part of the Teledyne Imaging Group

X-RAY SYSTEMS

X-RAY GENERATOR, DETECTOR, AND SOFTWARE IN ONE BUNDLE!

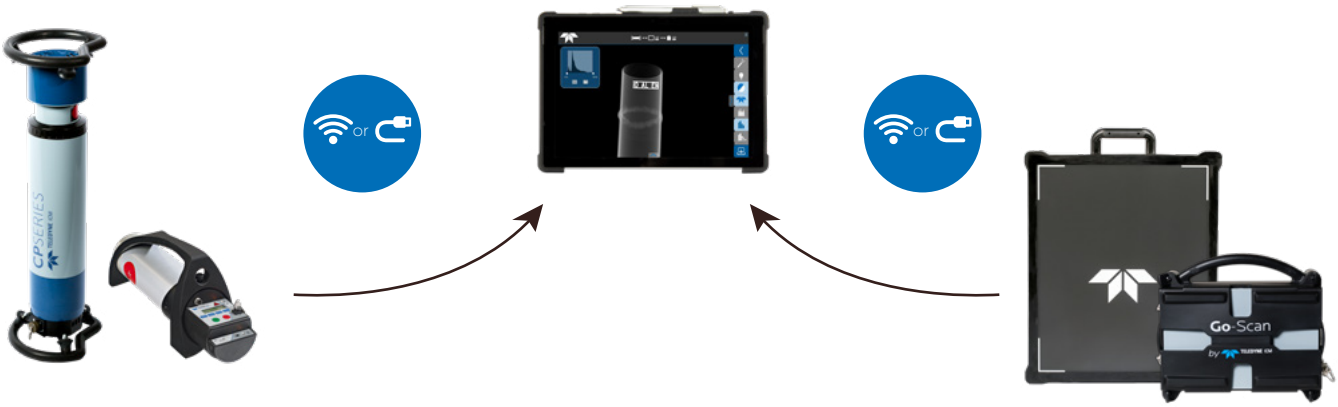
Discover our complete range of portable X-Ray systems for NDT inspections.
Fully developed in-house, these packages combine a detector, an X-Ray generator, and Sherlock NDT, a state-of-the-art and user-friendly NDT inspection software.

Paired with Teledyne ICM's X-Ray generators (**CP Series** or **CP Batteries**), the **GO-SCAN**'s detectors deliver a sharp, clear, and detailed image and can reveal a very large majority of defects such as cracks, corrosion and failing welds.

Sherlock NDT, Teledyne ICM's NDT inspection software is fully compatible with Teledyne ICM's complete range of portable X-Ray generators.
It is the perfect tool for industrial radiography, allowing compliancy with most quality standards. The intuitive and user friendly touchscreen software produces high quality images, allows real-time (video) acquisition, and comes with many different enhancement features.

Make your own selection according to your inspection needs.

CONNECTIVITY



1 X-RAY GENERATORS : SITEX CP BATTERY OR CP SERIES

LIGHT-WEIGHT

100% DUTY CYCLE

CONSTANT POTENTIAL

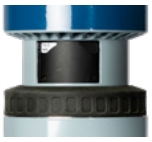
WIDE INPUT POWER RANGE

RUGGEDIZED

CP BATTERY	Unit	CP120B	CP160B
Radiation geometry	-	Directional	Directional
Power supply	-	Battery	Battery
Output voltage range	kV	40 to 120	40 to 160
Tube current range	mA	0.1 to 1.0	0.1 to 0.5
Tube current at full output	mA	1.0	0.5
Maximum power at the anode	W	120	80
Constant power mode	-	Yes	Yes
Working cycle at 30°C (*)	%	/	/
Steel penetration (**)	mm/in	10 / 0.4	21 / 0.8
Weight	Kg/lbs	7.0 / 15.4	9.2 / 20.3
Overall dimensions	mm/in	Ø 124 x 476 / 4.9 x 18.7	Ø 124 x 520 / 4.9 x 20.5
Leakage dose at 1 m at full output	mSv/h	< 2.0	< 2.0
Optical focal spot according to EN 12543	mm/in	0.8 x 0.5 / 0.03 x 0.02	0.8 x 0.7 / 0.03 x 0.03
Maximum useful angle	°	50 x 50	60 x 60
Inherent filtration	mm/in	Equiv. 3.5 / 0.1 (Al)	Equiv. 3.5 / 0.1 (Al)
Waterproof level	-	IP54	IP54
Operating temperature	°C/F°	-25 to +50 / -13 to +140	-25 to +50 / -13 to +140
Storage temperature	°C/F°	-40 to +80 / -40 to +176	-40 to +80 / -40 to +176
Guard rings	-	/	/

(*) Open air - airstream 5m/sec. (**) 700 mm FFD, 10 min , AA400, D=2 for CPD

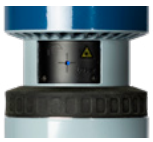
CP SERIES BUILD-IN CARROUSEL 5 OUTPUT POSITIONS



Lead shutter

3 mm Aluminium filter

Customizable diaphragm



Laser pointer

0.8 mm Beryllium window

SITEX CP SERIES	Unit	SITEX CP160D	SITEX CP200D	SITEX CP200DS	SITEX CP225D	SITEX CP300DM	SITEX CP300DS
Radiation geometry	-	Directional	Directional	Directional	Directional	Directional	Directional
Power supply	-	Mains	Mains	Mains	Mains	Mains	Mains
Output voltage range	kV	10 to 160	10 to 200	10 to 200	10 to 225	30 to 300	30 to 300
Tube current range	mA	1 to 10	1 to 10	0.5 to 10	1 to 10	0.5 to 10	0.5 to 6
Tube current at full output	mA	5.6	4.5	3.7	4.0	3	3
Maximum power at the anode	W	900	900	750	900	900	900
Constant power mode	-	Yes	Yes	Yes	Yes	Yes	Yes
Working cycle at 30°C (*)	%	100	100	100	100	100	100
Steel penetration (**)	mm/in	29 / 1.14	42 / 1.65	40 / 1.57	47 / 1.9	66 / 2.6	66 / 2.6
Weight	Kg/lbs	14.7 / 30.86	14.7 / 30.86	15.9 / 35.05	14.7 / 30.86	29 / 63.93	29 / 63.93
Overall dimensions	mm/in	Ø 140 x 725 / 5.5 x 28.5	Ø 140 x 725 / 5.5 x 28.5	Ø 140 x 705 / 5.51 x 27.75	Ø 140 x 725 / 5.5 x 28.5	Ø 180 x 837 / 7.1 x 33	Ø 180 x 837 / 7.1 x 33
Leakage dose at 1 m at full output	mSv/h	< 2.0	< 2.0	< 2.0	< 2.0	< 5.0	< 5.0
Optical focal spot according to EN 12543	mm/in	3 / 0.12	3 / 0.12	1 / 0.04	3 / 0.12	3 / 0.12	1 / 0.04
Maximum useful angle	°	60 x 40 elliptical	60 x 40 elliptical	60 x 40 elliptical	60 x 40 elliptical	60 x 40 elliptical	60 x 30 elliptical
Inherent filtration	mm/in	0.8 / 0.03 (Be window)	0.8 / 0.03 (Be window)	0.8 / 0.03 (Be window)	0.8 / 0.03 (Be window)	0.8/ 0.03 (Be window)	0.8/ 0.03 (Be window)
Waterproof level	-	IP65	IP65	IP65	IP65	IP65	IP65
Operating temperature	°C/F°	-30 to +60 / -22 to +140	-30 to +60 / -22 to +140	-30 to +60 / -22 to +140	-30 to +60 / -22 to +140	-30 to +60 / -22 to +140	-30 to +60 / -22 to +140
Storage temperature	°C/F°	-40 to +70 / -40 to +158	-40 to +70 / -40 to +158	-40 to +70 / -40 to +158	-40 to +70 / -40 to +158	-40 to +70 / -40 to +158	-40 to +70 / -40 to +158
Guard rings	-	2	2	2	2	2	2

(*) Open air - airstream 5m/sec. (**) 700 mm FFD, 10 min , AA400, D=2 for CPD

2 X-RAY DETECTORS : GO-SCAN SERIES

USER-FRIENDLY | ULTRA LIGHT | PLUG & PLAY | FAST SET-UP | FULLY INTEGRATED

	Unit	GO-SCAN 1506	GO-SCAN 1510 HR	GO-SCAN 1510 XR	GO-SCAN 2329	GO-SCAN 3025	GO-SCAN 4335
GENERAL							
Technology	-	CMOS Active Pixel	CMOS Active Pixel	CMOS Active Pixel	CMOS Active Pixel	aSi	aSi
Pixel pitch	µm	49.5	99	49.5	49.5	120	154
Sensitivity settings	#	1	2	1	1	1	1
Active area	mm/in	57 x 146 / 2.2 x 5.7	102 x 153 / 4 x 6	114 x 145 / 4.5 x 5.7	230 x 290 / 9 x 11.4	300 x 250 / 11.8 x 9.8	434 x 355 / 16.9 x 13.8
Active resolution	pxl	1152 x 2940	1032 x 1548	2304 x 2940	4608 x 5890	2560x 2048	2816 x 2304
BANDWITH							
Data interface	-	GigE & Wi-Fi**	GigE & Wi-Fi	GigE & Wi-Fi	GigE	GigE & Wi-Fi	GigE & Wi-Fi
ADC conversion	bits	14	14	14	14	16	16
Frame rate– 1x1 (GigE)	fps	15	up to 30	up to 9	up to 2	0.3	0.3
POWER CONSUMPTION							
Power supply	-	Battery** / Mains*	Battery / Mains*	Battery / Mains*	Mains*	Battery / Mains*	Battery / Mains*
Power consumption	W	40	15	15	15 to 40	17	20
Battery performance	-	-	Approx. 7 hours	Approx. 7 hours	-	Approx. 7 hours	Approx. 7 hours
INTEGRATION							
Dimension (without sleeve)	mm/in	206 x 78 x 31 / 8.1 x 3 x 1.2	238 x 154 x 25 / 9.4 x 6.0 x 1.0	238 x 154 x 25 / 9.4 x 6.0 x 1.0	331 x 331 x 23 / 13 x 13 x 0.9	339x 287 x 18.8 / 13.34x 11.29x 7.4	464 x 388 x 18.8 / 18.26 x 15.27x 7.4
Overall dimension	mm/in	218 x 90 x 35 / 8.6 x 3.5 x 1.4	259 x 227.7 x 107.5 / 10.2 x 8.9 x 4.2	259 x 227.7 x 107.5 / 10.2 x 8.9 x 4.2	350 x 350 x 28.2 / 13.7 x 13.7 x 1.1	412.5 x 310 x 34.2 / 16.2 x 12.2 x 1.3	538.5 x 410 x 34.5 / 21.2 x 16.1 x 1.3
Weight (without sleeve)	Kg/lbs	0.9 / 1.9	1.6 / 3.5	1.6 / 3.5	8 / 17.6	3.5 / 6.6	5.9 / 13
ENVIRONMENTAL							
Operating temperature	°C/F°	+10 to +40°C / +50 to +104°F	-20 to 50°C / -4 to +122°F	-20 to 50°C / -4 to +122°F	0 to +50°C / +32 to +122°F	-20 to 50°C / -4 to +122°F	-20 to 50°C / -4 to 122°F
Storage temperature	°C/F°	-10 to +55°C / +14 to +131°F	-20 to 60°C / -4 to +140°F	-20 to 60°C / -4 to +140°F	-10 to +55°C / +14 to +131°F	-20 to 60°C / -4 to +140°F	-20 to 60°C / -4 to 140°F
Humidity	% R.H.	10 to 80	20 to 80	20 to 80	20 to 80	30 to 75	30 to 75
X-ray energy range	kV	Up to 225	Up to 225	Up to 225	Up to 225	Up to 300	Up to 300

(*) with Power/Com Cable accessory
(**) with Power unit

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3 RUGGEDIZED TABLET WITH SHERLOCK NDT SOFTWARE

TOUCHSCREEN SOFTWARE

PLUG AND PLAY

WIRELESS OR CABLE

IMAGE EDITING

TELEDYNE FILTER

SOFTWARE FEATURES

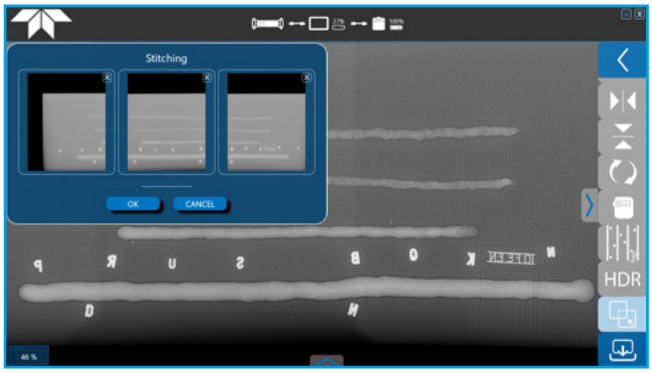
All-in-one touchscreen software
Available in 20 languages
Add unlimited users
Library to store all inspections efficiently

Interconnected by cable or wireless
Fast image acquisition
Preset exposure configurations

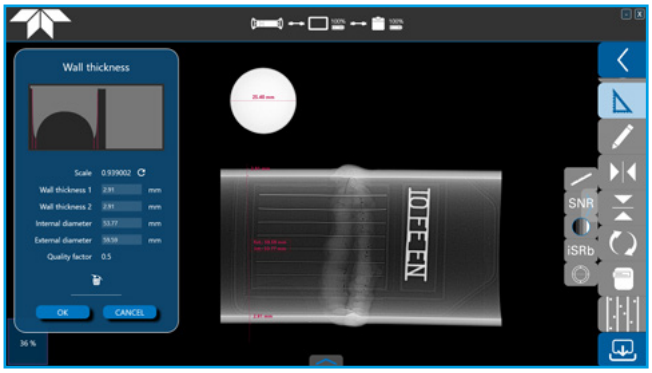
MULTIPLE IMAGE EDITING FEATURES

Image editing
Real-time adjustable dynamic filter
Adjustable Teledyne filter
Automatic & manual histogram equalization
DICONDE Compliant
Emboss
Black & white
Pseudo-colours
Grey level input value
HDR
Smart measurement tool
SNR / SNRn
CNR / CNRn
SRb / iSRb / automatic IQI recognition
Wall thickness measurement
Annotation / Highlight

Mirroring / Rotation
Pixel map generation and edition
Real-time Image acquisition
Exposure time calculator
Stitching tool
Monitoring and modifying parameters during inspection
During the inspection, possibility to adapt parameters and apply filters
Superpower Zoom (up to 5000%)
Drag&drop external images from Windows into the image editor
Automatic file export
ROI filtering
Gamma sources support
“No detector” mode
Advanced reporting and data export tools (custom tags, tags edition, new data export features)
Extended detector range support

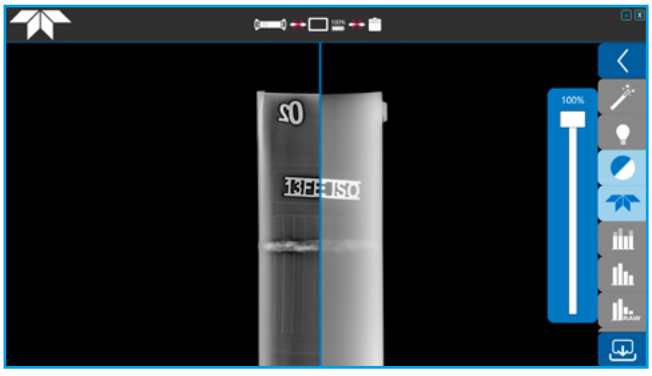


Stitching of multiple images



Wall thickness measurement

iSRb calculation and automatic IQI recognition



With Teledyne Filter

Without Teledyne Filter

PORTABLE X-RAY SYSTEMS

Digital Radiography Solutions for NDT Applications

01/2024

SAFETY WARNINGS. The Goods can cause death, personal injury or property damage if they are used, operated, maintained, stored or disposed of improperly. In particular, the Goods may emit x-ray radiation, so adequate safety precautions must be taken to minimize exposure. At a minimum, Buyer should adhere to the ALARA (as low as reasonably achievable) principle and should comply with all applicable regulations relating to protection against x-ray emissions.

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