



THE ULTIMATE X-RAY SOLUTION



# PORTABLE X-RAY SYSTEMS

Digital Radiography Solutions for NDT Applications

BUILD YOUR OWN BUNDLE



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**TELEDYNE ICM**  
Everywhere you look™

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.

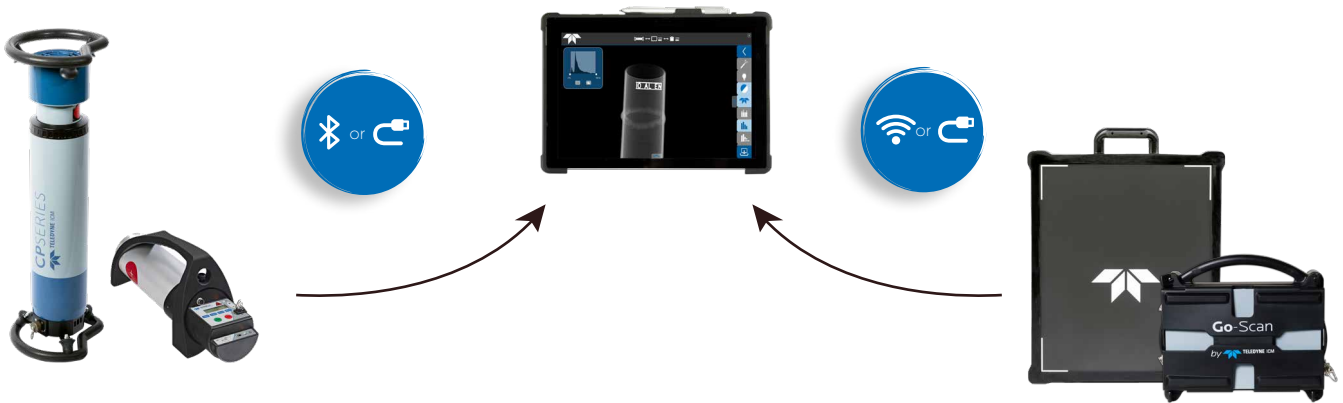
Fully developed in-house, these packages combine a detector, an X-ray generator, and Sherlock NDT, a state-of-the-art and user-friendly NDT inspection software.

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





LIGHT-WEIGHT



100% DUTY CYCLE

CONSTANT  
POTENTIALWIDE INPUT POWER  
RANGE

RUGGEDIZED

Unit	CP120B	CP160B	SITEX CP160D	SITEX CP200D	SITEX CP200DS	SITEX CP225D	SITEX CP300D
Radiation geometry	-	Directional		Directional	Directional	Directional	Directional
Power supply	-	Battery		Mains	Mains	Mains	Mains
Output voltage range	kV	40 to 120	40 to 160	10 to 160	10 to 200	10 to 200	10 to 225
Tube current range	mA	0.1 to 1.0	0.1 to 0.5	1 to 10	1 to 10	0.5 to 10	1 to 10
Tube current at full output	mA	1	0.5	5.6	4.0	3.7	4.0
Maximum power at the anode	W	120	80	900	900	750	900
Constant power mode	-	Yes		Yes	Yes	Yes	Yes
Working cycle at 30°C (*)	%	/		100	100	100	100
Steel penetration (**)	mm/in	10 / 0.4	21 / 0.8	29 / 1.14	42 / 1.65	40 / 1.57	47 / 1.9
Weight	Kg/lbs	7.0 / 15.4	9.2 / 20.3	14.7 / 30.86	14.7 / 30.86	15.9 / 35.05	14.7 / 30.86
Overall dimensions	mm/in	Ø 124 x 440 / 4.9 x 17.3	Ø 124 x 490 / 4.9 x 19.3	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
Leakage dose at 1 m at full output	mSv/h	< 2.0		< 2.0	< 2.0	< 2.0	< 5.0
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	3.0 / 0.12	3.0 / 0.12	1	3.0 / 0.12
Maximum useful angle	°	50 x 50	60 x 60	60 x 40 elliptical	60 x 40 elliptical	60 x 40 elliptical	60 x 40 elliptical
Inherent filtration	mm/in	Equiv. 3.5 / 0.1 (Al)		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	-	IP54		IP65	IP65	IP65	IP65
Operating temperature	°C/°F	-25 to +50 / -13 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 +80 / -40 to +176		-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

(\*) Open air - airstream 5m/sec.

(\*\*) 700 mm FFD, 10 min, AA400, D=2 for CPD

ISO 19232  
E 038

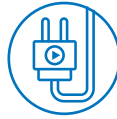
ISO - 92.4 mm



USER-FRIENDLY



ULTRA LIGHT



PLUG &amp; PLAY



FAST SET-UP

FULLY  
INTEGRATED

Unit		GO-SCAN 1510 HR	GO-SCAN 1510 XR	GO-SCAN 3025	GO-SCAN 4335
<b>GENERAL</b>					
Technology	-	CMOS Active Pixel	CMOS Active Pixel	aSi	aSi
Pixel pitch	µm	99	49.5	120	154
Sensitivity settings	#	2	1	1	1
Active area	mm/in	102 x 153 / 4 x 6	114 x 145 / 4.5 x 5.7	300 x 250 / 11.8 x 9.8	434 x 355 / 16.9 x 13.8
Active resolution	pxl	1032 x 1548	2304 x 2940	2560 x 2048	2816 x 2304
<b>BANDWIDTH</b>					
Data interface	-	GigE & Wi-Fi	GigE & Wi-Fi	GigE & Wi-Fi	GigE & Wi-Fi
ADC conversion	bits	14	14	16	16
Frame rate– 1x1 (GigE)	fps	up to 30	up to 9	0.3	0.3
<b>POWER CONSUMPTION</b>					
Power supply	-	Battery / Mains*	Battery / Mains*	Battery / Mains*	Battery / Mains*
Power consumption	W	15	15	17	20
Battery performance	-	Approx. 7 hours	Approx. 7 hours	Approx. 7 hours	Approx. 7 hours
<b>INTEGRATION</b>					
Dimension detector head	mm/in	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	-	-
Overall dimension	mm/in	238 x 154 x 80 / 9.4 x 6.0 x 3.1	238 x 154 x 80 / 9.4 x 6.0 x 3.1	339 x 287 x 188 / 13.34 x 11.29 x 7.4	464 x 388 x 188 / 18.26 x 15.27 x 7.4
Detector head weight	Kg/lbs	1.6 / 3.5	1.6 / 3.5	-	-
Overall weight	Kg/lbs	3.5 / 7.7	3.5 / 7.7	3.5 / 6.6	5.9 / 13
<b>ENVIRONMENTAL</b>					
Operating temperature	°C/F°	-20 to 50°C / -4 to +122°F	-20 to 50°C / -4 to +122°F	-20 to 50°C / -4 to +122°F	-20 to 50°C / -4 to 122°F
Storage temperature	°C/F°	-20 to 60°C / -4 to +140°F	-20 to 60°C / -4 to +140°F	-20 to 60°C / -4 to +140°F	-20 to 60°C / -4 to 140°F
Humidity	% R.H.	20 to 80	20 to 80	30 to 75	30 to 75
X-ray energy range	kV	Up to 300	Up to 300	Up to 300	Up to 300

(\*) with Power/Com Cable accessory

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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

ADRC dynamic filter

Local contrast enhancement

Teledyne filter

Histogram equalization

DICONDE Compliant

Emboss

Black & white

Pseudo-colours

Smart measurement tool

SNR

Greyscale feature

Stitching

iSRb / automatic IQI recognition

Annotation / Highlight

Mirroring / Rotation

Pixel map edition

Real-time Image acquisition

Exposure time calculator

Wall thickness measurement

Monitoring and modifying parameters during inspection

During the inspection, possibility to adapt parameters and apply filters

Superpower Zoom (up to 500%)

Drag&drop external images from Windows into the image editor

Automatic file export



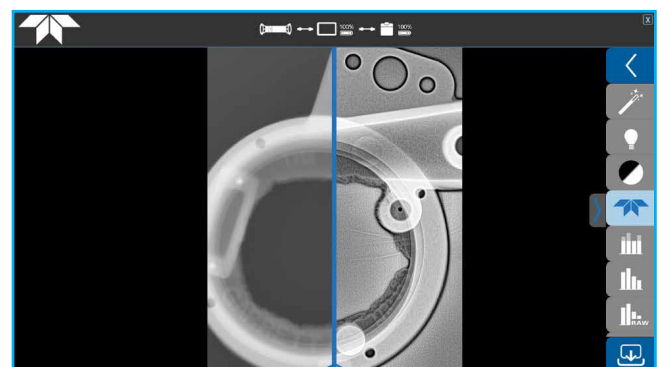
Stitching of multiple images



Wall thickness measurement



iSRb calculation and automatic IQI recognition



Without Teledyne Filter

With Teledyne Filter

# PORTABLE X-RAY SYSTEMS

Digital Radiography Solutions for NDT Applications

All specifications are non contractual and subject to change without prior notice.

**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.

**TELEDYNE ICM**

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