

# GO BEYOND THE COVER

Portable X-Ray Solutions for Threat Detection

**FLATSCAN30XS<sup>®</sup>**  
by  **TELEDYNE ICM**

**FLATSCAN15XS<sup>®</sup>**  
by  **TELEDYNE ICM**



**TELEDYNE ICM**  
Everywhere you look™

Part of the Teledyne Imaging Group



**INNOVATIVE**



**LIGHT**



**USER-FRIENDLY**



**SAFE**

*“Our mission, at **TELEDYNE ICM**, is to facilitate professionals’ lives by providing innovative, user-friendly, and safe x-ray solutions, while accompanying them throughout the use of our products.”*

**GUIDO AELBERS - EXECUTIVE VICE PRESIDENT & GENERAL MANAGER**



# FLATSCAN

SEE THE UNSEEN





15 – 30" ACTIVE AREA



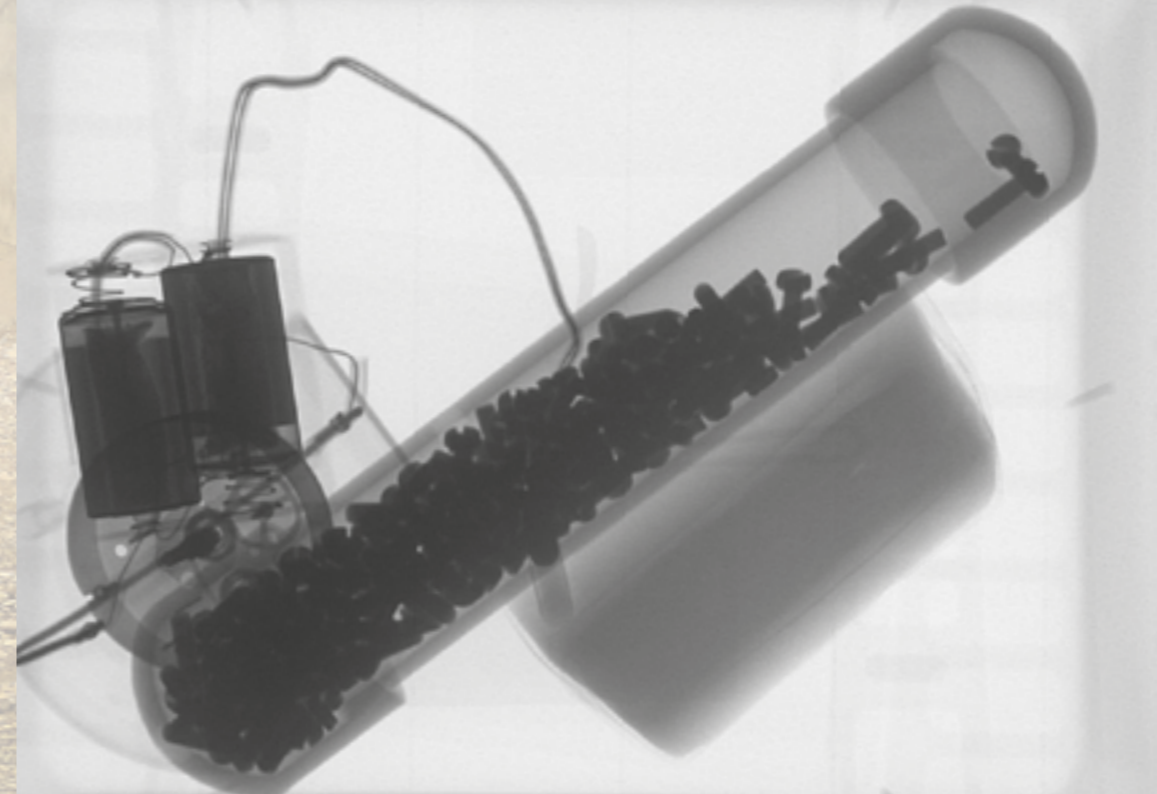
3.5 – 5.7 KG /  
7.7 – 12.6 LBS



USER FRIENDLY



STATE-OF-THE-ART  
IMAGE PROCESSING  
SOFTWARE



## EOD / IED

The current climate in which we live in, unfortunately calls for important measures to secure the public and military personnel in various regions around the globe. The increasing presence of IED's (improvised explosive device) obliges bomb squad teams to find new and innovative ways to asset threats quickly and accurately. With x-ray scanners as large as 30" across, the FLATSCAN XS range truly is the perfect partner for every EOD expert out there.



## BORDER CONTROL & CUSTOMS

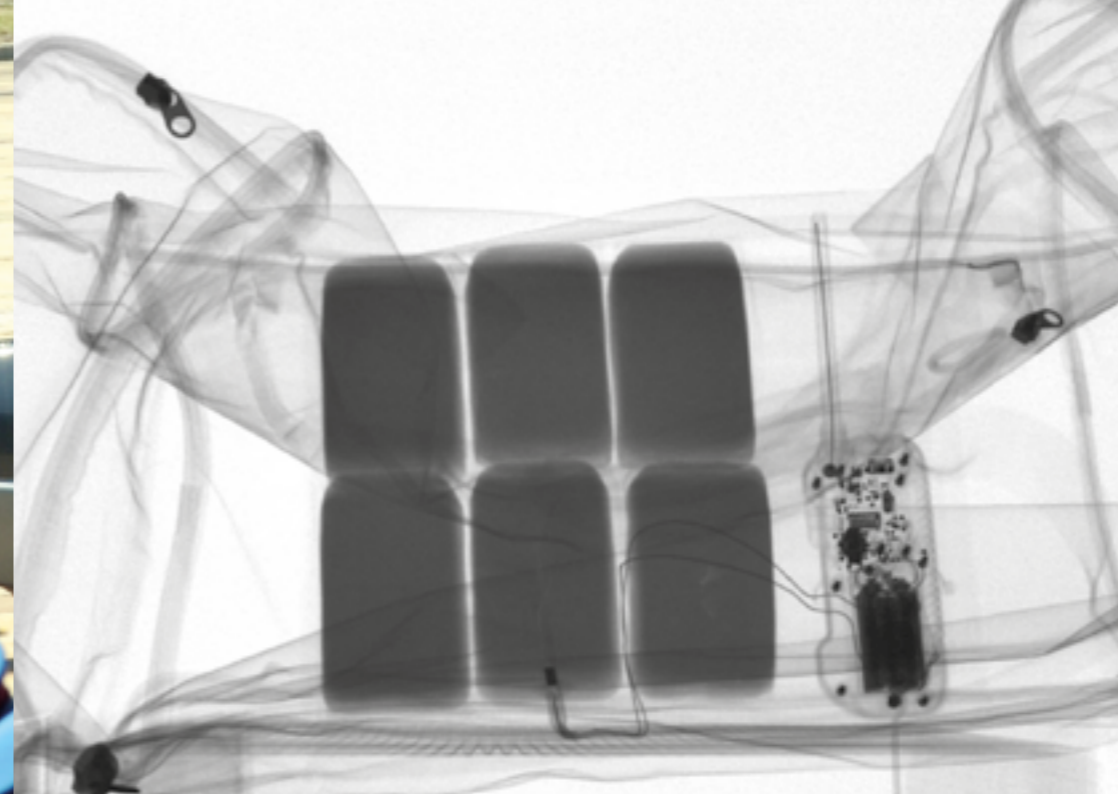
Smuggling and drug trafficking remain an important issue for many countries the world over. Cartels and smugglers keep inventing innovative and sophisticated tricks to cross borders and customs with illicit goods. With the power of x-rays and the new FLATSCAN XS range, custom agents now have the upper hand. Being able to penetrate up to 45 mm of steel, the FLATSCAN systems can inspect a vast variety of vehicles in a few seconds, revealing even the most hidden items. Thanks to FLATSCAN's dual energy function, boarder agents also have the possibility to differentiate organic from non-organic material in seconds, clearly highlighting the presence of drugs in the item being inspected.





## VIP PROTECTION

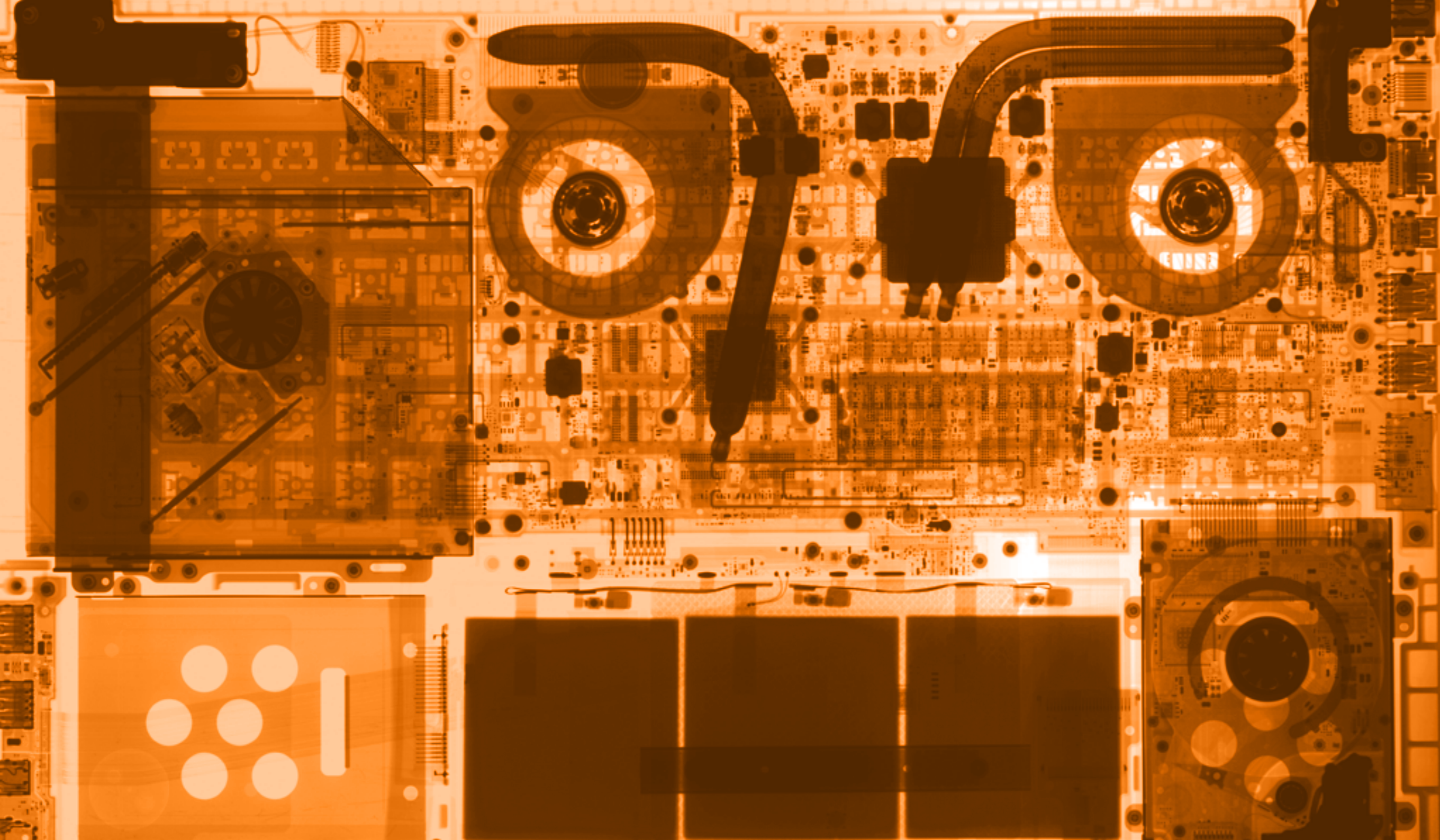
Government officials, celebrities and other VIP's are constantly in need for innovative and advanced security measures to ensure their own protection and privacy. This is the reason why, blue chip personal protection companies make use of state-of-the-art portable x-ray systems such as the FLATSCAN15 & 30 XS. In just a few minutes, an entire room can be checked for explosives, drugs, or surveillance devices and make sure the safety and privacy of the person of interest is safe kept.



## BAGGAGE SCANNING

Unfortunately, unattended packages in public areas such as airports, stadiums and hospitals always represent a potential security threat to the public. Teledyne ICM's FLATSCAN30 XS is equipped with the largest detection area on the market. With this 30 inches diagonal detector, security experts are able to accurately analyze and detect a vast majority of threats in a single shot without having to move or touch the biggest items. Even if two or more shots are required, the FLATSCAN software can automatically stitch images together as to get a single picture of the object inspected, facilitating the decision-making process.





# PFFILMS

PAPER THIN





**SELF-DEVELOPING**



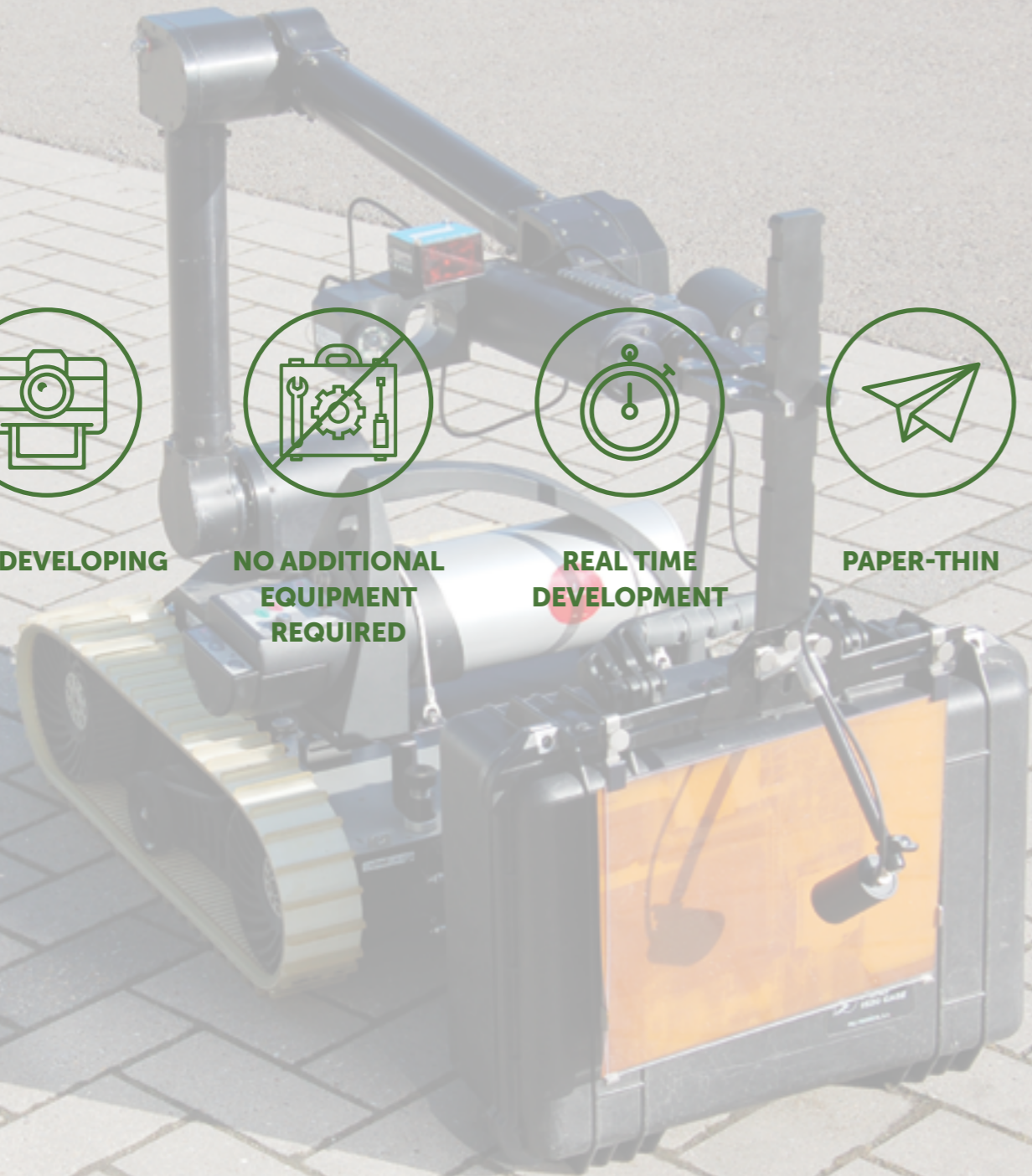
**NO ADDITIONAL  
EQUIPMENT  
REQUIRED**



**REAL TIME  
DEVELOPMENT**



**PAPER-THIN**



## PRECISION WORK

Since moving a potential explosive item can be critical, some cases call for scanning processes able to slip between suspicious items and other surfaces. Teledyne ICM's PF FILMS have been developed to be the most easy-to-use and rapid self-developing x-ray films on the market. In just a few seconds, security experts are able to accurately analyze and detect threats without having to move or touch the most unreachable items.



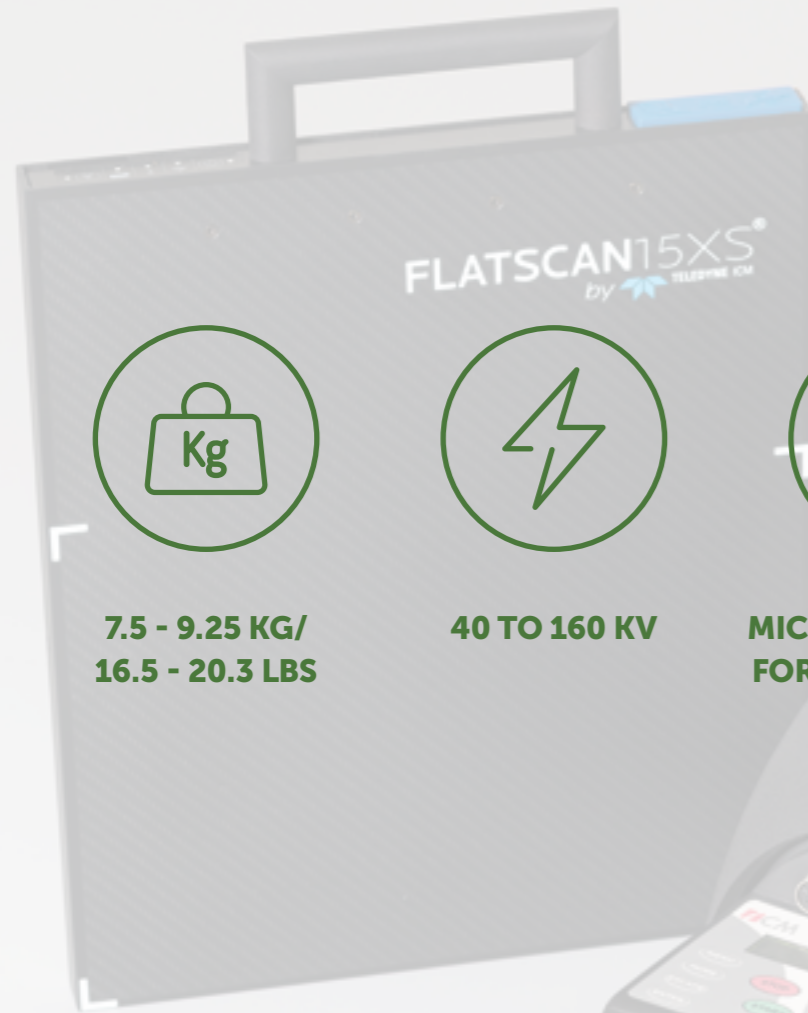





# CPBATTERY


**EVERY BATMAN NEEDS HIS ROBIN**








FLATSCAN15XS<sup>®</sup>  
by Teledyne ICM

  
**7.5 - 9.25 KG/  
16.5 - 20.3 LBS**

  
**40 TO 160 KV**

  
**MICRO FOCAL SPOT  
FOR BETTER IMAGE  
QUALITY**

  
**CONSTANT  
POTENTIAL  
X-RAY OUTPUT**



## SPECIAL FORCES

Crisis management always necessitates quick moves and accurate analysis to ensure the best decision-making process possible. In combination with Teledyne ICM's most compact scanning solutions, the FLATSCAN15 XS and the PF FILMS, the battery operated x-ray generator; the CP120B, translates Special Forces' needs into state-of-the-art, user-driven, and extremely compact x-ray solutions. With its extra compactness and unmatched power, the CP120B embodies the true expertise of our engineers and the perfect companion for our FLATSCAN XS range.

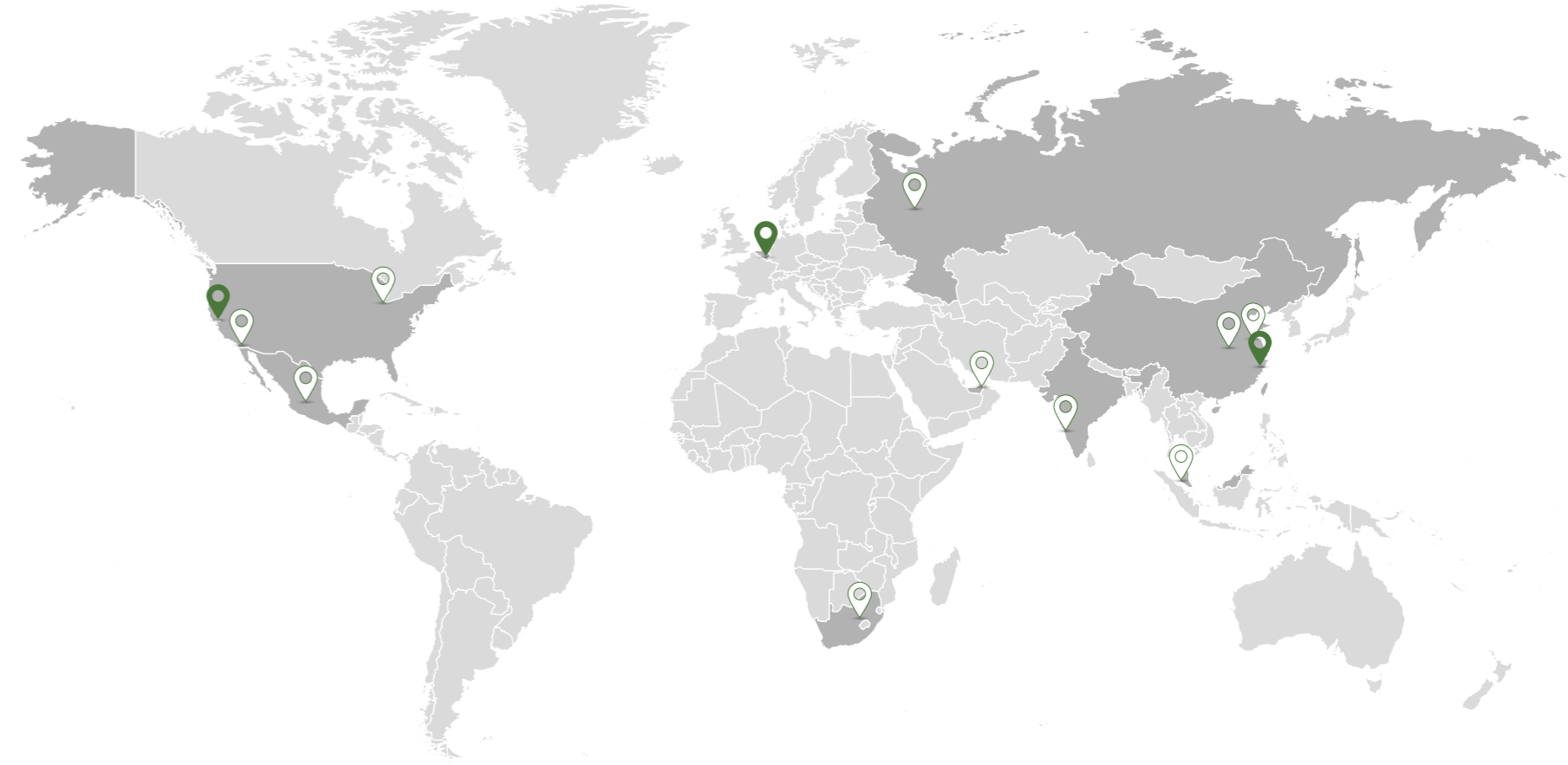
Part of the Teledyne Imaging Group, **Teledyne ICM** has been a wholly owned subsidiary of Teledyne Technologies Incorporated since 2015. Established over 20 years ago, we specialize in the development and manufacturing of portable x-ray generators and scanners for Security purposes and Non Destructing Testing.

On the back of a portfolio that counts more than 30 different products, including the now well-known SITEX and SITEX CP ranges, as well as the security detectors FLATSCAN, we at Teledyne ICM continue to grow year upon year.

With a staff close to 50 people including engineers, physicists, sales & marketing professionals, as well as highly trained technicians, Teledyne ICM is more than ever, the leading company when it comes to meeting the x-ray needs of a wide variety of users.

Today, Teledyne ICM is enthusiastically operating in more than 110 countries worldwide and is more than ever ready to bring innovative x-ray solutions to the world.

**Teledyne ICM – Get more out of x-Rays**



 HEADQUARTER       AFTER-SALE



# SPECIFICATIONS

GOING INTO DETAILS

# PRODUCT RANGES / FLATSCAN 15 XS / 30 XS

X-RAY DETECTOR	FLATSCAN 15 XS
Sensor type	Linear diode array
Resolution	40 AWG / 1.25 lp/mm
Pixel size	400 µm
Dynamic range (Grey levels)	16 bits
Active area	307 x 230 mm (15.1 inches diag.)
Maximum penetration	35 mm / 1,3" of steel (with CP120B) 45 mm / 1,7" of steel (with CP160B)
Number of covered side (edges)	3 (left, bottom, right)
Dead zone	5 mm / 0.2" (from bottom), 7 mm / 0.3" (from side)
External dimensions (H x W x T)	425 x 320 x 25 mm / 16.3 x 15.6 x 1"
Weight	3.5 Kg / 7.7 Lbs
Operating temperature	-10 to +50°C / +14 to +122 °F
Storage temperature	-10 to +65°C / +14 to +158 °F
Communication protocols	Bluetooth / Wifi 082.11n or cable driven (optional)
Work with	CP120B / CP160B X-ray generators
Imaging Station	Notebook, toughbook, tablet, toughpad

## SOFTWARE FEATURES

Histogram
Pan, Zoom; Distance measurement
Reverse black & white
Pseudo color
Deep focus
Low battery alarm
X-Ray source parameters adjustable
Materials separation
Emboss
Stitching

X-RAY DETECTOR	FLATSCAN 30 XS
Sensor type	Linear diode array
Resolution	Up to 40 AWG / 1.25 lp/mm
Pixel size	400 µm
Dynamic range (Grey levels)	16 bits
Active area	615 x 460 mm (30 inches diag.)
Maximum penetration	35 mm / 1,3" of steel (with CP120B) 45 mm / 1,7" of steel (with CP160B)
Number of covered side (edges)	3 (left, bottom, right)
Dead zone	5 mm / 0.2" (from bottom), 7 mm / 0.3" (from side)
External dimensions (H x W x T)	665 x 628 x 25 mm / 26.2 x 24.7 x 1"
Weight	5.7 Kg / 12.6 Lbs
Operating temperature	-10 to +50°C / +14 to +122 °F
Storage temperature	-10 to +65°C / +14 to +158 °F
Communication protocols	Bluetooth / Wifi 082.11n or cable driven (optional)
Work with	CP120B / CP160B X-ray generators
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## SOFTWARE FEATURES

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Materials separation
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Stitching

## PRODUCT RANGES / X-RAY SOURCES

X-RAY SOURCES		CP120B	CP160B
Waveform	-	Constant Potential	Constant Potential
Maximum kV	kV	120 kV (adjustable from 40 to 120 kV)	160 kV (adjustable from 40 to 160 kV)
Maximum mA	mA	0.1 to 1.5	0.1 to 0.5
Exposure time	sec	Adjustable from 1 to 300 sec	Adjustable from 1 to 300 sec
Pre-warning time	sec	Adjustable from 1 to 99 sec	Adjustable from 1 to 99 sec
Optical focal spot according to EN12543	mm / in	0.8 x 0.5 / 0.03 x 0.02	0.8 x 0.5 / 0.03 x 0.02
Beam angle	°	50 x 50	60 x 60
X-ray tube life	YY	> 10 years of daily use	> 10 years of daily use
Battery	-	Li-Ion 37 V 1400 mAh	Li-Ion 37 V 1400 mAh
Weight	Kg / Lbs	7.5 / 16.5	9.2 / 20.3





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### **TELEDYNE ICM**

Zoning Les Plenesses  
Rue Du Progrès 3  
B-4821 Andrimont (Dison) - Belgium

Phone: +32 (0)87 44 01 50  
Fax: +32 (0) 87 44 01 60  
E-mail: [icm.sales@teledyne.com](mailto:icm.sales@teledyne.com)

### **TELEDYNE ICM USA**

3400 Garrett Drive  
Santa Clara, CA 95054 - USA

Phone: +1 408 200 6760  
E-mail: [Kirk.Sanford@Teledyne.com](mailto:Kirk.Sanford@Teledyne.com)

### **TELEDYNE ICM China**

Room G, 20F, 18 North Cao Xi Road  
Shanghai 200030 - China

Phone: +86-21-6427 9081  
Fax: +86-21-6469 9430  
E-mail: [elva.shi@teledyne.com](mailto:elva.shi@teledyne.com)

[www.teledyneicm.com](http://www.teledyneicm.com)

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