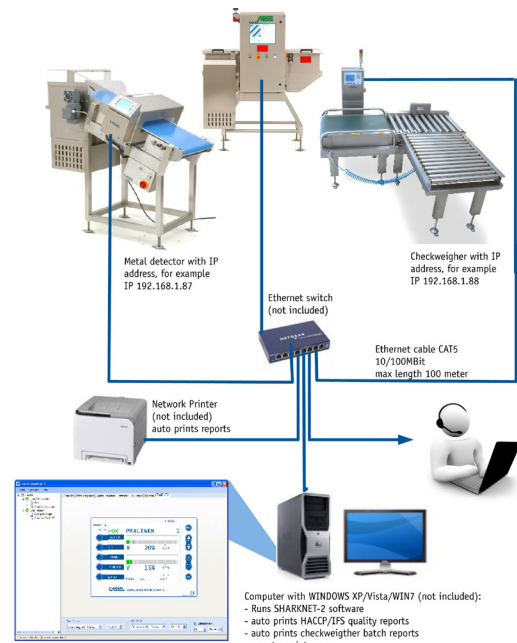# SHARKNET® 2 SOFTWARE

SHARKNET-2 software networks all METAL SHARK metal detectors, checkweighers and x-ray systems on to a single Windows based computer.

- Managers can monitor real-time inspection results and actively manage multiple product inspection equipment from a central computer
- Remote maintenance capability by operators and Cassel technicians
- Traceability of all operational data including metal alerts, batch and average weight reports, parameter changes, PVS results, errors and product passes
- All data is stored in an SQL database for easy export
- Auto report printing for simple HACCP-SQF 2000-BRC-GMP-IFS5-FSSC 22000/PAS 220 compliance
- Backup of all stored parameters

Enhanced features include:

- Quick, easy viewing and printing of HACCP reports
- Backup and restoring of metal detector parameters
- Software password protection

METAL SHARK® Comparison Chart

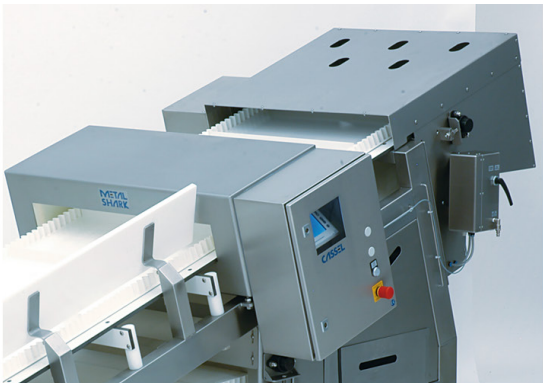|	Shark-1	Shark-2	SharkNET
Technology	2-Channel analysis	4-Quadrant Technology	Same as controller
Display	Alphanumeric LCD	5.4" color screen	Computer LCD
Frequencies	1, 2 or 4	1, 2 or 4	Same as controller
Sensitivity	Normal user achieves 80% of metal detectors maximum performance without expert optimization	Normal user achieves 90% of metal detectors maximum performance without expert optimization	Same as controller
Teach	8 to 14 samples	3 to 7 samples	Same as controller
Interference	Strong digital filters	Excellent digital filters	Same as controller
Outputs	(2) Potential Free, (4) Programmable	(2) Potential Free, (8) Programmable	Same as controller
Inputs	(4) Programmable	(8) Programmable	Same as controller
Language	Latin characters only	Global languages available	Same as controller
Memory	Integrated flash for 50 events	Integrated flash for 1000 events	Unlimited data logging capabilities in SQL database
Parameter Backup	No	No	To computer hard drive
Number of Custom Products	120	120	Same as controller
Temperature	Standard: temp. -10 to + 50 °C, humidity 30 to 85% not condensing	Standard: temp. -10°C to +40°C, rel. humidity 30 to 85% not condensing; Options: -40°C or +55°C	Same as computer
Power Input	85-264 V AC, 50/60 Hz, 1P, self selecting	85-264 V AC, 50/60 Hz, 1P, self selecting	Same as computer
Communication Interface	RS232, RS485	RS232, Ethernet and optional WLAN	Same as computer
Password protection	1 Level	4 Levels	Software is password protected
Control of multiple systems	No	No	Yes
Remote Maintenance	No	No	Yes
Auto printing of reports	Metal event only to industrial printer	Yes, any report to network printer	Any report to PDF or network printer
Performance Validation Software	Yes	Yes	Yes

Metal Detector Controller Options

CASSEL

Committed to the highest standards of excellence, MPI's goal with Cassel is to ensure the quality of our customers' products by providing the most reliable, sensitive, and easy-to-use metal detectors in the world.
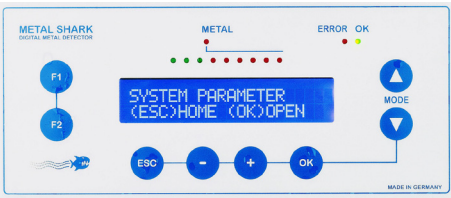
Cassel metal detectors are so user-friendly, manufacturers can enjoy the benefits immediately after installation. Cassel's straight-forward operating system quickly guides users through the steps needed to set up and operate the metal detector. Cassel's integrated Metal Shark® 1 and Metal Shark® 2 controllers are designed for intuitive operation. Technical personnel are not required to operate the metal detector making Cassel metal detectors among the simplest and easiest to operate.

Cassel's exclusive four-quadrant technology provides extreme sensitivity that far surpasses the reach of competitive products. Cassel metal detectors boast the latest four-channel DDS (direct digital synthesizer) and DSP (digital signal processing) technology. State-of-the-art digital technology eliminates costly maintenance. Once set, the unit will not require further adjustment from the manufacturer, cutting the cost of ownership.

Complete Metal Control
Solution Provider

METAL SHARK® 1 Controller

Outstanding sensitivity, accuracy and stability, plus simple, intuitive operation.
- For industrial applications
- For recycling applications
- For facilities with only one metal detector
- When formal documentation is not required

No Maintenance Electronics
Automatic balance and calibration of electronics ensures many years of reliable performance- after set up, no further adjustment of electronics is needed!

Single Board Technology
SMD technology allows all circuits to be miniaturized and housed on a single multilayer control boards. In the unlikely case of a malfunction, most in-house electricians can easily replace the board.

Intuitive Operation
Concise screens show only the information needed to operate the detector. Easy-to-use software and a simple teaching menu allow nontechnical personnel to quickly set up and operate the unit. Password protection guards against unauthorized use.

Product "Teach"
One-button teach – only one button needed to capture and teach the metal detector.
Product library – 120 different product recipes can be easily stored and recalled.
Automatic error detection – errors are displayed on a separate output contact.

Sensitivity and Stability
- Auto calibration enables easy and fast teaching of product features with pre-sets, such as "DRY," "WET," "SALTY" and "MEAT," make teaching quick and easy
- Phase tracking – metal detector readily adjusts and compensates for product effects
- Precise metal detection – digital noise filters eliminate undesired signals
- Multichannel technology provides optimal detection of ferrous and nonferrous (aluminum or copper) metals, and stainless steel

Available enclosures
All available with Metal Shark® 1 or Metal Shark® 2 controllers

Standard (IP65)

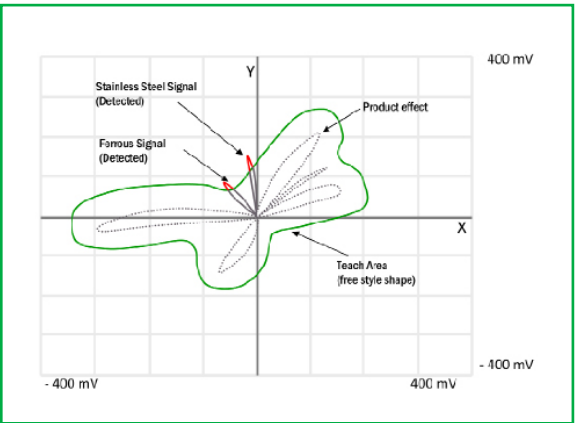W380 Dust Tight Industrial (IP54)

HPW High Pressure Washdown (IP69K)

LPW Low Pressure Wash-Down (IP67)
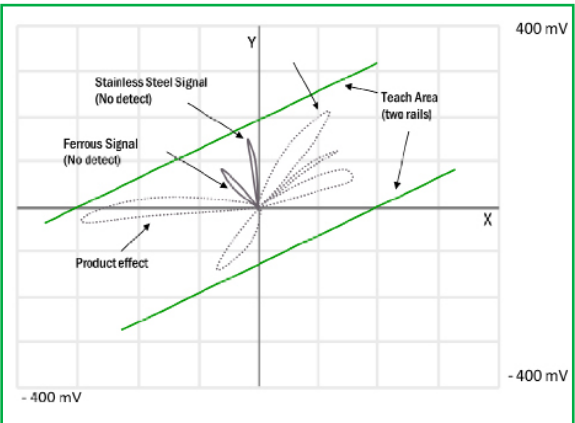
METAL SHARK® 2 Controller

The METAL SHARK® 2 controller sets a new benchmark for metal detector performance and ease of use. A simple set up and an intuitive interface makes operation quick and easy. Cassel's exclusive four-quadrant technology allows the detector to find the smallest pieces of metal contaminant.
- For facilities with more than one metal detector
- For complex applications
- When formal documentation is required
- When multiple languages are required

Cassel's METAL SHARK® 2
Free style teach area

Four-quadrant technology allows a 360° analysis of the product "signature." Because the metal threshold follows the signature, the Cassel metal detector is able to detect metal in areas of the product where other competitive units cannot.
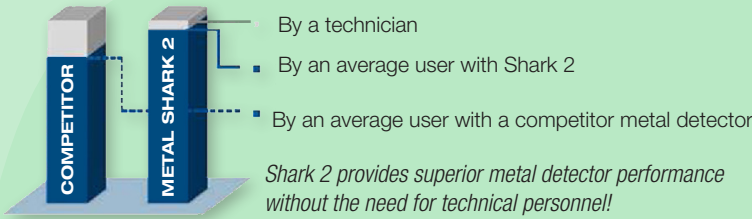

Other Metal Detectors
Two rail teach area

Competitive metal detectors use "two-rail" technology to predetermine the teach area. Some metal signals will not be detected because they fall between the two rails.

Easy Set-Up
- 5.4" full-color screen
- On-board "assistant" guides operators through set up and teach processes

Effective and Efficiency
- Easily switch between stored products
- Multi-language capable
- Four-level password protection
- Performance validation software (PVS) with operator prompts

Automatic and Detailed Documentation
- Equipment adjustments are recorded and documented
- One-button printing of IFS5, HACCP, SQF and BRC compliance reports
- Off-site operation available
- Histograms and diagrams show product signals and recent metal events

Maximum Performance

- By a technician
- By an average user with Shark 2
- By an average user with a competitor metal detector

Shark 2 provides superior metal detector performance without the need for technical personnel!