



Modern Imaging Technology

IR, Ultrasound and A.I. Assisted Inspections

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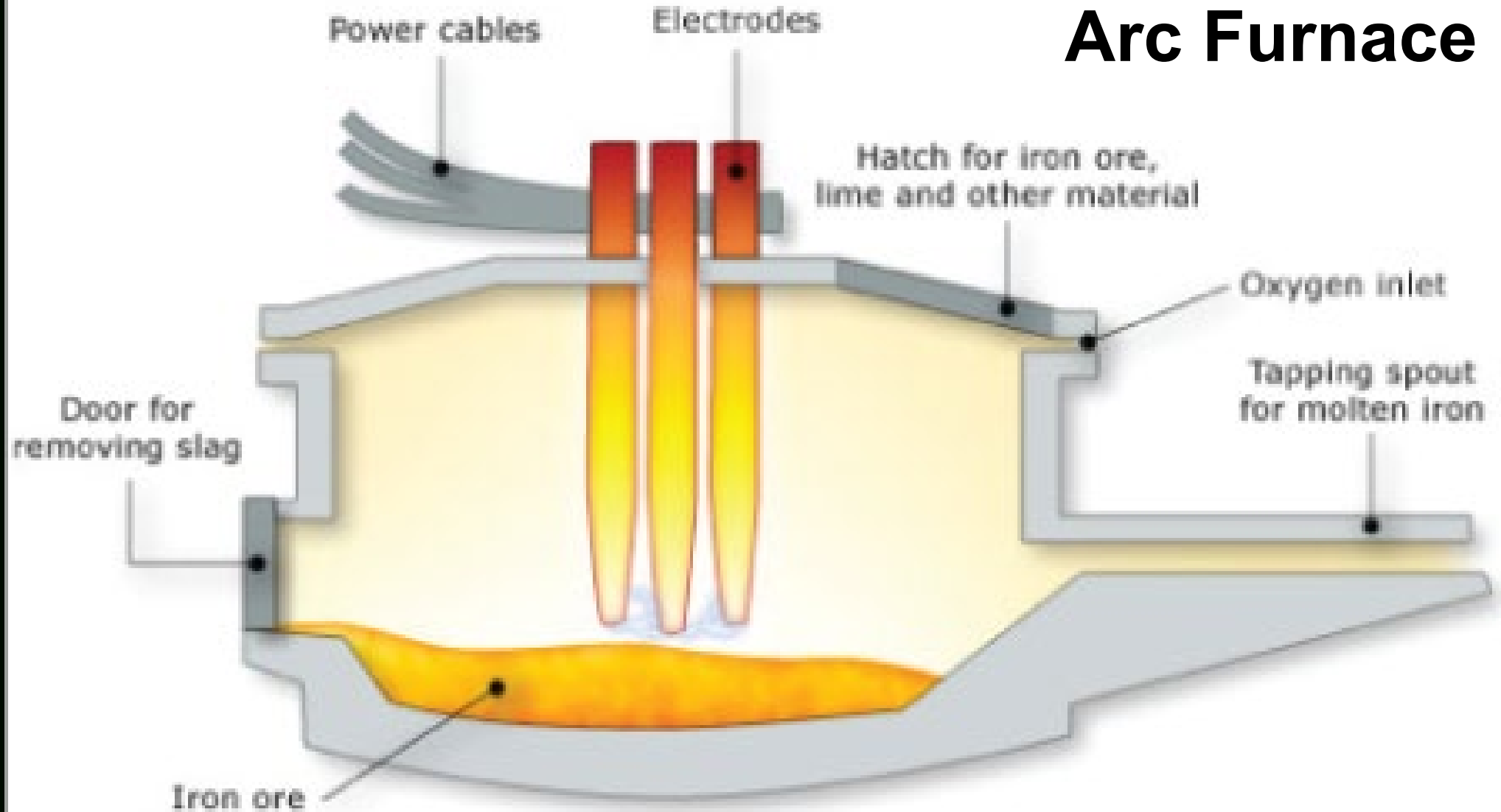
RISK MITIGATION



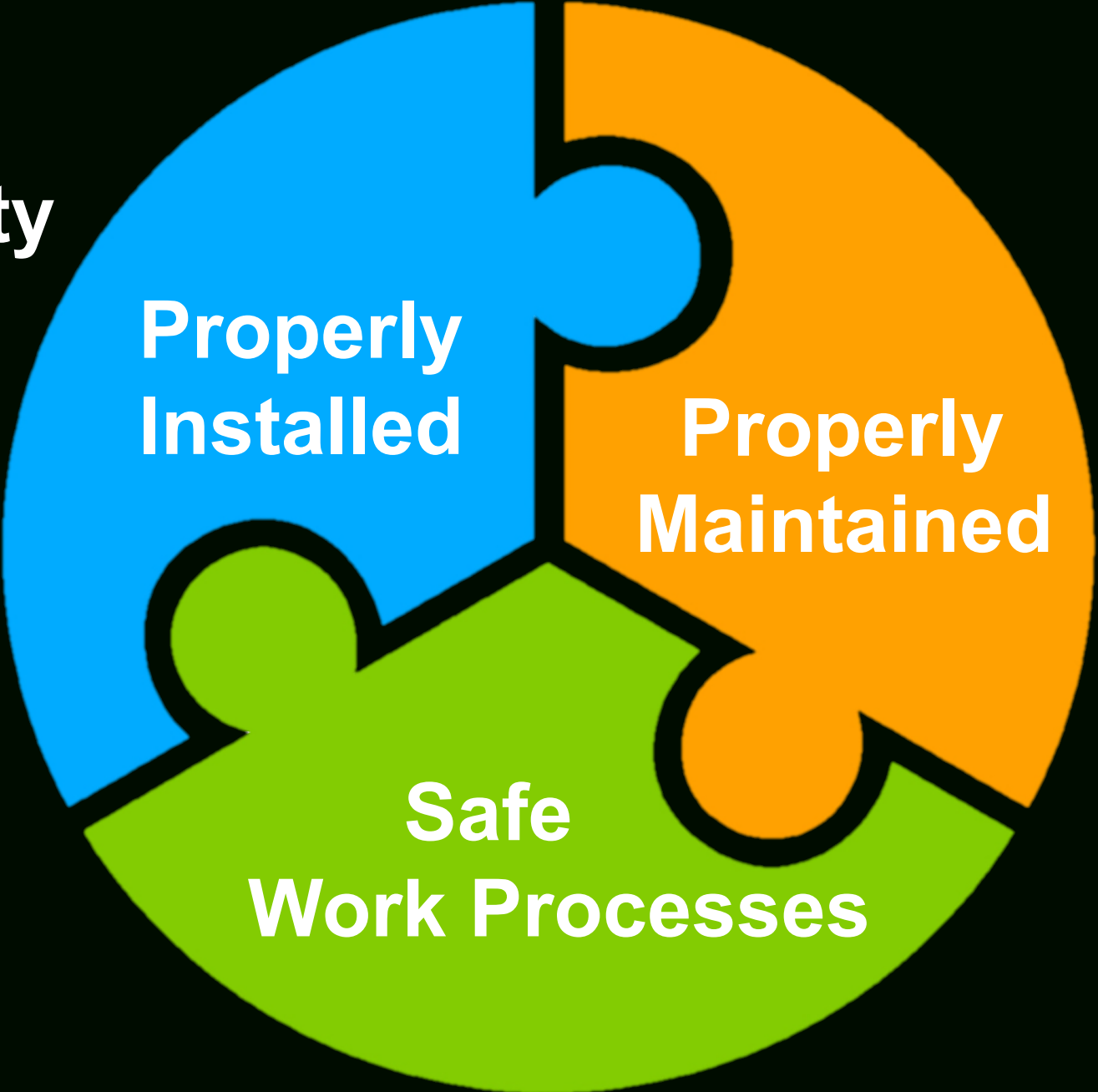
Protection

Prevention

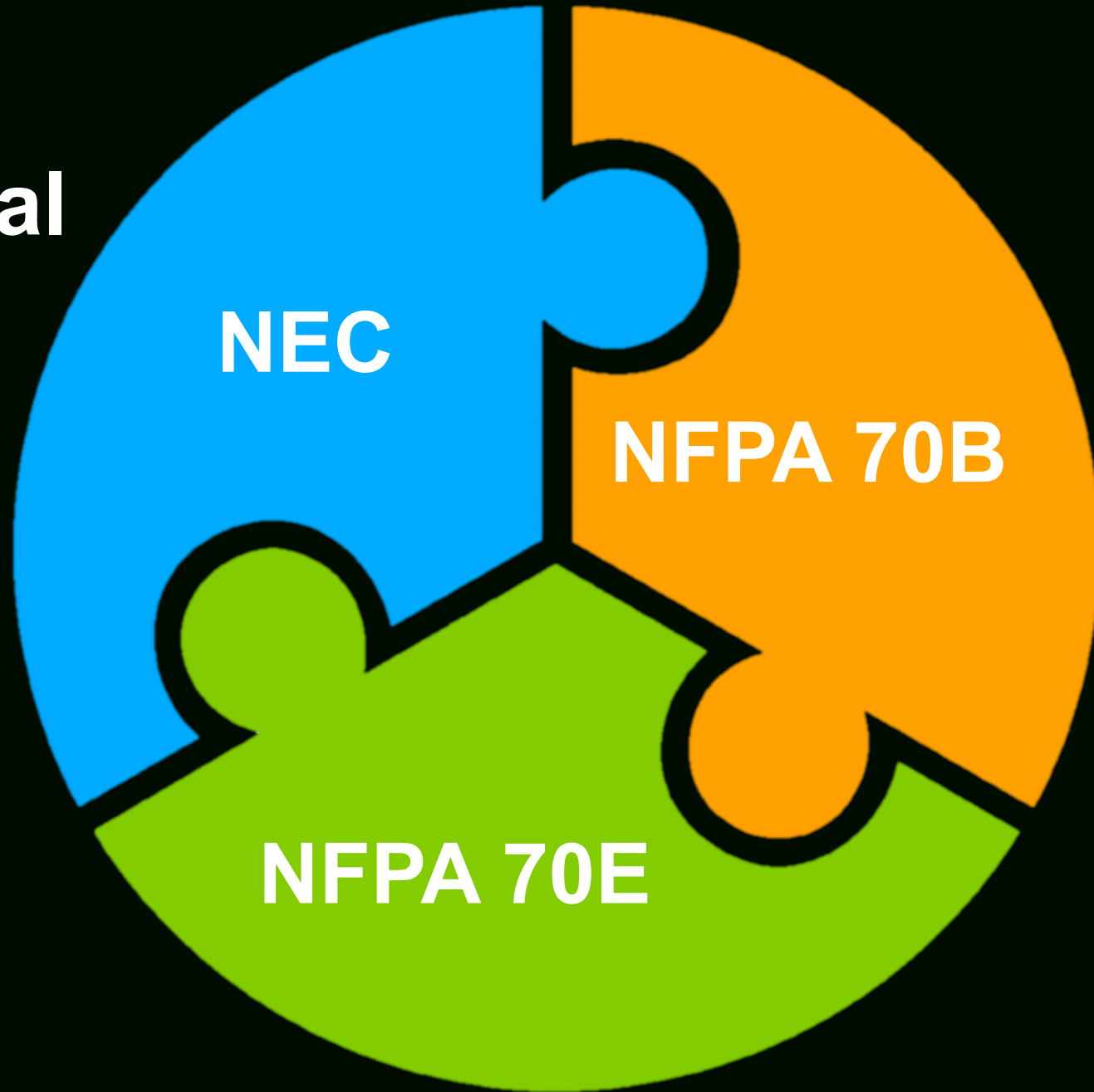
Arc Furnace



**Safety
Puzzle**



**Electrical
Safety
Puzzle**



“Properly Maintained”

NFPA 70E

- Normal Operating Condition
- Owner Responsibility
- Clearance Times

NFPA 70B

Electrical Equipment Maintenance Standard

- Equipment SAFETY Standard
- Mandatory
- Tasks & Intervals Based on Condition

NFPA 70B

Mandated Maintenance Tasks

- Infrared – All Equipment (6-12 mo)
- Partial Discharge – MV & HV (12-60 mo)
- Corona – Substa. Insulators (4-12 mo)

Challenges

How Do Facilities Inspect

- More Points
- More Frequently
- Reduced Manpower

Solution

More Efficient Inspection / Monitoring Tools

- IR Windows
- Online Monitoring
- A.I. Assisted Imagers

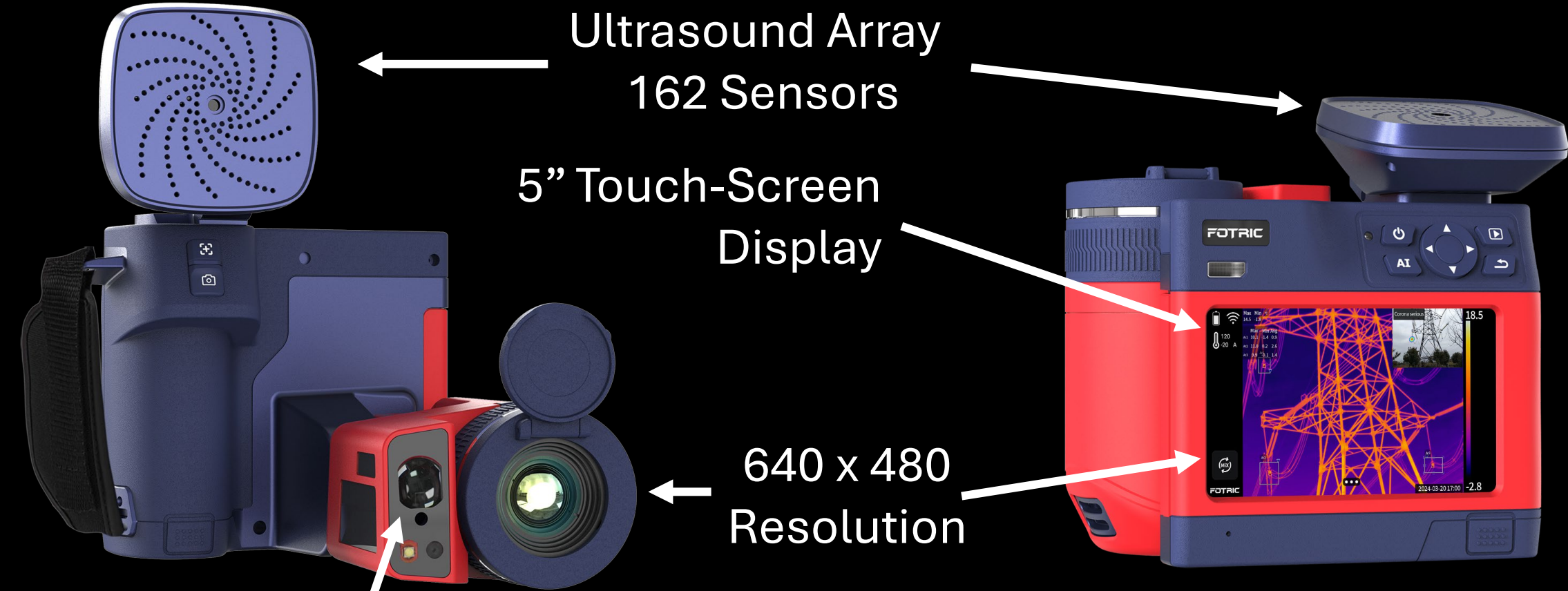
Exiscan Hybrid Imagers by Fotric



Exiscan Imagers by FOTRIC



Exiscan XA-640H by Fotric



Ultrasound Array
162 Sensors

5" Touch-Screen
Display

640 x 480
Resolution

13MPxl Camera

Exiscan XA-640H by Fotric

Sony
Audio-Visual Module Visible
Light CMOS Camera

Knowles
Audio-Visual Module Microphone

Qualcomm
Main Chip of MCU Platform

Microchip
EEPROM

Texas Instruments
Dedicated Power
Management IC

LG
Battery Cell

Xilinx
FPGA

Micron
DDR

Lynred
Long Wave Infrared Sensor

Camera Demo

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Work Smart – Stay Safe

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