

COEN



THE INDUSTRY'S MOST ADVANCED FLAME SCANNER

INGENUITY DEFINES A NEW STANDARD

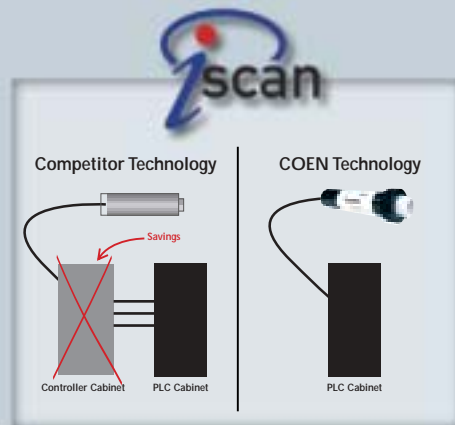
Finally, revolutionary scanner technology that simplifies your operations and provides significant cost savings. Once again, COEN leads the way by developing the most advanced flame scanning solutions while maintaining the highest quality standards.

Our latest design, the *i*scan, is a new scanner product that integrates the scanner and signal processor into one package. By eliminating a separate signal processor, *i*scan reduces cost and simplifies installation. *i*scan also cuts setup time with powerful, but user-friendly, Windows™-based software. *i*scan is suitable for both single burner and multiple burner applications, and for gas, oil, coal, and other fossil fuels.

The Cost-Effective Solution

By integrating the signal processor and scanner into a single housing, *i*scan provides the following cost saving benefits:

- Eliminates expensive control cabinet hardware
- Field wiring minimized
- Reduces technician training time
- Easy installation reduces commissioning time
- Control cabinet space freed for other equipment
- No special cable required



The Rugged Solution

Like all COEN products, *i*scan is built to be durable and reliable.

- Solid state detector
- High reliability/low maintenance
- Eliminates electrical noise problems
- Electronic **self-checking** "no mechanical shutter"
- Compact configuration allows easy positioning in tight burner front area
- EASI (Electronically Assisted Sight Indicator) simplifies sighting (NEMA 4, 4x Model)
- Lightweight design avoids the need for frequent realignment
- NEMA 4, 4x or for Class 1, Div 1 & 2, Group B, C, & D Hazardous Area

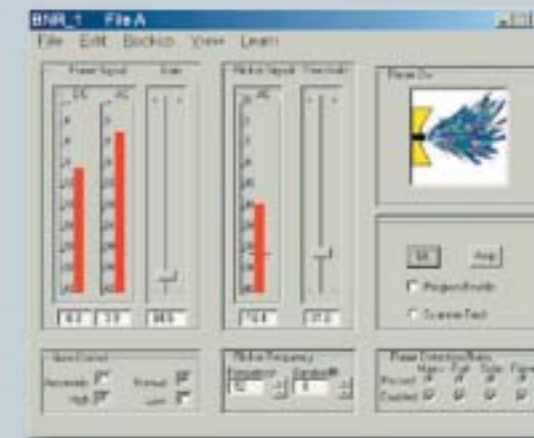


THE SIMPLE SOLUTION

The microprocessor-based design, Windows™-based software, and real-time displays make *i*scan user-friendly. System status, individual burner status and flame signal data are always at your fingertips.

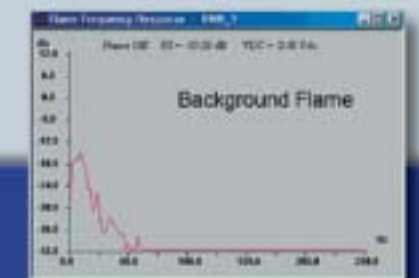
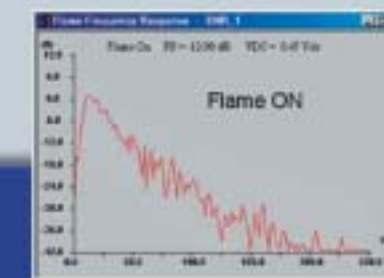
The System Display

- PC-based interface
- All adjustments are digital
- Extensive diagnostics display
- View any number of burners
- Obtain information on learned results and current status instantly
- Shows Flame-on / Background (Flame-off) Ratio



The Setup/Program Display

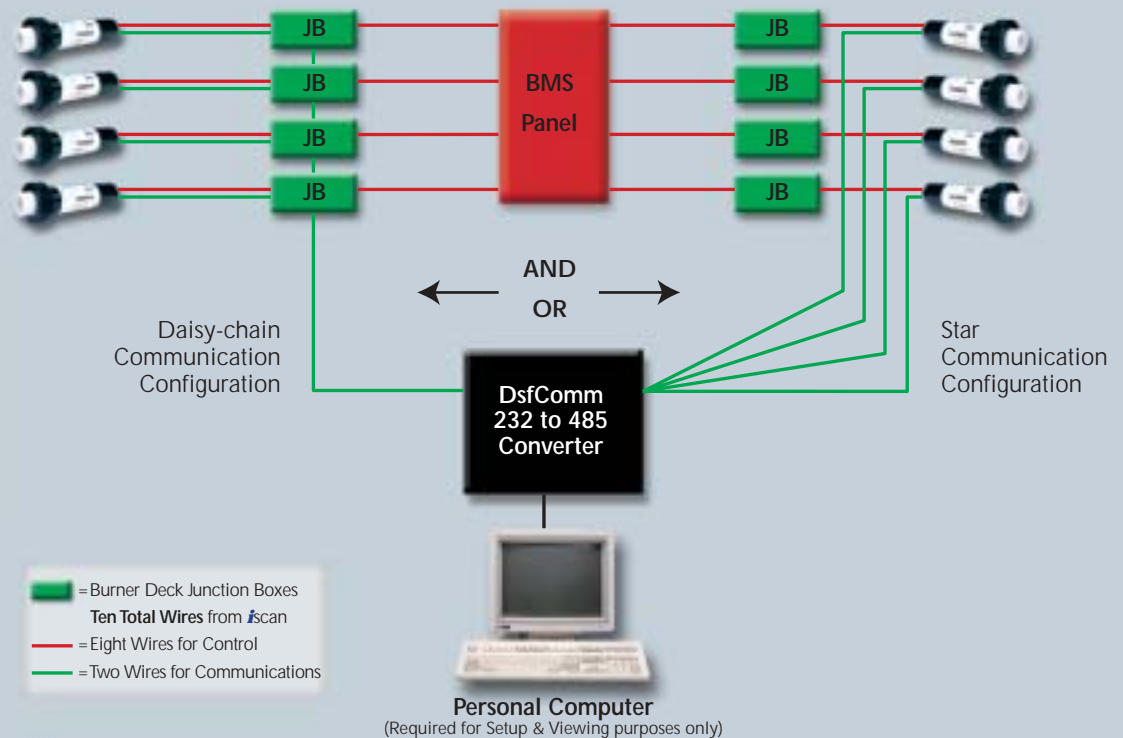
- On screen adjustments save setup time compared to manual systems
- **Self-learning** "wizard" simplifies adjustments by learning flicker frequency, bandwidth and threshold
- Flame-on icon readily visible
- Flame and flicker frequency status displayed
- Automatic gain adjustment for manual setup
- Gain, threshold, flicker frequency & bandwidth easily tuned on screen
- Multiple file selection available
- Internal temperature indication
- Alarms display
- Backup to hard drive or floppy disc



The Flame-on / Background Display

SUPERIOR PRODUCT PERFORMANCE THROUGH TECHNOLOGY & EXPERIENCE

SCANNER WIRING CONFIGURATIONS



SCANNER SPECIFICATIONS

Power:	24 VDC nominal, 2.9 VA (120 mA), 20-28 VDC operational
Electrical Connection:	Factory installed cable, 10 foot (3 m), multi-conductor shielded cable
Inputs:	Two digital remote file selects
Relay Output:	One normally open voltage free (dry) flame relay contact
Analog Output:	4-20 mA. (Current Source)
Communications:	RS485, 19.2 KB, 127 scanners per loop, up to 5,000 ft (1500 m)
Response Time:	1-4 seconds adjustable
Environmental:	-22°F to 158°F (-30°C to 70°C)
Relative Humidity:	100%, condensing
Housing & Weight:	NEMA 4, 4x (3.41 lb, 1.54 kg), NEMA 4x and Class 1, Division 1 & 2, Groups B, C & D (3.8 lb, 1.72 kg)
Approvals:	FM, UL, CSA approved
Software:	DSF COMM Software included (Windows 95, 98, 2000 & NT)
Warranty:	Two (2) years

With a solid state detector, our on-board digital signal processing and sophisticated, high quality electronics, the *iScan* series is the most technologically advanced scanner available today.

For more information, contact your nearest COEN representative.



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Visit our website at
www.coen.com
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