

Detect Fire Before It Escalates

DHI-HY-FT443HFP

Wisualarm Flame Detection Network Camera Pro

A certified flame detection camera
that bridges **Fire Safety** and **CCTV**.



EN54 Certified
(EN 54-10)



**Triple IR
Flame Detection**
3.8 μm , 4.5 μm , 5.0 μm



**Thermal + Visible
Imaging**
See the situation.
Verify the alarm.



**AI-Powered
Early Warning**
Smoke and flame
shape detection

FIRE SAFETY MEETS VIDEO INTELLIGENCE

From Detection to Fire Intelligence

Detect the Fire. See the Situation. Respond Faster.

A certified flame detection camera that bridges professional fire-grade detection with modern video surveillance — enabling you to detect, verify, assess and respond faster, with greater confidence.



DETECT

Multi-spectral detection identifies the fire event.



VERIFY

See the situation with thermal and visible-light video.



ASSESS

Understand the risk and development of the incident.



RESPOND

Trigger alarms and link to external systems for faster action.



INVESTIGATE

Access recorded video for analysis, root-cause assessment and insurance claims.

Professional Fire Detection

Certified. Reliable. Multi-Spectral.



- ✓ EN 54-10 certified flame detection
- ✓ Triple IR + thermal + visible-light imaging
- ✓ Class 1 / Class 2 / Class 3
- ✓ Designed for industrial and high-risk applications

Video Verification

See More. Know More.



- ✓ 5 MP visible-light imaging
- ✓ Real-time visual verification
- ✓ Video evidence before, during and after
- ✓ Supports faster, more informed decisions



More Than a Fire Detector. A Safer, Smarter Tomorrow.

Integrating certified flame detection with video surveillance for greater safety, operational confidence and peace of mind.

EN 54-10 CERTIFIED

Multi-Spectral Flame Detection

Triple IR + Thermal + Visible Light
for reliable fire detection.

Combining proven flame detection technology with advanced visual intelligence, the DHI-HY-FT443HFP delivers early and accurate fire detection for industrial and high-risk environments.



3.8 μm



4.5 μm



5.0 μm

FLAME
SIGNATURE

Triple IR technology identifies the unique flame signature across multiple wavelengths, improving detection accuracy and reducing false alarms.



EN 54-10 Certified

Class 1: 25 m
Class 2: 17 m
Class 3: 12 m
(Test flame: 0.1 m² N-Heptane)



Detection Distance

28 m (target size: 33 × 33 cm)
20 m (target size: 20 × 20 cm)



Wide Field of View

Horizontal: 90°
Vertical: 90°

Three Infrared Bands. Higher Reliability.

3 infrared bands confirm the flame signature across the specified detection distances.
Sensitivity: 3-level settable.

AI Fire Analysis See Heat. See the Risk.

Multi-spectral detection for higher accuracy,
early risk assessment and fewer false alarms.

**Detect.
Verify.**

Reduce False Alarms.

AI-powered multi-spectral analysis combines thermal, Triple IR and visible-light information to identify real fire events with greater confidence. Accurate temperature monitoring helps detect heat rise and potential fire risks earlier.



Visible Light



Thermal



Triple IR

**Wide Temperature
Monitoring Range**

**-10°C to
+500°C**

Helps identify abnormal heat sources and early signs of fire, even in challenging environments.



Visible-Light Analysis

Provides real-time visual information to help verify alarms and understand the situation.



Thermal Detection

Detects temperature anomalies and heat patterns associated with fire events.



Triple-IR Flame Detection

Three infrared bands (3.8 μm , 4.5 μm , 5.0 μm) identify flame characteristics with high sensitivity.

Multi-Spectral Fusion

A thermal event must be supported by at least one additional detection channel before a fire alarm is triggered, helping reduce false alarms while maintaining reliable detection.



Thermal Event



Triple IR Verification



Visible-Light Analysis



AI Composite Decision



Fire Alarm

Key Benefits



Multi-spectral event verification



Reduced risk of false alarms



Improved detection reliability



Early risk identification



Ideal for industrial and high-risk environments

More Visibility. Greater Confidence.

Thermal imaging helps you see what's happening, assess the risk and take action before a small incident becomes a major event.



Industrial Facilities



Warehouses



Waste Management

Alert & System Linkage

Comprehensive alarm, fault and fail-safe monitoring for reliable fire protection.

Monitor the Fire — and the Health of the System.

Integrated alarm outputs and system monitoring to support faster, more reliable responses.



2 alarm outputs

Integrated alarm outputs for connection to fire alarm panels, sounders or other external equipment.



Up to 10 outputs

Optional alarm expansion module increases the number of outputs to up to 10 for larger or more complex systems.



Alarm, fault & status monitoring

Monitors fire alarms, fault conditions and abnormal system status to maintain visibility of operation.



Fail-Safe functionality

Abnormal conditions such as power loss can be communicated to the receiving system for early identification and maintenance response.



Flexible integration

Easily integrates with fire alarm panels, suppression systems, ventilation, access control and other external devices.

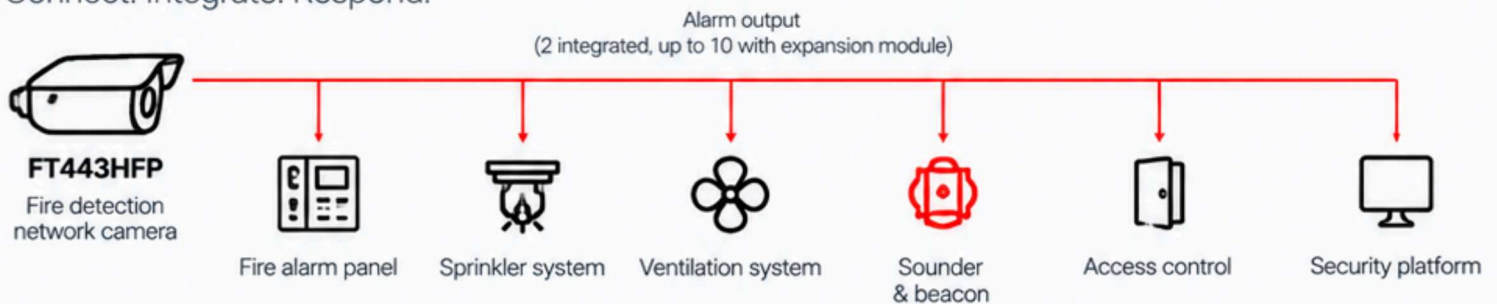


Audio capabilities

Built-in MIC and high-volume speaker (70 dB at 1 m) for remote communication and audio warning.

System integration example

Connect. Integrate. Respond.



Reliable Integration for Real-World Applications

Designed to meet the needs of professional fire protection and security systems, the FT443HFP provides flexible alarm and system linkage options to help you build a safer, more resilient environment.

TECHNICAL HIGHLIGHTS

DHI-HY-FT443HFP

Flame Detection Network Camera Pro

Key specifications at a glance.

**Thermal sensor**

VOx uncooled focal plane, 256 × 192

**Spectral range**

8 μm – 14 μm

**Triple IR flame detection**

3.8 μm, 4.5 μm, 5.0 μm

**Temperature range**

-10°C to +500°C

**Visible sensor**

5 MP 1/2.7" CMOS

**Illumination**

IR + white light, up to 50 m

**Alarm interface**

3 inputs, 2 outputs

**Protection**

IP67, operating -40°C to +60°C

**Storage**

Supports MicroSD card up to 256 GB*

**Installation**

Wall, ceiling or pole mount

* MicroSD card is not included and must be purchased separately.
Design and specifications are subject to change without notice.

Build the **Right System**

Flexible accessories and expansion options for different installation requirements.

Main Product



DHI-HY-FT443HFP

Flame Detection Network Camera

- Triple-IR flame detection
- Thermal and visible-light imaging
- EN54-10 certified
- Built-in MIC, speaker, red/blue warning lights
- IP67 rated
- 2 user-defined alarm outputs



DHI-HY-AM08E

Alarm Expansion Module

- Increases alarm outputs to up to 10
- Flexible integration with fire alarm panels, suppression systems and other external equipment
- Supports alarm linkage, fire alarm and fault monitoring



System Integration



Fire Alarm Panel



Sprinkler System



Sounder / Beacon



BMS / SCADA



Other External Systems

Mounting Options **(Sold Separately)**

Mounting accessory is available to suit different installation environments.



PFB605W-B

Wall Mount Bracket

HY-FCB605WB



Note: Accessories and expansion modules are sold separately.

Please confirm the required mounting and system components when specifying your installation.

Compatibility and component requirements may vary depending on the installation and system design.

A SAFER TOMORROW TOGETHER

Advanced fire detection for a safer,
more resilient world.



Visit our trade portal
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Get in touch
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VISIT OUR
TRADE PORTAL



**Compliance
you can trust**

EN54 certified



**Proven
technology**

AI-powered
multi-sensor detection



**Built for
real-world use**

From industrial sites
to critical infrastructure



**A partner
in fire safety**

Supporting installers,
specifiers and end users
across the UK



WisulInstaller App **NEW**
Share • Earn • Grow



**Installer
Community**
Connect & share



**Scan & Earn
Rewards**
Collect points



**AI Technical
Support**
Get instant answers



More Features
Coming Soon



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