KIDDE™

FIREX®

WIRE-FREE INTERCONNECT SMOKE + CO ALARM with Voice Alerts

ITEM 21033915 | MODEL CUACFEX-VRF

Hardwired + 2 AA Backup Batteries (INCLUDED)



Photoelectric + Firmware Technology

Intertek

Conforms To Standards
UL 217 and UL 2034

Images are representative only. Actual product may vary slightly.

Description

When you're on the job, there's no room for uncertainty. Built for pros, the FireX Combination Smoke + Carbon Monoxide Alarm (model CUACFEX-VRF) delivers dependable, code-compliant detection — backed by North America's #1 home fire safety brand.*

This advanced dual-sensor alarm meets UL 217 10th Edition and UL 2034 5th Edition standards. You'll also find key features both you and your customers will appreciate, like voice alerts, wire-free interconnect,[1] reduced nuisance alarms, self-testing capability, event memory and universal mounting for streamlined installs.

Features & Benefits

- **Faster Detection**[2] – Advanced smoke chamber design for quicker, more reliable alerts
- **Reduced Nuisance Alarms** – Intelligent algorithms help distinguish real threats from false alarms
- **Fire Event Locator Memory** – LED indicator every 15 seconds after an alarm event
- **Self-Testing Diagnostics** – Monitors key functions for consistent, lasting performance
- **Heat & Humidity Protection** – Conformal coating protects against oxidation, corrosion and environmental conditions
- **5-Inch Universal Mounting Bracket** – Streamlines installation and replacement
- **Preinstalled Dust Cover** – Rigid plastic cover shields alarm from construction dust and debris
- **Durable, Fire-Resistant Housing** – Built-to-last with screw-secured PVC construction that resists yellowing and aging
- **Wire-Free Interconnect**[1] – Low-cost retrofit solution delivers interconnected detection with no wiring required
- **Voice Alerts** – React quickly with crystal-clear voice alerts that tell you exactly why the alarm is sounding

Ordering Information

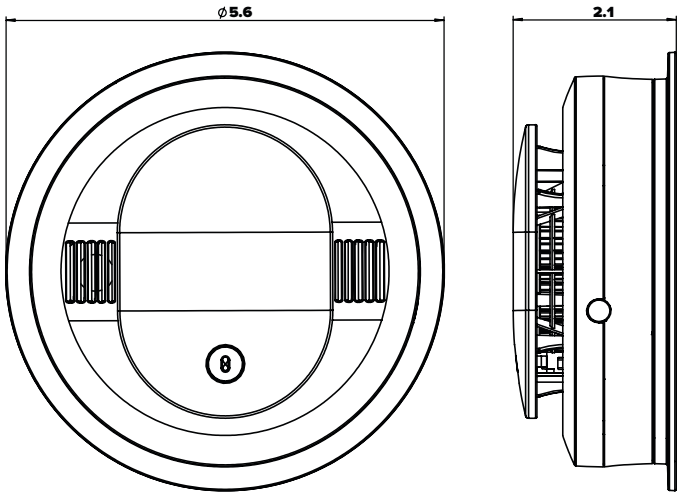
Ordering Number	UPC	GTIN	Pack	Case Dimensions (D x W x H in)	Case Weight (lbs)	Pallet
21033915	047871339150	10047871339157	3 / case	8.39 × 6.3 × 6.06	~ 3	216

**Based on total household installations as of December 2023. [1] Different models offer different interconnection options and requirements. Check the User Guide for more info. [2] 29% faster average smoke detection based on internal testing of smoldering wood fires for Kidde 9th Edition vs. leading competitor 8th Edition products.*

Model Specifications

Alarm Indications	Smoke Alarm: Temporal-3, ≥85 dB @10 ft, with voice *"Fire!"*
	Red LED in sync with alarm (initiating alarm(s) only)
	Amber LED = Fault / Error / EOL / Low Battery
	Green = Power
	Event Recall: 1 Red LED blink for smoke, 2 Red LED blinks for CO, every 15 sec (24 hrs.)
	Clean Me: 1 blink + 3 chirps / Voice *"Clean the Alarm"* (dust)
	CO Alarm: 4 beeps with voice *"Warning! Carbon Monoxide"*
Power & Battery	Primary: 120 V AC, 60 Hz, 85 mA max
	Backup: 2 × AA batteries (included)
	Battery Life: ~1 yr (replace when chirp occurs)
	UL 217 + UL 2034 endurance certified
	Approved: Energizer E91, Gold Peak 15A, Golden Power GLR6A
	Not lithium compatible
Functional Features	Test/Hush Button (simulates smoke + CO)
	Hush™ (8 min)
	Alarm Auto Reset After Hushing
	Tamper-Resistant AC Quick Connector
Wireless	Frequency band: 916MHz-923MHz
	Number of channels = 8
Compliance & Listings	ETL Listed; UL 217, 10th Edition; UL 2034 5th Edition
	NFPA 72 (2025)
	NFPA 101
	ICC/IBC aligned
	CSFM Listed
	Meets HUD/FHA standards
Architectural / Engineering	Housing: Flame-retardant thermoplastic (UL 94)
	3 LED indicators + voice
	≥85 dB
	Meets UL 217 10th + UL 2034, NFPA 72 (2025), NFPA 101, FHA, HUD
Technical	Model: CUACFEX-VRF
	Sensors: Photoelectric + Electrochemical CO
	Temp: 40–100 °F
	Humidity: 10 to 95% relative humidity (RH), non-condensing
	Dimensions: 5.67" box / 5" out
	Weight: ~1.0 lb.
	Wiring: Quick-connect harness
	Interconnect: Up to 24 Kidde devices
Warranty	10-Year Limited (excludes batteries)
User Guide Languages	English / Spanish

Product Dimension (in)



Installation of Alarm[3]

The alarm can be installed on any standard single gang electrical box, up to a 4" octagon junction box. See User Guide for more location information and additional instructions.

The alarm should be installed to comply with all local codes having jurisdiction in your area, Article 760 of the National Electric Code, and NFPA 72. Make certain all alarms are wired to a single, continuous (non-switched) power line, which is not protected by a ground fault interrupter. A maximum of 1000 ft of wire can be used in the interconnect system. Use standard UL listed household wire (18 gauge or larger as required by local codes).

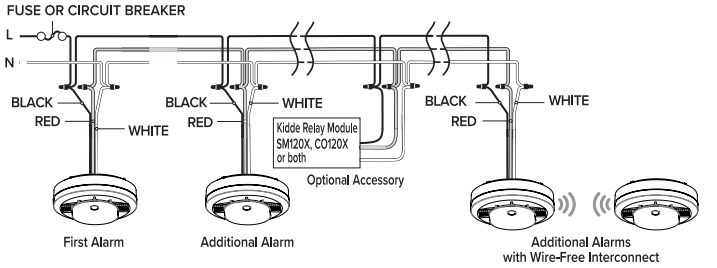
A maximum of 24 Kidde Safety devices may be interconnected in a multiple station arrangement. The interconnect system should not exceed the NFPA interconnect limit of 12 smoke or smoke/CO combination alarms and/or 18 alarms total (smoke, CO, smoke/CO combination, heat, etc.). With 18 alarms interconnected, it is still possible to interconnect up to a total of 6 remote signaling devices and/or relay modules.

This model meets the latest residential smoke alarm standards, which includes enhanced resistance to nuisance alarms from cooking. Industry experts recommend that both ionization and photoelectric smoke alarms be installed to help ensure optimal detection of the various types of fires that can occur within the home. Ionization sensing alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smoldering fires) sooner than ionization alarms. Industry experts recommend specific locations for smoke alarms, such as every level and sleeping area of the dwelling. They also recommend a CO alarm be installed on each level of the home — ideally on any level with fuel-burning appliances and outside of sleeping areas. The alarm can be installed on the surface of any wall or ceiling following the UL/NFPA/Manufacturer's recommended placement guidelines.

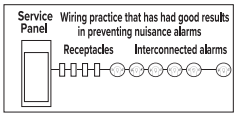
[3] *For technical information only. Not for installation use. See User Guide for installation and safety information.*

Installation of Alarm[3] *(Continued)*

Interconnect Diagram[3]



Wires on alarm harness:	Connected to:
Black:	Hot side of AC line
White:	Neutral side of AC line
Red:	Interconnect lines (red wires) of other units in the multiple station set-up



⚠ **WARNING:** *Failure to properly connect AC power and install batteries in the correct orientation will prevent proper operation of this alarm and will prevent its response to fire and/or CO hazards.*

The following Kidde models can be interconnected using the standard AC wiring interconnect. ***(Refer to each model's User Guide for visual and audible indicators.)***

Models which provide both remote smoke and CO alarms	20SA10, 20SA10-V, 20SAR, 20SAR-W, 3050-VAS10-A, 3050-VASC10-A, 30CUA10, 30CUA10-V, 30CUAR, 30CUAR-V, 30CUAR-W, 900-CUAR, 900-CUAR-V, i12010S, i12010SCO, KN-COB-IC, KN-COPE-I, KN-COSM-I, KN-COSM-IB, KN-COSM-IBA, KN-SMFM-I, P4010ACLEDS, P4010ACLEDS-2, P4010ACLEDSCO, P4010ACLEDSCO-2, P4010ACS, P4010ACSAQ-WF, P4010ACSCO, P4010ACSCOAQ-WF, P4010ACSCO-W, P4010ACSCO-WF, P4010ACS-W, P4010ACS-WF, P4010LACS-W, RF-SM-ACDC, RGCUAR-RW, RGSAR-RW, SMACFEX, SMAC10YFEX, CUAFEX, CUAFEX-V, CUAC10YFEX, CUAC10YFEX-V, 50SA10-S, 50CUA10-S, CUAC10LEDFEX
Models which provide remote smoke alarms, but not remote CO alarms	HD135F, i12020, i12020A, i12040, i12040A, i12060, i12060A, i12080, i12080A, i4618A, i4618AC, P12040, PE120, Pi2000, Pi2010
Models which provide both remote smoke and CO alarms with a strobe light and no audible notification	SL177i, SLED177i
Relay modules	SM120X relay module will only activate from interconnect smoke signal. CO120X relay module will only activate from interconnect CO signal.

This model can also be interconnected using Wire-Free Interconnect with the following: RGSDR-RW, RGCUDR-RW, 20SAR-VRF, 20SDR-VRF, 30CUAR-VRF, 30CUDR-VRF, SMACFEX-VRF, SMDCFEX-VRF, CUACFEX-VRF, CUDCFEX-VRF.

Alarm Warnings – *Featuring multi-color LEDs*

- **Fire:** The red LED will flash in sync with the alarm pattern (3 long beeps). The alarm will repeat this pattern until the unit is reset or smoke is eliminated.
- **Carbon Monoxide:** The red LED will flash in sync with the alarm pattern (4 quick beeps). This continues until the unit is reset or the CO is eliminated.
- **End of Unit Life:** Two chirps and amber LED flashes per minute.
- **Alarm Memory:** Alerts a user if smoke or CO has been detected in the last 24 hours. If smoke has been detected, the red LED blinks every 15 sec. If CO has been detected, the red LED blinks twice every 15 sec.

Pro Notes / Maintenance

- Clean only with compressed air/vacuum & dry cloth — no water or cleaners
- Keep 3 ft from ducts, fans and lights
- **Troubleshooting Nuisance Alarms**
  1. **Hush** – Press Hush/Test to silence the alarm
  2. **Clean** – Clear alarm openings using compressed air or vacuum
  3. **Test** – After cleaning, press Hush/Test to retry alarm
  4. **Call** – If issue persists, call Kidde Pro Support

Keep the installed dust cover on until at least 24 hours after all construction has been completed (drywall, painting, varnishing, mounting plate install, etc.). Retain the dust cover and reinstall it to protect the alarm during future construction projects. Construction dust and chemicals can cause contamination and false alarms.



⚠ **WARNING:**
Dust cover must be removed for alarm to operate.

Images are representative only. Actual product may vary slightly.

[3] *For technical information only. Not for installation use. See User Guide for installation and safety information.*

THE RIGHT SUPPORT, RIGHT WHEN YOU NEED IT.

Get the answers you're looking for, with a dedicated customer service line for pros.
Call **Kidde Pro Support** at **1-888-422-6402**.

Kidde, 1016 Corporate Park Drive, Mebane, NC 27302 1-800-880-6788 Kidde.com
©**2026 Kidde.** All Rights Reserved. All trademarks and service marks referred herein are property of their respective owners.