

Added security, safety functions lead R&D

Typical features

- **Function keypad:** Buttons or menu options for door opening, image monitoring or talking to the visitor are common. Models support section, rolling, sliding or swing doors. Controls for multimedia playback are available in high-end systems.



- **Indoor unit:** Basic models have one indoor unit, typically with a 4in b/w or color CRT screen. Midrange variants have up to two integrated 4 to 7in LCDs, and high-end types multiple components employing touch control. All variants incorporate a microphone and speaker. Multigroup alarm zones and picture storage are optional in upscale versions.

- **Outdoor station:** Door stations have CMOS or CCD sensors with 380 to 420 TVL resolution. These have a microphone and speaker, and multigroup chords for ringing selection. More expensive variants have optional intruder alarms or home automation function.

Price range (per set)	Basic features
\$30 to \$60	One indoor unit, one outdoor station; CMOS camera; monochrome or color CRT; remote unlock
\$80 to \$300	One or two indoor units, one outdoor station; CCD camera; 4 to 7in LCD; remote unlock; optional intruder alarm function
Above \$500	Multiple indoor units and outdoor stations; CCD camera; 4 to 7in touchscreen LCD; Arm 9; DSP; multimedia playback; optional intruder alarm and home automation functions

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Top trends

- **Home automation:** More suppliers are adopting home automation technologies. Compliant units are largely based on Arm, DSP and embedded OS. These enable light, air conditioner and sound control, and meter reading, toll collection and interactive multimedia information transmission.
- **Enhanced systems:** The latest high-end models are equipped to interface with intruder detection or fire/gas alarm systems. Makers can provide matching wired or wireless modules.
- **Digital system bus:** The upscale category taps EIB, LonWorks and CAN-bus for large apartments or automated residential establishments. Midsize and large makers offer variants based on TCP/IP or hybrid networks combining it with analog. Suppliers predict digital models will challenge dominant analog products in the next two or three years.
- **User-friendly screens:** Color displays range from 4 to 7in. GUI and touch control are adopted for easier operation. Aesthetically appealing designs include ultrathin housings, flat front panels and buttons, and unique patterns.

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[Competition Co. Ltd](#)

★★★★★

Model: SAC5C-K2

Description: Door station; camera with nanoglass shield; aluminum alloy panel; water-, vandal-resistant; 55x130x39mm

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[Quanzhou Jiale Electronic Appliance Co. Ltd](#)

★★★★☆

Model: NS-A5-G52

Description: Indoor unit; 380 TVL; ≥70dB chimes; ≤8% distortion

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[Shanghai Kingtronic Co. Ltd](#)

★★★★★

Model: K-VDP-710CG

Description: 1.7in color TFT LCD, 800x480 pixels; touch button; outdoor camera, six LEDs, night vision

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[Shenzhen Anposi Products Ltd](#)

★★★★☆

Model: M273

Description: Indoor unit; 7in color TFT; touch button; outdoor camera; adjustable bell volume; unlock function

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[Shenzhen Cnaec Tech Co. Ltd](#)

★★★★☆

Model: VCT-804E1

Description: Indoor unit; 4.3in LCD; multichord ring tones; image capture, unlock function; surface-mount

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[Xiamen Leelen Technology Co. Ltd](#)

★★★★☆

Model: VIII

Description: Door station; 1/3in CCD camera; 480 TVL; 0.01lux minimum illumination; 75s intercom time

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