

Higher sensitivity, dynamic range stressed

Typical features

- **Form factor:** Units come in board, box, dome or speed dome types with fixed or zoom lenses. Board versions are typically found in entry-level kinds. Box and dome dominate supply.



- **Housing:** WDR cameras from China suppliers use aluminum alloy or plastic for the housing. Makers source materials from local providers.

- **Sensor & processor chipset:** Most models adopt Pixim's Orca D1500, Sony SS-3WD or Sony Effio-P chipset. The first includes D1520P video image processor and D1110S/D2010S CMOS sensor. The SS-3WD solution consists of the CXD4150AR DSP SLI and CXD3151RWDR IC, and ICX-212/ICX-213 1/3in Sony Vertical Double-Density Interline CCD. The Effio-P comprises the CXD41299GG DSP chip, CXD4813GG AFE chip, and 1/3 or 1/4in 960H/760H WDR CCD sensor.

Price range (per unit)	Basic features
\$50 to \$150	Board type; Pixim DPS with 540 TVL resolution and 102dB dynamic range or Sony CCD with 520 TVL resolution and 52dB dynamic range; automatic gain control and white balance, backlight compensation; OSD
\$100 to \$300	Box or dome type; Pixim DPS with 540 TVL resolution and 102dB dynamic range or Sony CCD with 520/650 TVL resolution and 52/68dB dynamic range; automatic gain control and white balance, backlight compensation; OSD; optional IR LED
Above \$300	Box, dome or speed dome type; Pixim DPS with 540 TVL resolution and 102dB dynamic range or Sony CCD with 520/650 TVL resolution and 52/68dB dynamic range; automatic gain control and white balance, backlight compensation; OSD; optional IR LED, IP function

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Top trends

- **Widening adoption of DPS:** More suppliers are using Pixim's DPS solution in wide dynamic range cameras. Such models have a typical dynamic range of 102dB compared with 52dB in traditional CCD variants. The provider's technical support and brand partnership program have heightened interest in the component.
- **Higher sensitivity with Sony Effio:** Mainstream products adopt the Sony Super HAD CCD II sensor, which has 7dB higher sensitivity than the previous Super HAD version. The Effio platform, however, delivers even greater resolution, S/N ratio and color reproduction than the first. Horizontal resolution can reach 650 TVL and dynamic range 68dB.
- **Stable prices for CCD, DPS units:** WDR cameras are still considered high-end. Makers forecast stable prices for CCD and DPS variants in 1H12, and slightly lower quotes for Effio types.
- **Sales & export forecasts:** WDR models corner only 3 percent of China's total output of security cameras due to higher price and niche application. Suppliers expect 15 and 25 percent growth in sales and exports in 1H12.

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Model: CV-WDR516

Description: 1/3in Pixim DPS; 690 HTVL; 120dB dynamic range; 0lux with IR on; ≤50dB S/N ratio; 20m IR range

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★★★★☆

Model: BX-371UV

Description: 1/3in Sony CCD; UltraVision DSP; 650 TVL; 52dB dynamic range; Sens-up

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Model: DV-VDPW8510CVHEF

Description: 1/3in Sony Super HAD CCD II; 650 TVL; 52dB dynamic range; 4 to 9mm lens; 0.00001lux at F1.2

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Model: D214WD

Description: 1/3in Sony Super HAD II CCD (Hawk); 550 TVL; Sens-up

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[Shenzhen YCX Electronics Co. Ltd](#)

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Model: YC-770HBB65

Description: 1/3in Sony Super HAD CCD II; 600 TVL; 60dB dynamic range; 0.0001lux/F1.2; digital zoom

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[Viscoo Enterprises Ltd](#)

★★★★☆

Model: PWD-453

Description: 1/3in Pixim DPS; Seawolf chip; 690 HTVL; 120dB dynamic range; 4 to 9mm lens; 0.1lux/F1.2; 36 LEDs

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