

# TOP 10 PRO DIGITAL CAMERAS & DIGITAL VIDEO CAMERAS

		Pro digital cameras	Actual sensor	Optical zoom Equivalent range	Max aperture	Viewfinder type LCD size	Shutter speeds	Storage media Supplied media	Closest focus distance (macro)	Accessories
	<b>1</b>	<b>Sony Cybershot DSC-F717</b> 08705 111 999 www.sony.co.uk LAST MONTH 1	5Mp	5x 38-190mm	f2.0-2.4	EVF 1.8in	1/2,000 to 30 sec	Memory Stick 32MB	2cm	Hotshoe, sync plug
			Sony's DSC-F717 is the best-quality 5Mp (megapixel) camera we've tested. The optics are superb and features like the live histogram and AF illuminator are wonderful. The relatively high cost and low capacity of Memory Sticks let it down, but the F717 remains one of the best digital cameras at this price point.							
	<b>2</b>	<b>Nikon Coolpix 5000</b> 0800 230 220 www.nikon.co.uk LAST MONTH 2	5Mp	3x 28-85mm	f2.8-4.8	optical 1.8in	1/2,000 to 60 sec	CompactFlash 32MB	2cm	Hotshoe
			The compact 5Mp Nikon delivers 2,560x1,920 pixel images. Its CompactFlash card stores 20 high-resolution Jpegs. The 3x optical zoom has an equivalent range of 28-85mm, giving wider angled shots than its competitors, and there's a range of manual and automatic settings.							
	<b>3</b>	<b>Nikon Coolpix 5700</b> 0800 230 220 www.nikon.co.uk LAST MONTH 3	5Mp	8x 35-280mm	f2.8-4.2	EVF 1.5in	1/4,000 to 8 sec	CompactFlash 32MB	3cm	Hotshoe
			The Coolpix 5700 boasts a 5Mp CCD (charge-coupled device), flip-out and twist screen and a 32MB card which stores up to 20 best-quality Jpegs. Its 8x optical zoom is equivalent in coverage to 35-280mm, which makes it top dog for focal length among 5Mp cameras.							
	<b>4</b>	<b>Olympus Camedia E10</b> 0800 072 0070 www.olympus.co.uk LAST MONTH 4	4Mp	4x 35-140mm	f2.0-2.4	SLR 1.8in	1/640 to 8 sec	CompactFlash 16MB	20cm	Hotshoe, sync plug
			The 4Mp E10 has an optical SLR (single lens reflex) viewfinder, which allows more precise focusing. Images have 2,240x1,680 pixels and make great-looking 11x8in inkjet prints. The 4x optical zoom is equivalent to 35-140mm and zooming is performed by twisting a mechanical ring on the lens.							
	<b>5</b>	<b>Nikon D100</b> 0800 230 220 www.nikon.co.uk NEW	6.1Mp	any Nikon F-mount lens	dependent on lens	SLR 1.8in	1/4,000 to 30 sec	CompactFlash none	dependent on lens	Hotshoe
			This digital SLR uses most of Nikon's huge range of F-Mount 35mm lenses. Its 6.1Mp (megapixel) CCD (charge-coupled device) is physically larger than other models', making it much quieter. It produces pictures which look great printed up to A3 and is £250 cheaper than Canon's equivalent EOS-D60.							

		Digital video cameras	Image processor	CCD	Optical digital zoom	Max aperture	Horizontal DV resolution	FireWire in out	Focal distance	Multi-media card
	<b>1</b>	<b>JVC GR-DVL767EK</b> 0870 330 5000 www.jvc.co.uk LAST MONTH 1	1/3.8in CCD	1.02Mp	10x 500x	1.8	530 lines	yes yes	3.8-38mm	8MB
			This model is comfortable in use with easy-to-reach controls. A side-loading tape mechanism is convenient when shooting on a tripod and the 10x optical zoom is smooth. It can capture stills and store them on an 8MB card. What really tips the balance is the comprehensive range of connectivity options.							
	<b>2</b>	<b>Sony DCR-TRV18E</b> 0870 511 1999 www.sony.co.uk LAST MONTH 2	1/4in CCD	680,000 pixels	10x 120x	1.7	500 lines	no yes	3.3-33mm	8MB
			The Sony combines excellent performance with professional extras. It offers a 10x optical and 120x digital zoom, both of which provide sharp results. It's comfortable in use and can capture stills via the 680,000 pixel CCD and stores them on its 8MB proprietary Memory Stick.							
	<b>3</b>	<b>Samsung VPD77i</b> 0800 521 652 www.samsungelectronics.co.uk LAST MONTH 3	1.4in CCD	800,000 pixels	22x 500x	1.6	500 lines	yes yes	3.6-79.2mm	8MB
			Compact and ergonomic, the VPD77i offers a side-loading tape mechanism and easy-to-operate controls. The fold-out LCD (liquid crystal display) lacks clarity and detail, but it can capture sharp images and is suited to shooting in low-light conditions. Using the digital zoom can lead to fuzzy image quality.							
	<b>4</b>	<b>Canon MV550i</b> 0870 514 3723 www.canon.co.uk LAST MONTH 4	1/6in CCD	540,000 pixels	22x 440x	1.8	500 lines	yes yes	2.8-61.6mm	8MB
			The MV550i has plenty of features – but these are matched by a high price. It also misses out some key requirements: image quality lacks detail and appears drained, and the auto-exposure also coped badly during transitions from low to bright light.							
	<b>5</b>	<b>Panasonic NV-DS29B</b> 08705 357 357 www.panasonic.co.uk LAST MONTH 5	1/4in CCD	800,000 pixels	10x 500x	1.8	500 lines	no yes	3.6-36mm	n/a
			The NV-DS29B failed to impress, despite its bargain price. Image quality was good and the zoom facilities are smooth, but there's a serious lack of features. There are no special effects other than the ability to fade between shots and it only offers a DV-out port.							

## Buying advice: DV cameras

Image quality is not as easy to gauge with digital video as with stills. When a manufacturer slaps '800,000 pixel CCD' (charge-coupled device) on the side of the box, this refers only to the resolution of the still pictures it produces, not video.

Furthermore, DV camera resolutions tend to be much lower than for digital

cameras: camcorders offering 1Mp (megapixel) are still in the minority, whereas this rating is lower than any of the models in our Beginner digital camera chart.

Video resolution is given as a horizontal and vertical resolution for the number of lines of colour that go to make up the picture on your TV screen. But many cameras do not advertise this. The vertical resolution for DV camcorders is

usually 540 lines – the theoretical limit for PAL, the UK's video format. The horizontal resolution will vary between models, but the higher the number of lines the better the video quality is likely to be.

To edit your video footage on your PC you will need FireWire-in and -out so you can record the final version from the PC to a miniDV tape in your camcorder without any loss of picture or sound quality.