PRODUCTION ON A BUDGET

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UrbanFox Ltd

All of this presentation will go on our website

www.urbanfox.tv/seminar

WHAT CAMERA SHALL I BUY?

- What is your budget?
- What are you going to use it for?
- What features must you have?

Budget

Whatever your budget - don't forget you'll need to set aside some money for a tripod, mics, lights, editing....

Think about 50:50

So if you have £3,000 to spend on the camera – you could easily spend £3,000 on all the other stuff.

WHAT WILL YOU USE IT FOR?

Internet broadcasting, podcast, vodcast
±500 - ±2,000

Weddings, special interest videos (SIV)
 ±500 - ±3,000

WHAT WILL YOU USE IT FOR?

- Corporate, broadcast and stock footage.
 £3,000 £??
- $\pm 3,000 \pm ??$
- Documentary or drama
- £3,000 £??????

Budget

We're assuming you've got a £3,000 - £6,000 total budget.

FEATURES ...

THERE ARE 5 THINGS THAT MAKE CAMERAS GOOD

- The lens
- The imaging system
- The recording format
- Audio
- Lighting

LENSES

• With the cheaper cameras you will have to put up with fixed lenses.

- Focus lag
- Probably won't zoom out wide enough

LENSES

If you spend more you can get a camera with interchangeable lenses. Canon XL range, JVC HD range, Sony DSR...

But, check your budget...

...will you be able to afford a second lens?

THE IMAGING SYSTEM

- CCD and CMOS
- More = better (max of 3)
- Bigger = better = more expensive

Sony HVR-A1 => 1/3inch CMOS £1,700 Sony HVR-Z5 => 1/3inch 3CMOS £3,300 Panasonic HPX301 => 1/3inch 3CMOS £8,500 Sony PMW-EX1=> 1/2inch 3CMOS £4,680 Sony DSR-450 => 2/3inch 3CCD £9,500

(all prices ex VAT)

THE IMAGING SYSTEM

- SD or HD?
- SD is fine for internet stuff
- SD is often better in low light than HD equivalent
- Some do have night vision for very low light conditions.

THE IMAGING SYSTEM

- CCD better for interlaced pictures
- CMOS better for progressive
- True progressive?
- 25f or 25p
- 24p anyone?

THE IMAGING SYSTEM

CMOS - No smearing

- Rolling shutter
- Skew
- Wobble
- Partial exposure flash
- Banding fluorescent lights

http://dvxuser.com/jason/CMOS-CCD/

THE RECORDING FORMAT

- TAPE
- EXTERNAL HARD DRIVES
- INTERNAL HARD DRIVES
- OPTICAL DISC RECORDING
- SOLID STATE RECORDING

THE RECORDING FORMAT ...TAPE...

- Cheap
- Very reliable
- Proven to be archive-able
- Comes in edit friendly formats

THE RECORDING FORMAT ... EXTERNAL HARD DRIVE...

- Great as a back-up device
- 40GB = 3hrs
- Firestore 60Gb £850
- Sony HVR-DR60 £500



THE RECORDING FORMAT ...EXTERNAL HARD DRIVE...

- Expensive
- Where do you put it?
- Insecure firewire socket
- Good back-up
- Great for events longer than 1hour
- Possibility of faster workflow

Camera outputs

FireWire used to be the way to get video and audio into an external hard drive.

Look out for cameras with:

- » HDMI
- » HDSDI

Mega bits

- DV/DVCAM (25 Mbps)
- DVCPRO (25 Mbps)
- DVCPRO 50
- DVCPRO HD (100 Mbps)
- HDV (19 + 25 Mbps)
- XDCAM EX (25 + 35 Mbps)
- AVCHD (various)
- AVC-I (50 + 100 Mbps)



THE RECORDING FORMAT ...OPTICAL DISC...

- Within this budget records to DVD
- Low quality
- Hard to edit
- Avoid

THE RECORDING FORMAT ...SOLID STATE...

- Getting cheaper
- No moving parts
- Pretty reliable
- Pretty resilient too (washing machine safe)

THE RECORDING FORMAT

SOLID STATE RECORDING

- Canon SX1 IS
- Face detection
- 10 mega pixelsFull HD @ 30fps
- Full HD @ 30
 MPEG-4
- SDHC cards
- £400



THE RECORDING FORMATSOLID STATE...

- Panasonic P2
- DVCPRO format
- P2 still too expensive
- £1,600 64GB card
- 1GB = 1min HD
- No moving parts





- I6GB = 50/70mins
- 16GB card = £430
- So, not cheap



THE RECORDING FORMATSOLID STATE...

- Cheap Kensington reader with SD card work around
- 16Gb=£28.99 inc VAT

Loads of info including a compatibility list from Guy Barwood http://tinyurl.com/d4m8wt



THE RECORDING FORMAT ...Hybrids...

- Sony HVR-Z5 & Z7
- Mini DV tape...and...
- Compact Flash too using the HVR-MRC1K



Retailers

- www.creativevideo.co.uk
- www.mitcorp.co.uk
- www.visuals.co.uk
- www.top-teks.co.uk
- www.prokit.co.uk

Tripods

- Spend as much as possible (£200 - £700)
- Weight (carbon fibre is expensive)
- Robust outlive the camera
- Min and Max height
- Easy to use leg adjustments

Tripods

- Video NOT a photographic tripod
- Mid level or ground level spreader
- Spirit level
- Quick release hot shoe
- Pan and tilt head
- Separate pan and tilt head frictions





FEATURES...

THERE ARE 5 THINGS THAT MAKE CAMERAS GOOD

- The lens
- The imaging system
- The recording format
- Audio
- Lighting













Basic Kit

- XLR-XLR cables 30cm, 1m, 2m, 3m (quad flex)
- Closed Headphones
 Sennheiser HD25



Sound Equipment

- www.ltf-uk.com
- www.creativevideo.co.uk
- www.canford.co.uk

FEATURES ...

I THINK THERE ARE 5 THINGS THAT MAKE CAMERAS GOOD

•The lens •The imaging system •The recording format •Audio •Lighting

Lighting kit

Lights are tools. You need the correct light to do a specific job well.

SO...

Please don't buy three identical lamps





LED On-Camera Light

- Cool light 0–100% dimmable
- No colour temp change
- Lamp life 10,000 hours
- Very low battery consumption (11W)
- LitePanels LP Micro £246 ex vat

Lighting Kit Extras

- RCD
- Circuit tester



Lighting Kit Extras Daylight colour-correction gel Extension leads Magic arm www.studiolighting.co.uk

RUN OUT OF MONEY?

- ...buy a reflector
- Search for 5 in 1 reflector on eBay
- Don't buy one that is too big unless you have an assistant to hold it.



Trolly Folding sack truck (eBay) Carries 50-90Kg Load

Plus

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- A good suitcase on wheels
- A rucksack so you always know where your kit is





THERE ARE 5 THINGS THAT MAKE CAMERAS GOOD ...



EDITING

You're not buying a computer... ...you're buying an edit suite

BUY A MAC







The person operating it



Any questions?

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