

The Select Studios Syllabus DV1

Learn about all of this in only 6 hours! (Don't worry about memorizing it all. You get a cheat sheet at the end!)

Digital Video 1: Introduction

Camera Types
Camera Operation
Basic Shooting
Formats/Media
Basic Supports

Inputs/Outputs

XLR
Stereo Mini
RCA
S-Video
Component
SDSDI & HDSDI
GENLOCK & Timesync

Consumer Camcorders

Smaller/Lighter
Smaller Sensors
Limited Controls
Limited/No mic inputs/outputs
Doubling as a still camera
Hot Shoe

Lenses

Interchangeable
Fixed
Mounts
Focus
F-stops
Primes
Zooms

Prosumer

Medium size/Medium weight
More buttons
Some have larger sensors
More inputs/outputs
Cold Shoe
Lens Choices

Sensors

CCD VS CMOS
3 vs 1
Resolution
Size
Global vs Rolling shutter
Depth of Field
Sensitivity
Noise & gain
Dynamic Range

Professional

Very Large shoulder mount
Even more buttons
Lens Choices
Larger Sensors(usually)
More power
Better viewfinders
Most control

Recording Media

MiniDV
VHS
DigiBeta
DVCPPro
Solid State
Hard drives
XDCAM Discs
DVD

Ring Controls

Focus
Aperture
Zoom

Internal sound

Internal microphones
camera mounted mics
adjusting levels
handling noise
auto mode
manual mode
ambient sound

Formats

DV
HDV (MPEG 2)
AVCHD (H.264)
Panasonic DVCPPro HD
Sony XDCAM
AVC-Intra
Obscure formats

Tripod systems

Legs
 Pan/til/drag
 Fluid Head
 Ball head
 Bowls
 Remotes
 Spreaders
 Photo vs Video

Lights

Onboard
 CFLs
 Color Temps (Kelvin)
 LED lights
 Power Sources
 Diffusion
 Barn Doors

Filters

Square
 Screw on
 ND
 Polarizer
 Warming/Cooling
 UV/Protective

Light modifiers

Flags
 Cookies
 Diffusion
 Color gels
 Reflectors
 Silks

Framerate

Perception of motion
 24/25P
 Undercranking
 Overcranking
 Over/Undercranking

Screen information

Power
 Safe Markers
 Timecode
 Time remaining

Attitude & Attire

What to wear
 How to Act
 Business cards
 Websites

Backdrops

Colors
 Muslins
 Supports
 Lighting
 Makeshift
 Green/Blue Screens

Color & white balance

Daylight
 Indoors
 White balance
 Black balancing
 Presets
 Auto

Focus & Depth of Field

What Determines it
 Tools to focus
 Maximizing
 Minimizing
 When to use

Shutter

Angle
 Speed
 Flickering
 Light
 Action
 Slow motion

Monitors

Onboard monitors
 External monitors
 Power
 Resolution
 Tools

Small Accessories

Apples Boxes
 Gaffer tape
 Headphones
 Shoes
 Back support
 Sunglasses/hat
 MultiTool