

VariCamp 2.0

The VariCamp takes you through Panasonic's Varicam cameras and the P2 VariCam (2700 & 3700) including the 4:4:4 capabilities of the 3700. Working in both tape (classic Varicam) and P2 Tapeless mode and an AVC-Intra primer. Expert instructors and industry professionals move through camera operations, functionalities, and what you need to ensure your camera works whether you're in a fully-equipped studio, or out in the wilds. You'll learn the menus and participate in highly-interactive labs on color, density and motion; You'll learn how to organize your gear, and set up the camera for your own particular requirements.

This extraordinarily full three days includes a remote shoot, talks from industry experts, and an opportunity to talk to representatives from supporting industries, including Fujinon, Panasonic, Leader, IDX and Telecast.

Day 1

8:30 **Check in & coffee – pick up badges and workshop manuals**

9:00 **Welcome and General Info**
9:10 **Student and Instructor intro**
Overview of the next 3 days.

9:30 **Video Refresher**

- Brief history of Digital Video
- What is HD, What is not?
- Why VariCam? ; why new P2 Varicam?

11:00 **Mini break**

11:10 **IDX: Power in the Field**

11:35 **Prepping your gear**
How to set up your camera in the field: complete with tips and tricks from the field so you can be sure to weather any storm.

- Weather
- Production type
- Viewfinder set-up
- Backfocus, normal and with Schneider collimator
- Basic start-up checklist
- Rental/owner operator/Video production

1:00-2:00 Lunch

2:00 Fujinon – HD lenses

2:30 Monitors, theory and operation
Introduction to monitor set-up and calibration.
An introduction to Waveform Monitors and Vectorscopes.

2:45 Introduction to Density
What is density in video terms?
What is gamma, pedestal, knee?
What controls do I have over density?

3:15 Density Lab

Labs will commence with an introduction to concepts, and continue by moving into a hands-on practical scenario demonstrating the various tonal control tools available in the cameras.

- Setting up your Waveform Monitor
- Setting up your Studio Monitor
- Test saw
- Pedestal, Black Stretch, Gamma, Knee Point and Slope
- Film Rec/ Video Rec vs New Gamma modes in 2700
- Using the paint box : EC3 & RC10

5:00 Mini break

5:15 Reconvene for Q&A and hands-on

6:00 Thank you and we'll see you tomorrow!

Day 2

9:00 Welcome to day 2

9:05 Telecast - Fiber Optic Systems for High Definition video and Electronic Cinema Production

9:30 P2 Acquisition and Format

A formal introduction to the P2 Format, and the new opportunities it offers.

- Solid State Acquisition
- Workflow Benefits
- Recorder Benefits
- Extras...
- AVC-Intra 100, and why it's such a big deal!

12:00-1:00 Lunch

1:00 Introduction to Color
 What is Color Gamut? Color Space?
 Color Camera Response?
 What Color Controls are there?

1:30 Color Lab

Labs will commence with an introduction to concepts, and continue by moving into a hands-on practical scenario demonstrating the various Color control tools available in the cameras.

- Setting up your Vectorscope
- Matching the camera to a standard
- DSC charts
- Matrix and color correction
- Aberration control: white shading, flare compensation
- Using color correction to create looks
- Matching the camera to your eye, scene and monitor
- CRT color temp vs. lighting temp
- colors on set vs. colors on scope

4:30 Minibreak

4:45 Shooting with Telecast Fiber / Jim Hurwitz

We set up the camera at a remote location, and show how you can manipulate color and density remotely. You'll get a chance to color correct and solve all kinds of problems remotely.

6:00 Thank you and see you tomorrow!

Day 3

9:00 Welcome to day 3

9:10 Introduction to Motion
 Camera/Processor/Recorder
 60 Frame Recording and Cadence
 Native Frame Rate Recording (AVC-Intra)
 24p vs 24PA vs 24PN ?

9:40 Motion Lab

Labs will commence with an introduction to concepts, and continue by moving into a hands-on practical scenario demonstrating the various Motion control tools available in the cameras.

- 60.00 & 59.94
- 30.00 time code and user bits
- Native frame rates
- frame rates, shutter speeds, flicker and stutter
- Variable frame rates
- Ramping and the Varispeed Controller
- Variable shutter speeds
- Fractional shutter speeds and shutter angles
- Frame Rate Converter
- Post issues

12:00- 1:00 Lunch

1:00 Camera Matching.

We'll show you how to set up cameras for a multi-camera shoot. How to mix and match different cameras on the same shoot : HDX-900, Varicam (classic), P2 Varicam.

2:30 Your Camera and New Technologies

There are many ways to bring legacy cameras into the cutting edge of recording technology. This module will cover:

- Making your existing Varicam a Solid State, 10bit Recording device.
- Recording P2 and HD Tape simultaneously with your HDX-900.
- Using the HPX-3700 to record in RGB 4:4:4.

5:00 Mini break

5:15 Reconvene for Q&A

6:00 Graduation & certification