

# **PDV Packaging: An LAO Overview**

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## **A Software Preview**

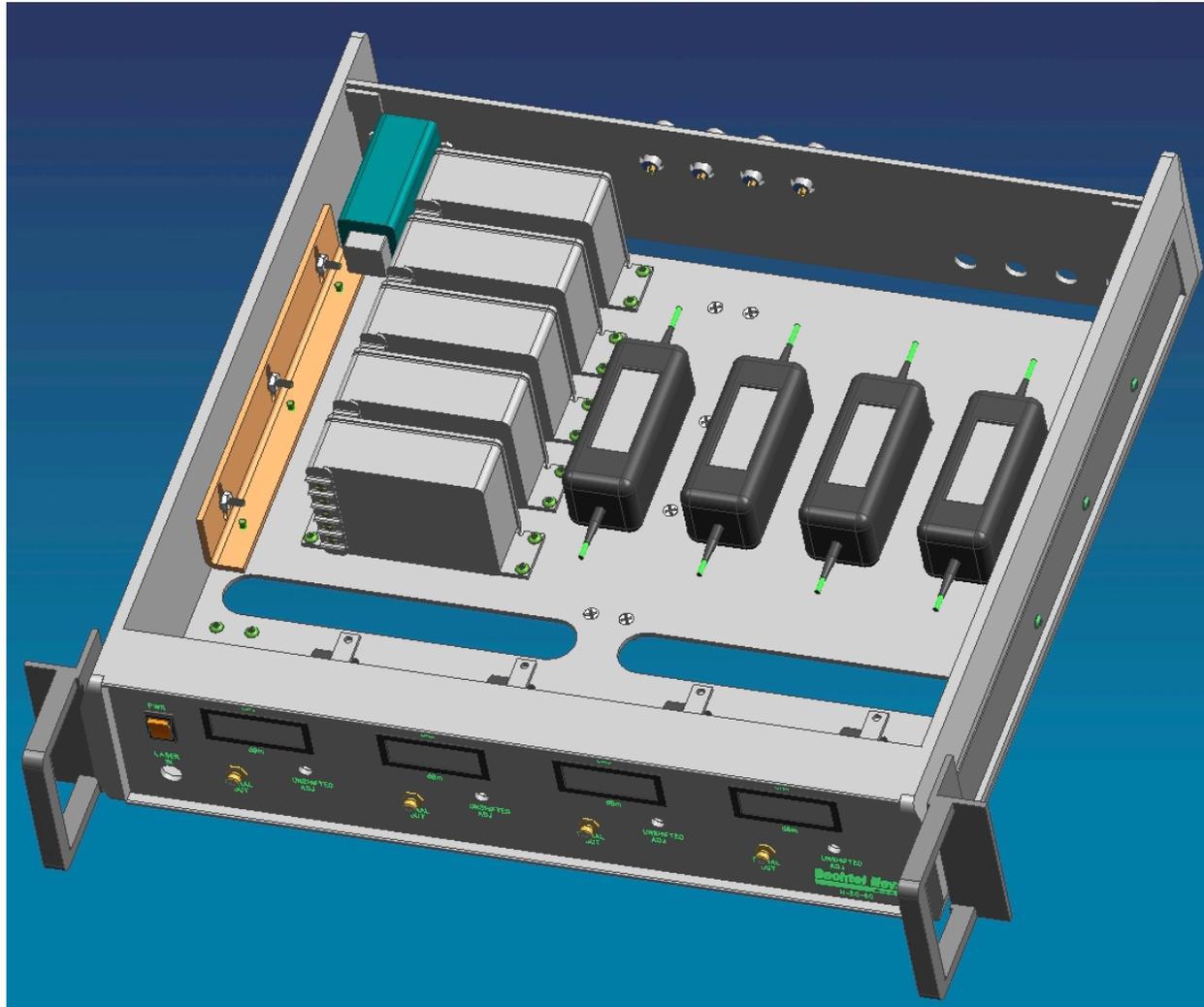
**Adam J. Iverson**  
**Diagnostic Engineer**

**July 20<sup>th</sup> 2006**

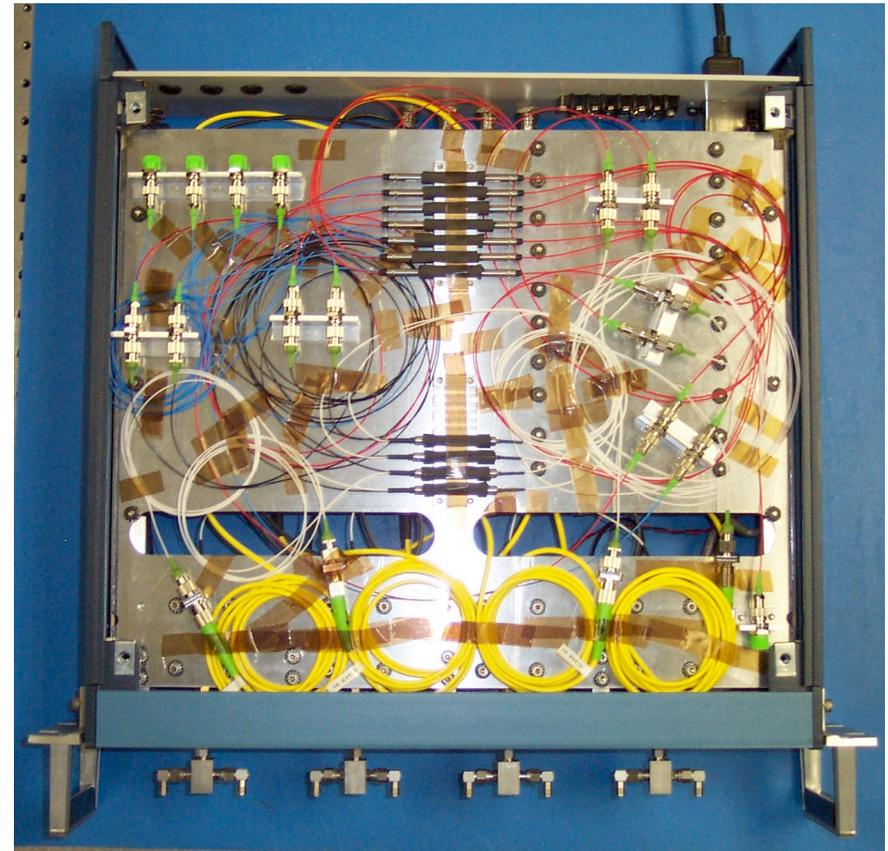
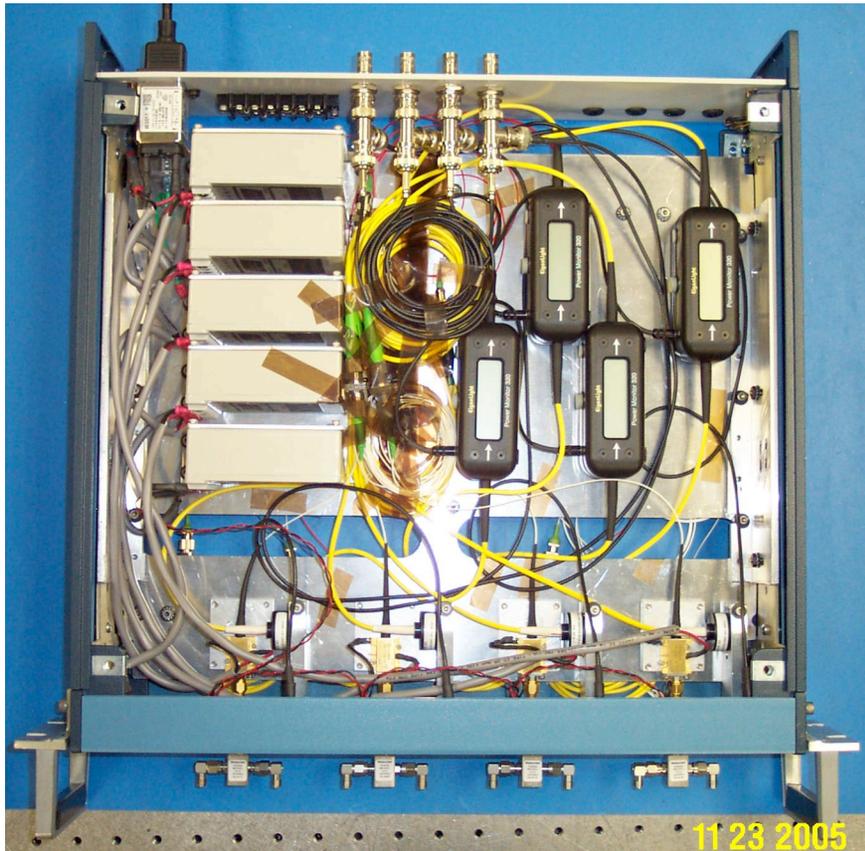
## LAO PDV Packages – A Summary

- 2U Rackmount 4-Channel PDV Box
  - Two prototypes built in November '05 for SCE program
    - Connectorized. Used on Centaur & Krakatau. Refurbished, to be used on Unicorn.
  - Two production models built in January '06 for M. Briggs
    - Welded. Used on Unicorn before the pause.
- 3U Rackmount 4-Channel PDV Box
  - One unit built in February '06 for B. Jensen
    - Original LLNL design.
- Single-Point PDV Box
  - One prototype built in June '06 for STL

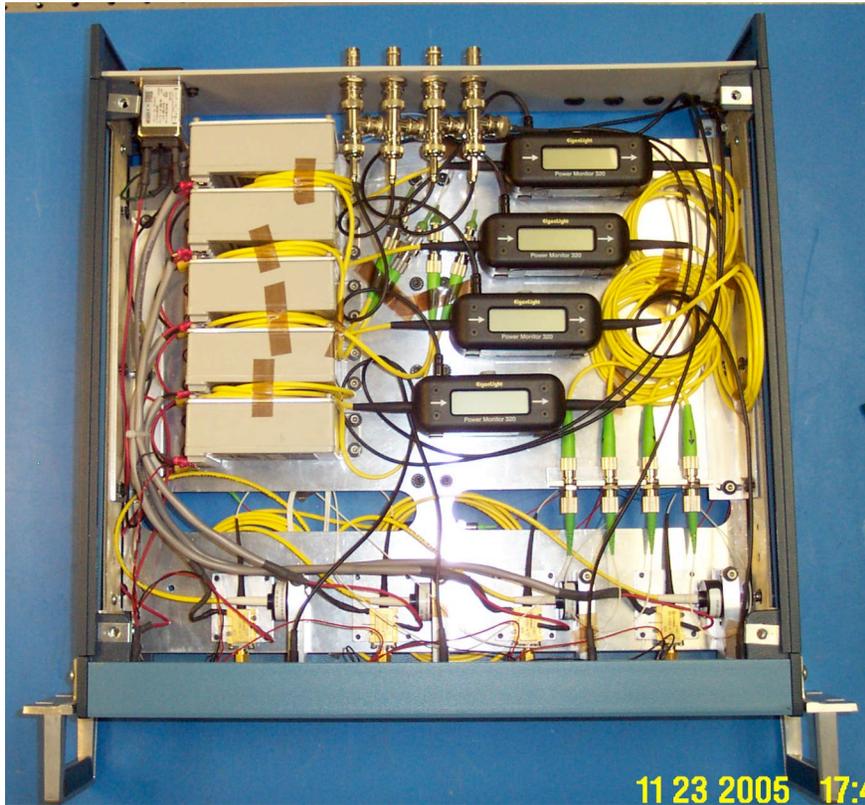
# 2U Rackmount 4-Channel Prototype – CAD Model



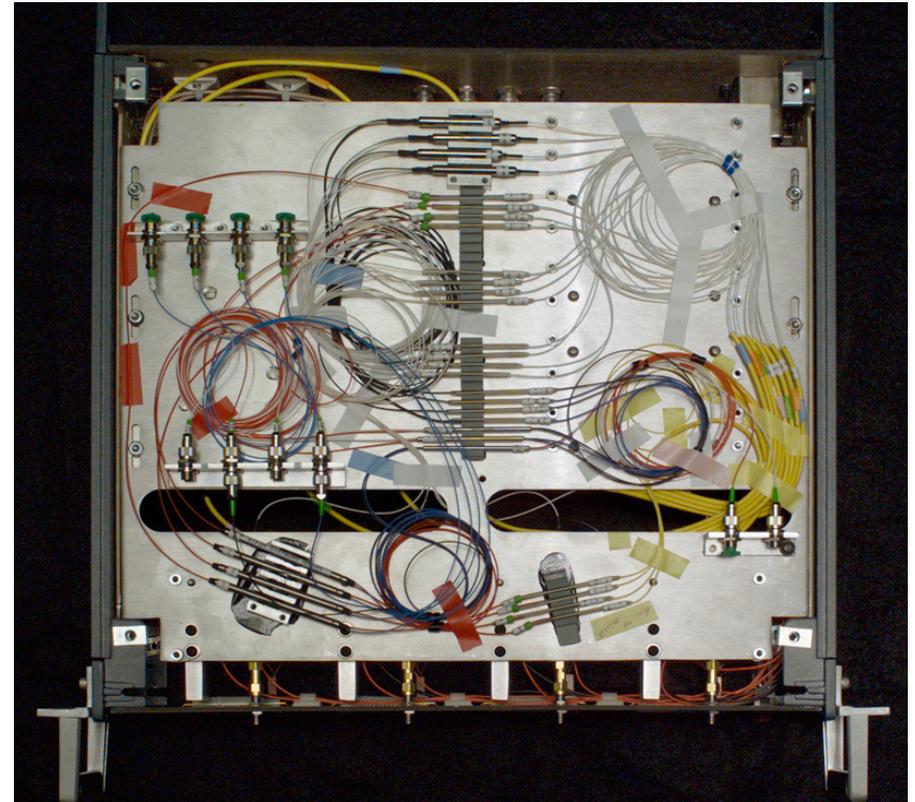
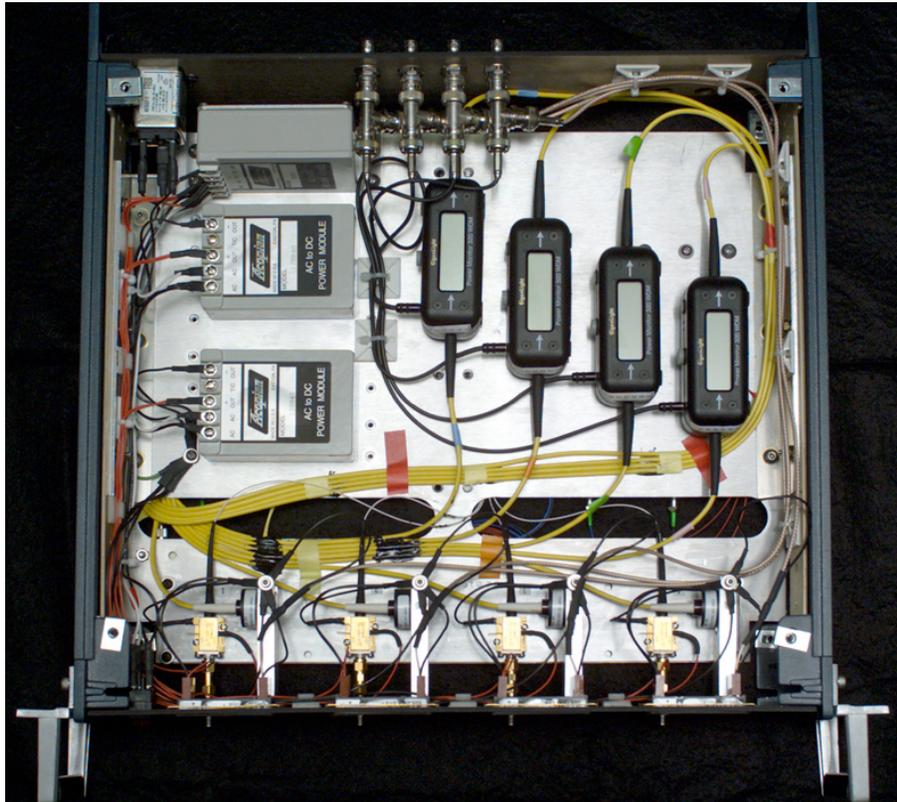
# 2U Rackmount 4-Channel Prototype – 1<sup>st</sup> Unit



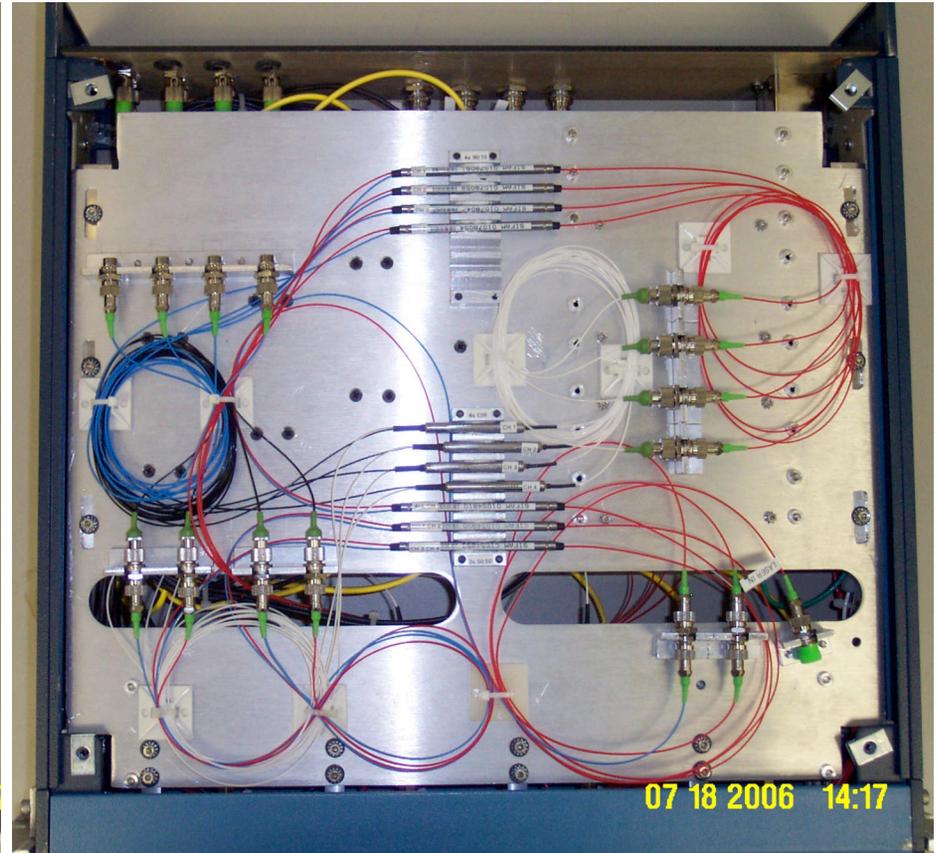
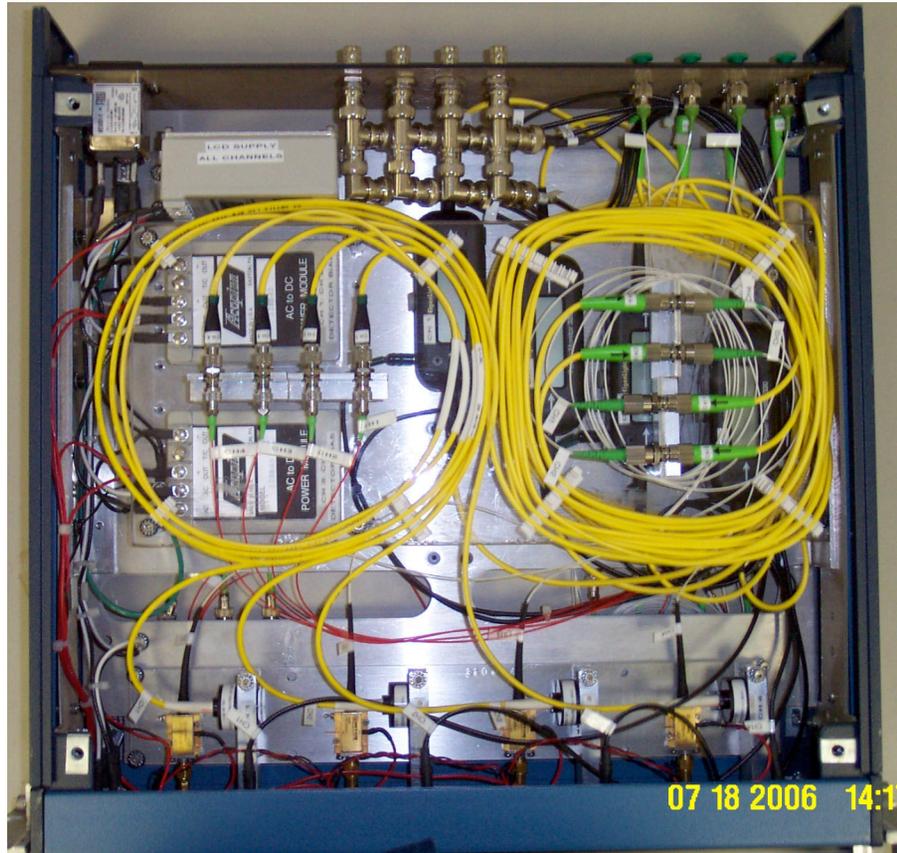
# 2U Rackmount 4-Channel Prototype – 2<sup>nd</sup> Unit



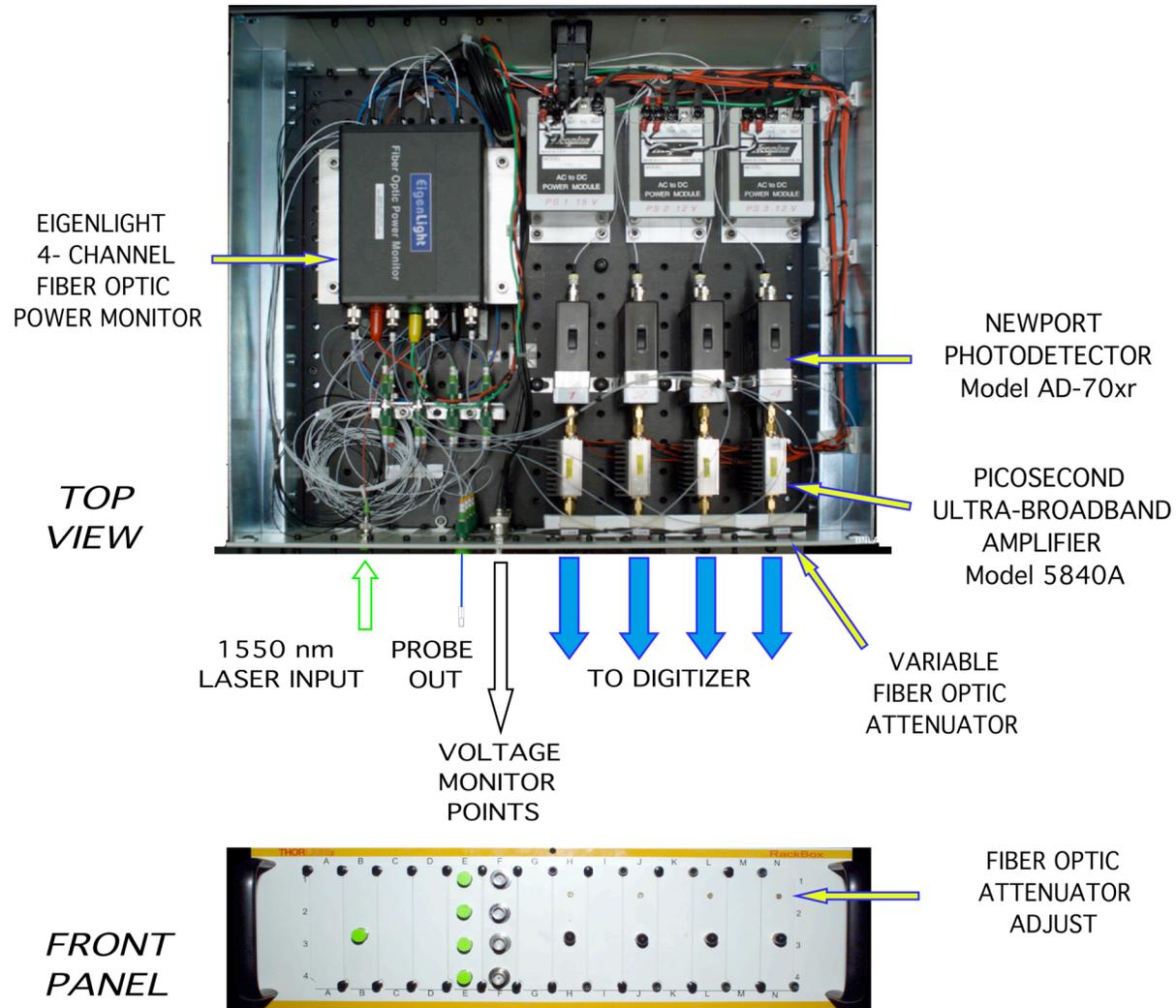
# 2U Rackmount 4-Channel Production Units



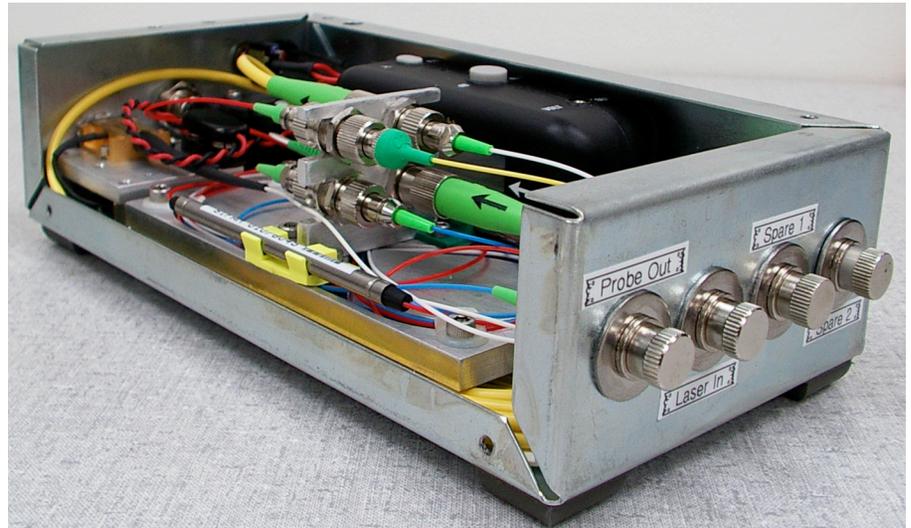
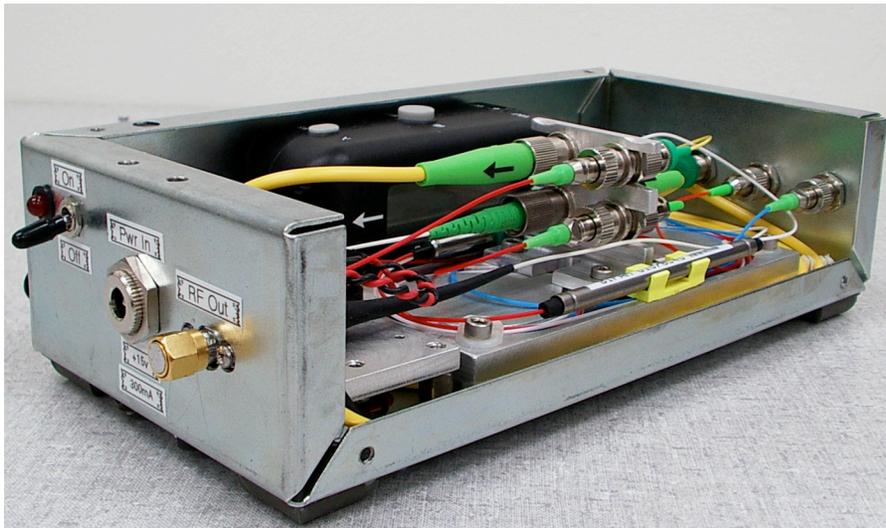
# 2U Rackmount Prototype Refurbishment



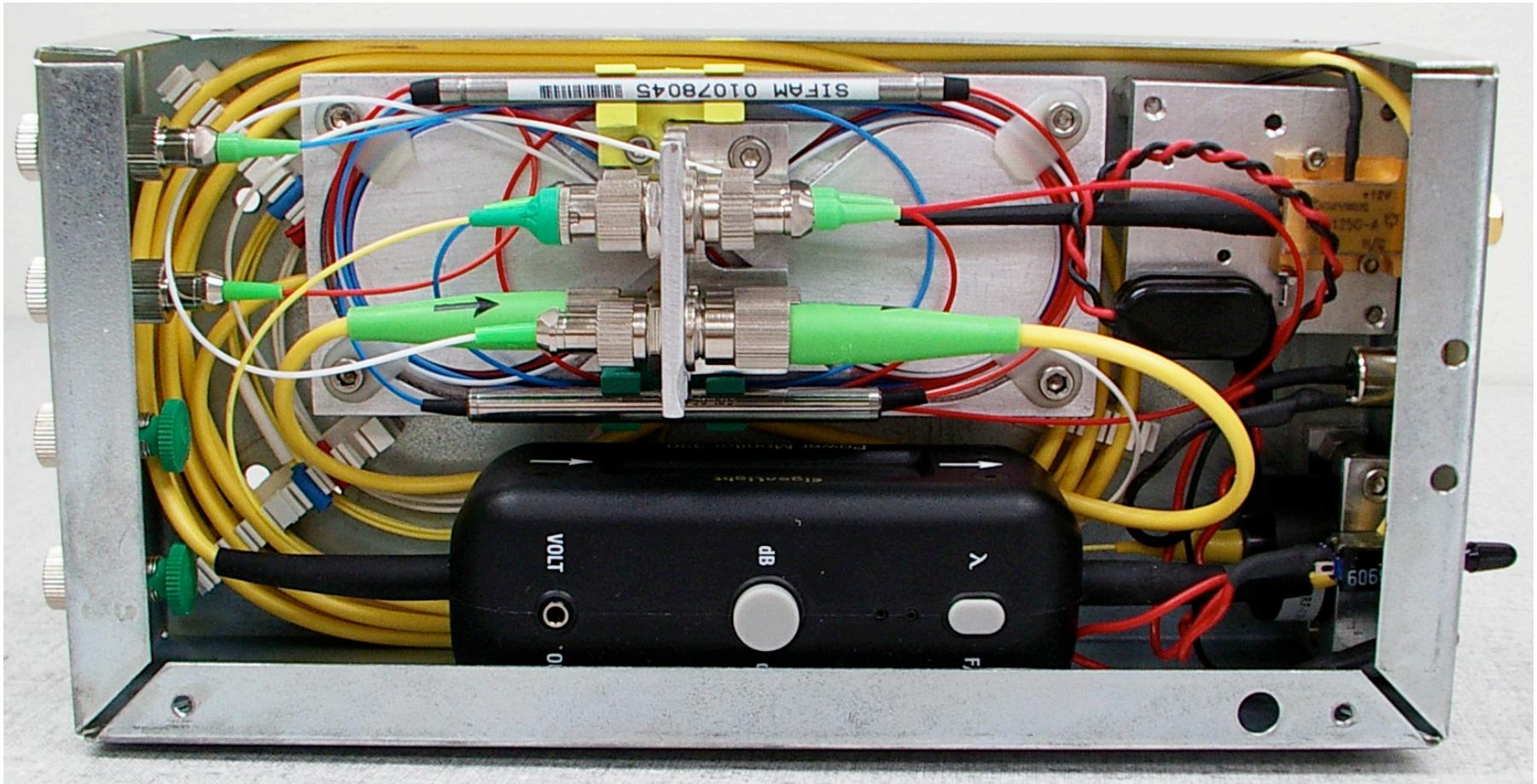
# 3U Rackmount 4-Channel Unit – LLNL Design



# Prototype Single-Point PDV

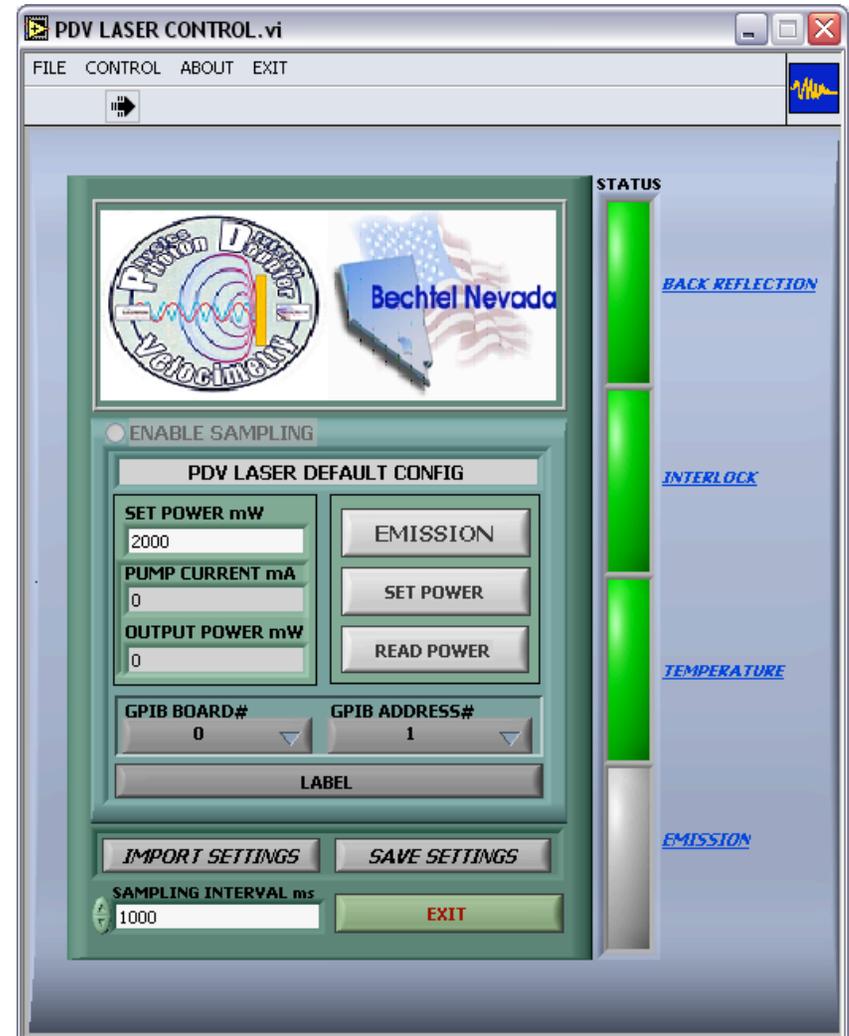


## Prototype Single-Point PDV – Cont.



# IPG Laser Control Software

- LabView Run-Time App.
  - Developed by Bart Briggs at LAO
  - Can control multiple lasers
  - Enables remote operation
  - Created for and refined on Kerinej, Centaur & Krakatau SCEs
  - Release version will soon be available for use on Unicorn SCE



# LAO PDV Development Team

Bart Briggs  
Brad Delamarter  
Doug DeVore  
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Greg Lare  
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Araceli Rutkowski  
Mike Rutkowski  
Matthew Teel  
Aric Tibbitts  
Jason Young

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