

## End Station Optical Table

ALS - End Station Optical Table
(1) DC PD, 532 nm (commercial)
(1) DC PD, 1064 nm (commercial)
(1) RF PD @ $24.5 \mathrm{MHz}, 532 \mathrm{~nm}$ (PDH)
(2) RF WFS @ $24.5 \mathrm{MHz}, 532 \mathrm{~nm}$
(2) XY PZT Steering Mirror (interface to Mad City Labs Module, 2 x in, 2 x out)
(1) RF PD broadband BW~, 1064 nm (Phase locking)
(1) DC PD, 1064 nm (TRX/Y high gain PD for IFO lock acquisition)

Single Arm Test - End Station Optical Table
(1) RF PD @xx MHz, 1064 nm (PHD Ref Cav)
(1) DC PD, 1064 nm (Tr Ref Cav, commercial)


Input beam from corner station
aLIGO ISC
End-station Component Locations (for one IFO)

## ISC Components in End BSC

4 PicoMotor Mounts, 2 motors per mount (1A cables) 2 ETM TransMon. Quads 1064 nm (1 A cable) 2 ETM TransMon. Quads 532nm (1 A cable) 1 TransMon Beam Diverter (1A cable)

Cable Total - (4) A cables

```
Cable Types
    A cables are in-vac 25 pin D-sub
    B cables are in-vac 5 way coaxial
Cable Totals
    End BSC (6) A cables
```


## Typical ISC Electronics Chains



D0900644-V7

## Typical ISC Electronics Chains (Cont.)



## RF Demodulation Chain

Located In Field Rack



