Palomar 60" Focal Plane

D_{60} = 60 inch = 1524

Unvignetted Field:
ø70.2 (18.1')

P60 Scale: 64.7 μ/as
(f = 13,335)

49.7

IFU: 26" □
1.7 x 1.7

12.8' x 12.8' FOV

49.7

ø70.3

Tel Image = D_{60} x $f_{lenslet}/f_{fore}$
= ∅0.0246

Magnification: 12.4

Lenslet Array Focal Plane: Magnified P60 Focal Plane

f_{fore} = 165,040

52 spaxel
[26.3"]

Scale:
800 μ/as

~21

45 spaxel
[26.3"]

IFU Focal Plane: Reimaged Focal Plane of Lenslet Array

Spectrum 3.0 (220 pix) (370 nm - 920 nm)

27.7

39.1 (2896px)

27.7 e2v 2k x 2k
13.5μ CCD

Tel Image
ø0.0324

Tel Image
Spectrograph
f_{col} = 95 (f/4.4)
f_{cam} = 125 (f/5.9)
R ~ 100

Spec (220 px)

$f_{lenslet}$ = 2.664

0.513 [0.64"]

0.444 [0.56"]

0.592 [0.74"]

μpupil image

Best Seeing [1"]

Median Seeing
[2.2"]

On P60 Étendue: 313.3 μ-degree
SED Machine Oversized to: 359.9 μ-degree

Rotated by 20.0 degree
around optical axis
relative to prism

RC Focal Plane: Reimaged P60

f = 7400, M: 0.56x

27.7

RC Scale:
0.376 as/pix
35.9 μ/as

27.7 e2v 2k x 2k
13.5μ CCD

Drawn 23 October 2011
by Nick Konidaris and Sagi Ben-Ami
Version 5 - Updated to newest Rx

All units in mm unless otherwise denoted.
Dimensions for operating temperature.

Lenslet Array Rx: "J"
Magnifying lens Rx: 57r
IFU: 61d
RC Rx: 65s

SED Machine: Optical Interfaces
v5 15 January 2012 (SEDN5)