This is a tpx3-daq ThresholdScan for chip W15-G6.
Run name: ThresholdScan_2025-12-05_14-38-03

Parameter	Value
Ibias_CP_PLL	128
Ibias_DiscS2_OFF	8
Ibias_PixelDAC	100
Ibias_TPbufferIn	128
Sense_DAC	29
VTP_fine	221
Vthreshold_fine	383
n_injections	100

Parameter	Value
Ibias_DiscS1_OFF	8
Ibias_DiscS2_ON	128
Ibias_Preamp_OFF	8
Ibias_TPbufferOut	128
VPreamp_NCAS	128
Vfbk	132
Vthreshold_start	1290
mask_step	256

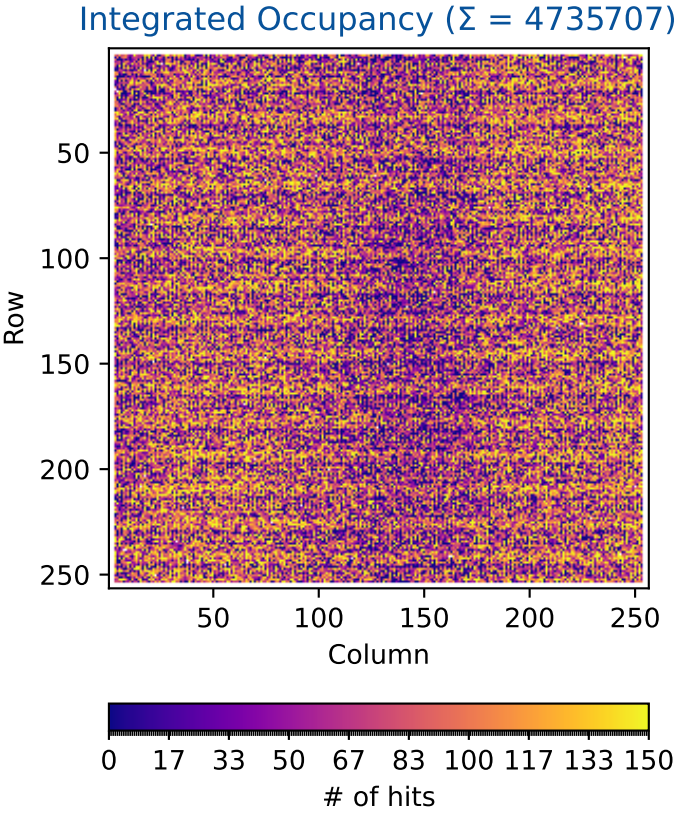
Parameter	Value
Ibias_DiscS1_ON	100
Ibias_Ikrum	3
Ibias_Preamp_ON	150
PLL_Vcntrl	128
VTP_coarse	100
Vthreshold_coarse	6
Vthreshold_stop	1450
tp_period	3

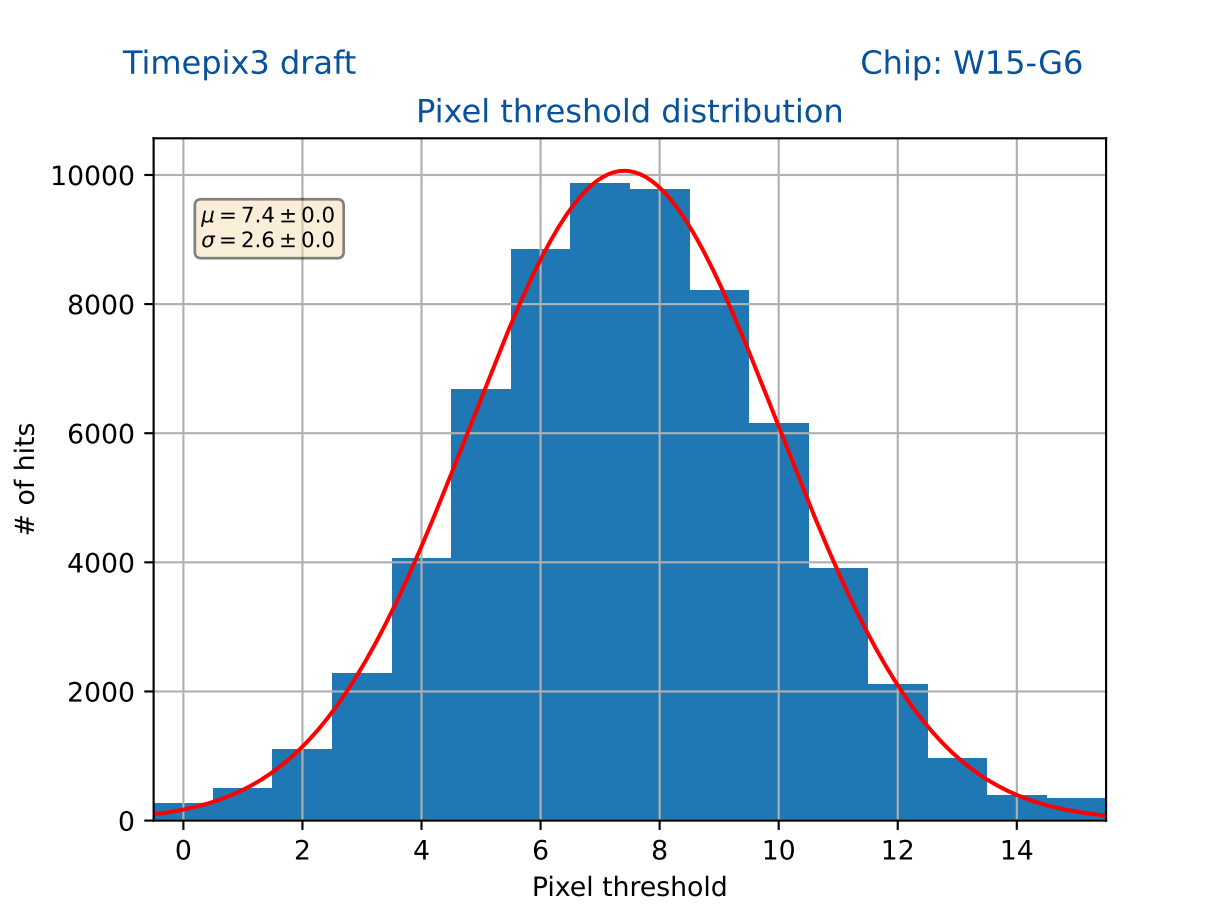
Software version: 0.9.0
Readout board: FECv6
Firmware version: 4

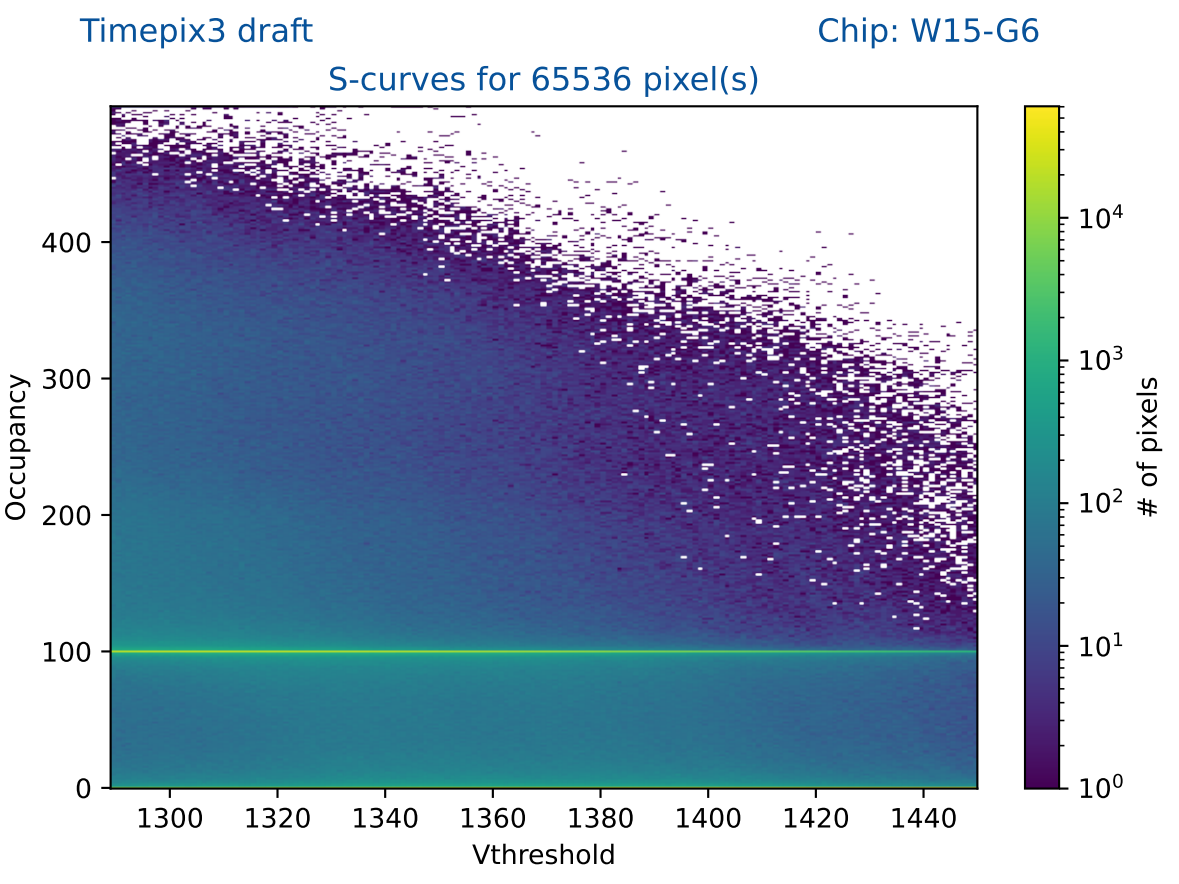
Have a good day!

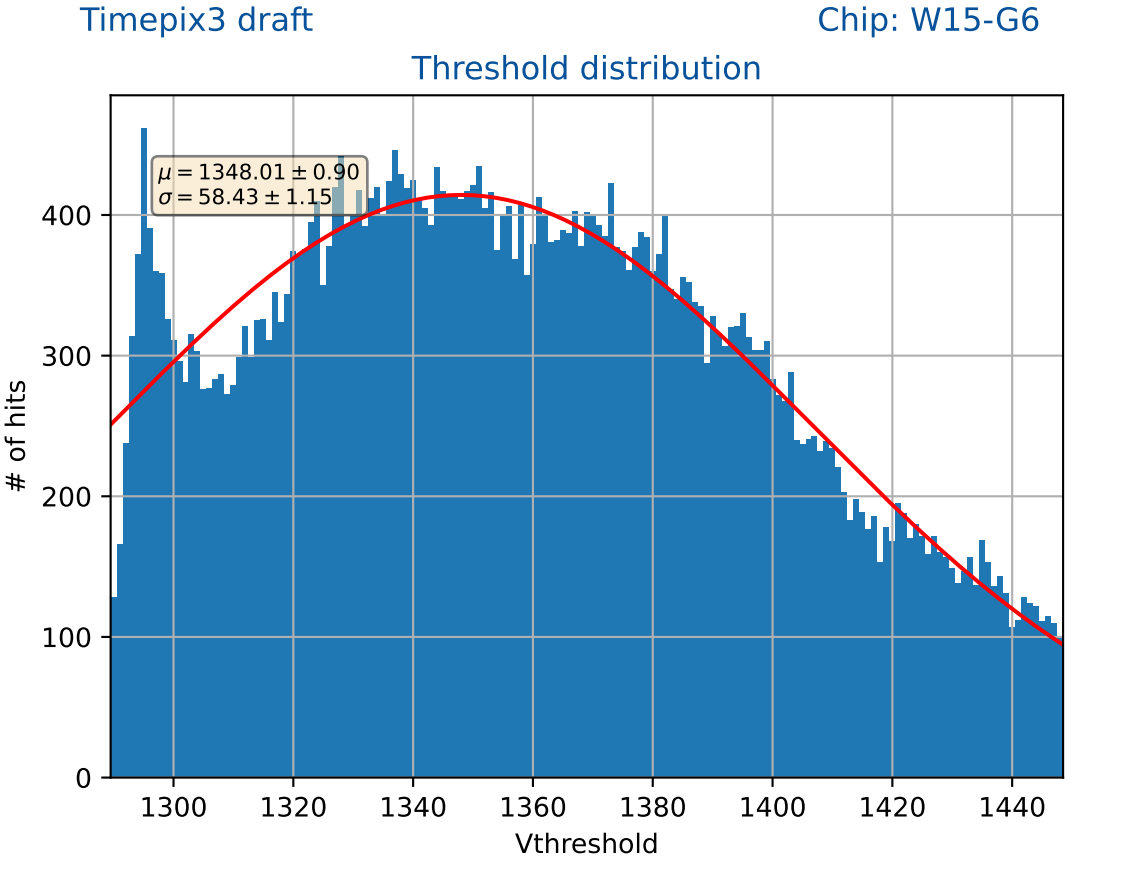
Equalisation:
/home/ixpe_user/Timepix3/equalisations/W15-G6_equal-Bonn.h5
Maskfile:
/home/ixpe_user/Timepix3/masks/W15-G6_mask-Bonn.h5

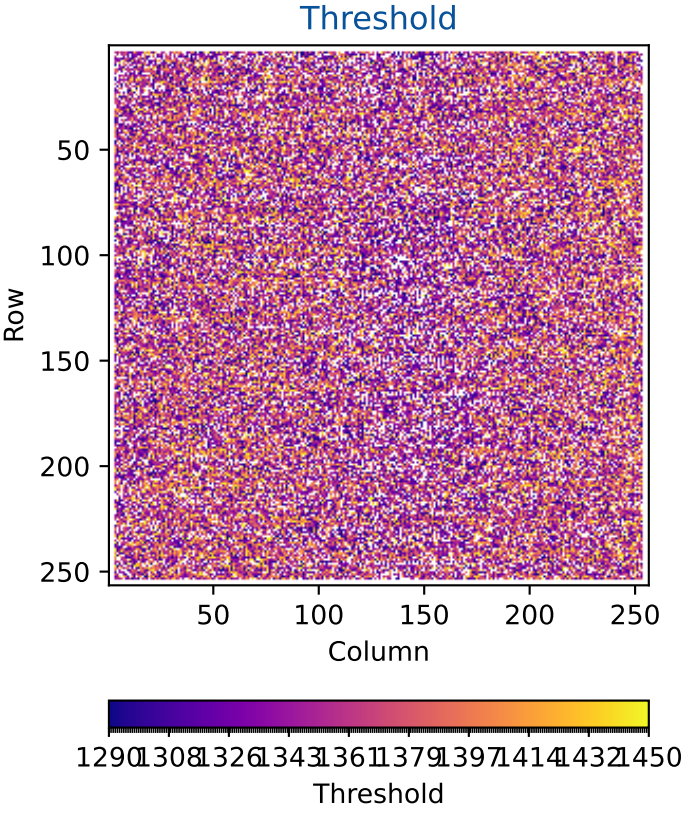
Timepix3 draft Chip: W15-G6

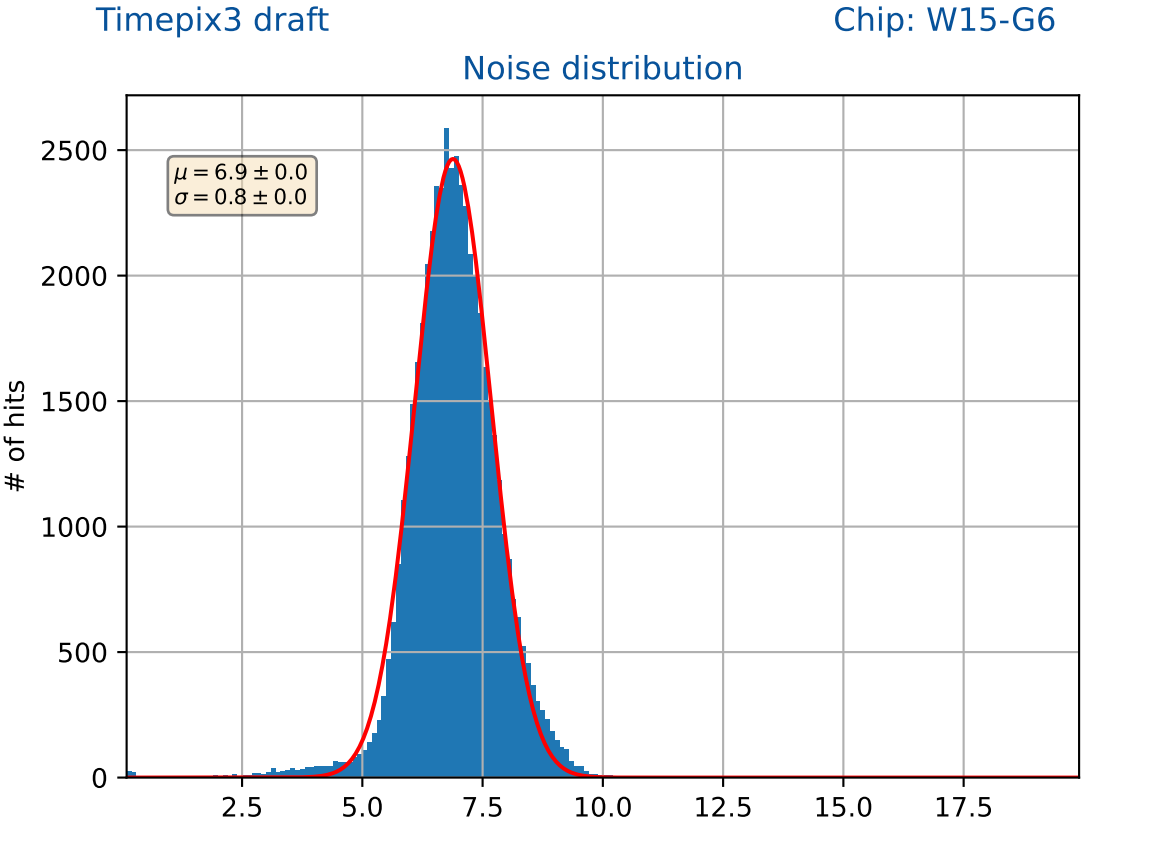


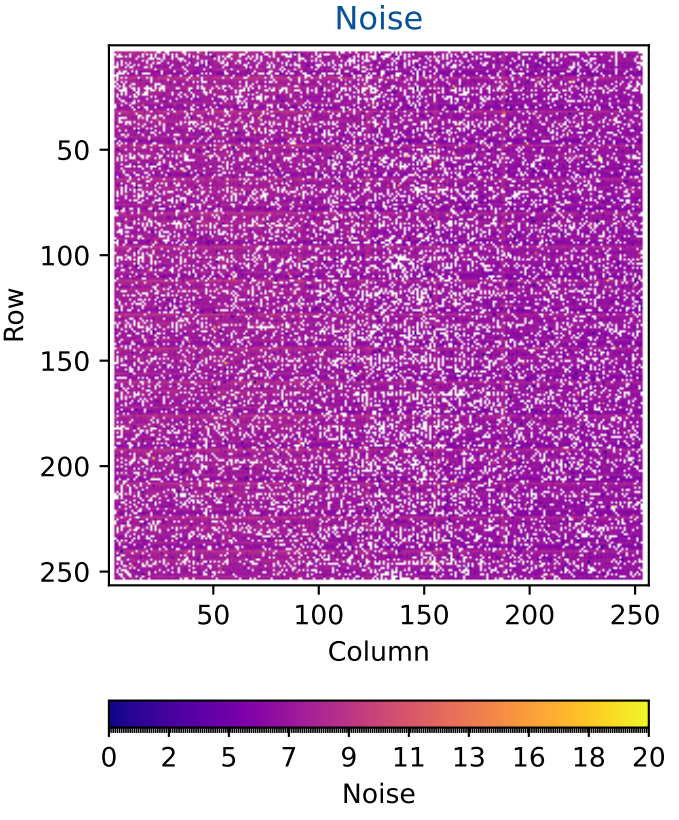

Timepix3 draft
Chip: W15-G6
Pixel threshold distribution
$\mu = 7.4 \pm 0.0$
$\sigma = 2.6 \pm 0.0$
# of hits
Pixel threshold
0
2000
4000
6000
8000
10000
0
2
4
6
8
10
12
14


Timepix3 draft
Chip: W15-G6
S-curves for 65536 pixel(s)
Occupancy
0
100
200
300
400
1300
1320
1340
1360
1380
1400
1420
1440
Vthreshold
# of pixels
10^0
10^1
10^2
10^3
10^4


Timepix3 draft
Chip: W15-G6
Threshold distribution
$\mu = 1348.01 \pm 0.90$
$\sigma = 58.43 \pm 1.15$
# of hits
Vthreshold
0
100
200
300
400
1300
1320
1340
1360
1380
1400
1420
1440


Threshold
Row
50
100
150
200
250
Column
50
100
150
200
250
1290
1308
1326
1343
1361
1379
1397
1414
1432
1450
Threshold


Timepix3 draft
Chip: W15-G6
Noise distribution
$\mu = 6.9 \pm 0.0$
$\sigma = 0.8 \pm 0.0$
# of hits
0
500
1000
1500
2000
2500
2.5
5.0
7.5
10.0
12.5
15.0
17.5


Noise
Row
50
100
150
200
250
Column
50
100
150
200
250
0
2
5
7
9
11
13
16
18
20
Noise