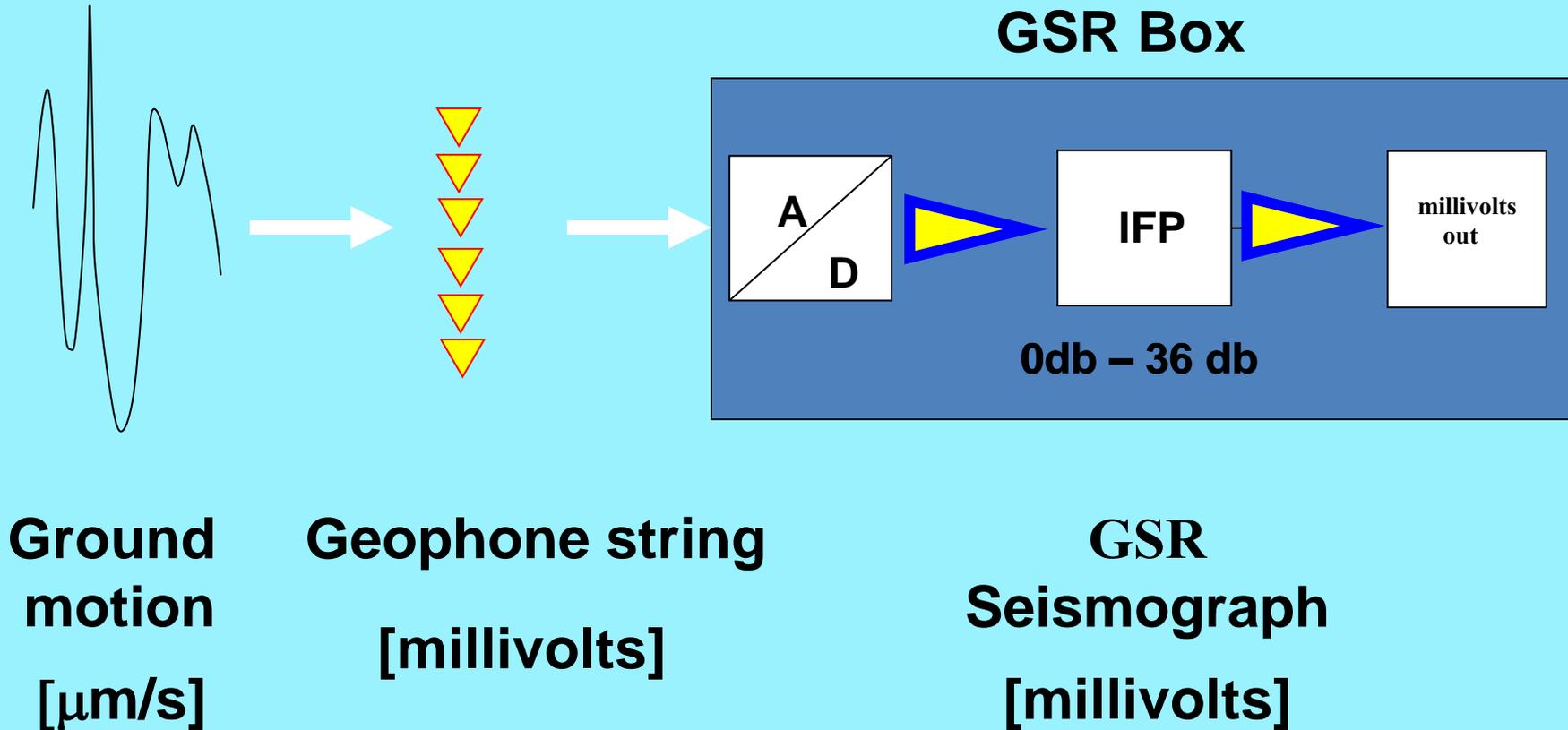


Seismic Acquisition Stream

Buried Array

OYO GSR System

GSR Box



Ground motion
[$\mu\text{m/s}$]

Geophone string
[millivolts]

GSR Seismograph
[millivolts]

Conversion Factors

Buried Array

OYO GSR System

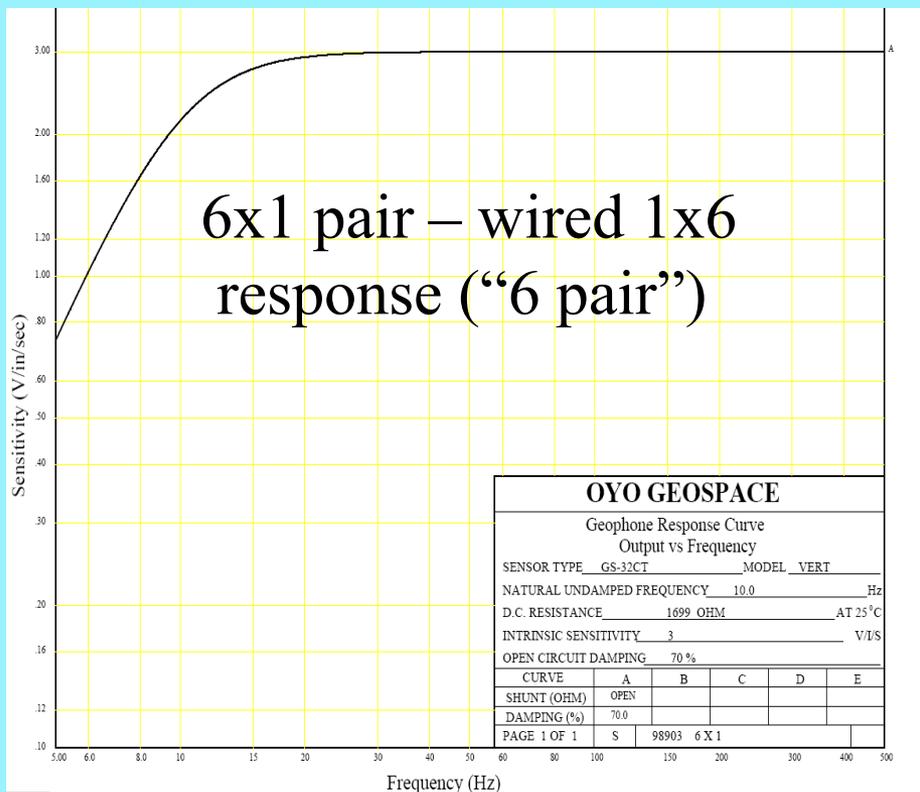
- **36 dB recording gain**
- **System Options: 0,6,12,18,24,30,36dB**

- No multiplication. Data is in millivolts.

Buried Array

OYO GSR System

Impulse Response Curve - For One (1) geophone



(1 geophones -> .5*1) (1x1)
Sensitivity = .5 V/in/sec
(3 geophones -> .5*3) (3x2)
Sensitivity = 1.5 V/in/sec
(6 geophones -> .5*6) (6x1)
Sensitivity = 3V/in/sec

Volts to millivolts and inches to nm:
(1x1)= .00001968 mV/nm/sec
(1x2)= .00003937 mV/nm/sec
(3x2)= .00005905 mV/nm/sec
(6x1)= .0001181 mV/nm/sec

Divide data by the sensitivity:
1/sensitivity

Wired 6x1:

Multiply traces by **8,467** to convert
To ground motion in nm/sec

Wired 1x1:

Multiply traces by **50,813** to convert
To ground motion in nm/sec

Wired 3x2:

Multiply traces by **16,934** to convert
To ground motion in nm/sec