

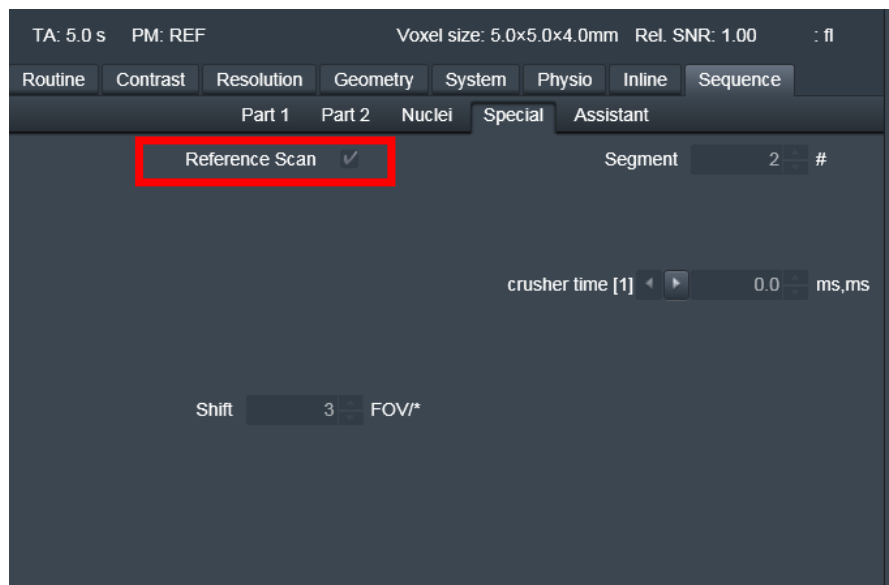
## On the scanner you need:

- 1) 32-ch/64-ch head coil
- 2) Each fMRI run: 1 reference scan (~ few sec) + 1 acc scan (~few mins)

## Reference scan

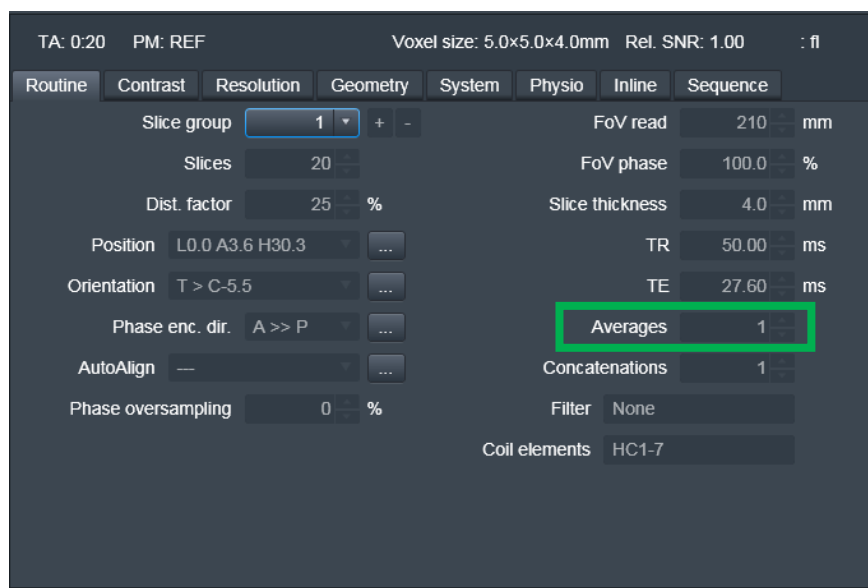
Details are in MBSIREPI\_ref.pdf file

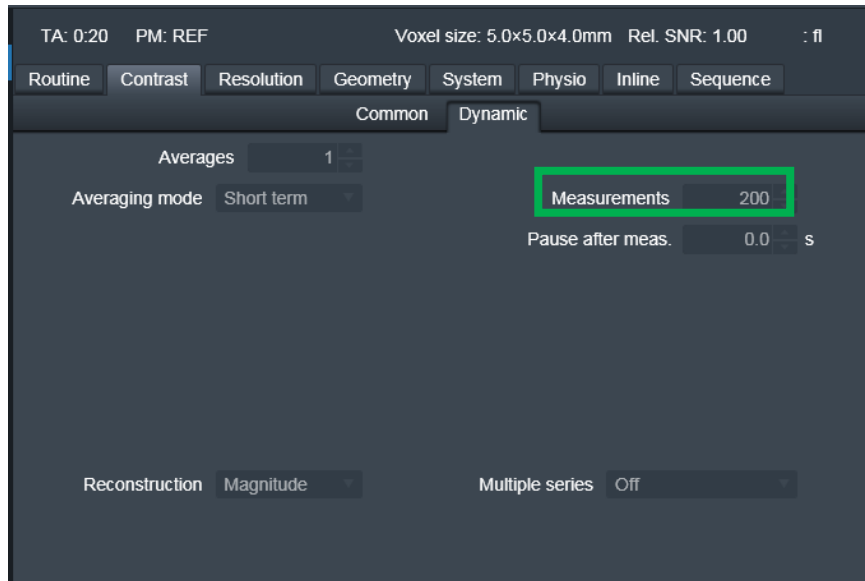
**Notice: check Reference Scan**



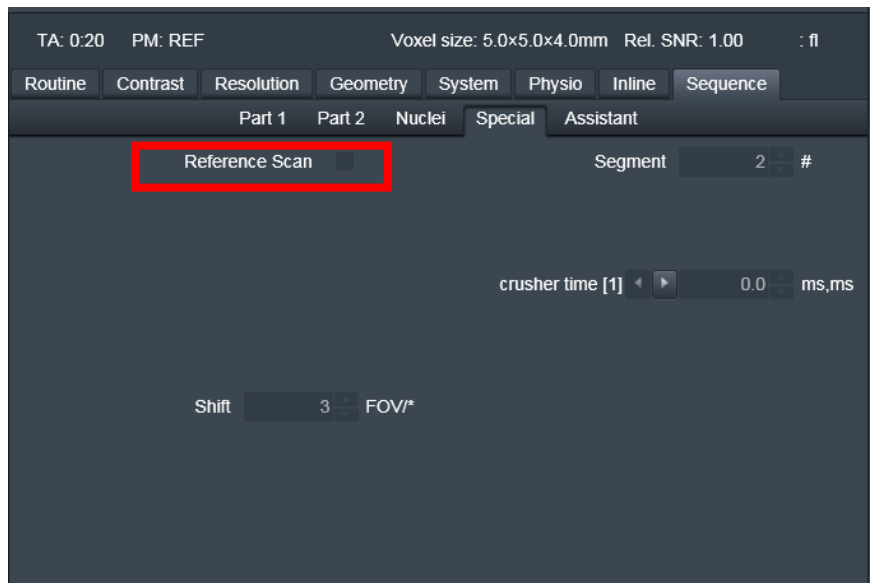
## Acc scan (size ~ XX GB)

Details are in MBSIREPI\_acc.pdf file





**Notice: do not check Reference Scan**



**To achieve higher scan number, please use “Averages” option**

Averages = 1,2,3,.....

For example: total 4 min =  $4 \times 60 / (0.1 \text{ sec})$  : 2400 scans

set “Measurements = 200” and “Averages = 12”,

let “Measurements” \* “Averages” = total scan

**Every 1<sup>st</sup> measure in Acc scan is the navigator. It is included in your acc total scan.**

**Most parameters in Ref and Acc scan are the same, except Averages, Measurements, and Reference check box.**

## Reconstruction (matlab code files are in dir: “recon”):

Using matlab toolbox that we provide

```
>> [ ref, acc ] = MBrecon ( 'meas_ref.dat','meas_acc.dat', 0.0005 );
```

**The 1<sup>st</sup> measure in acc is the navigator. Please use the acc data from 2<sup>nd</sup> measurement!**