On the scanner you need:

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

Reference scan (2 segments, takes few sec, size ~ 200MB)

1. Slice = **20**
2. Phase enc. Dir = **R>>L**
3. Fov read = **210** mm
4. TR = **50** ms
   TE = **27.5** ms
5. Flip angle = **25** deg
6. Measurements = **10**
7. Base resolution = **42**
8. Bandwidth = **3970** Hz/px
9. Reference Scan box **checked**

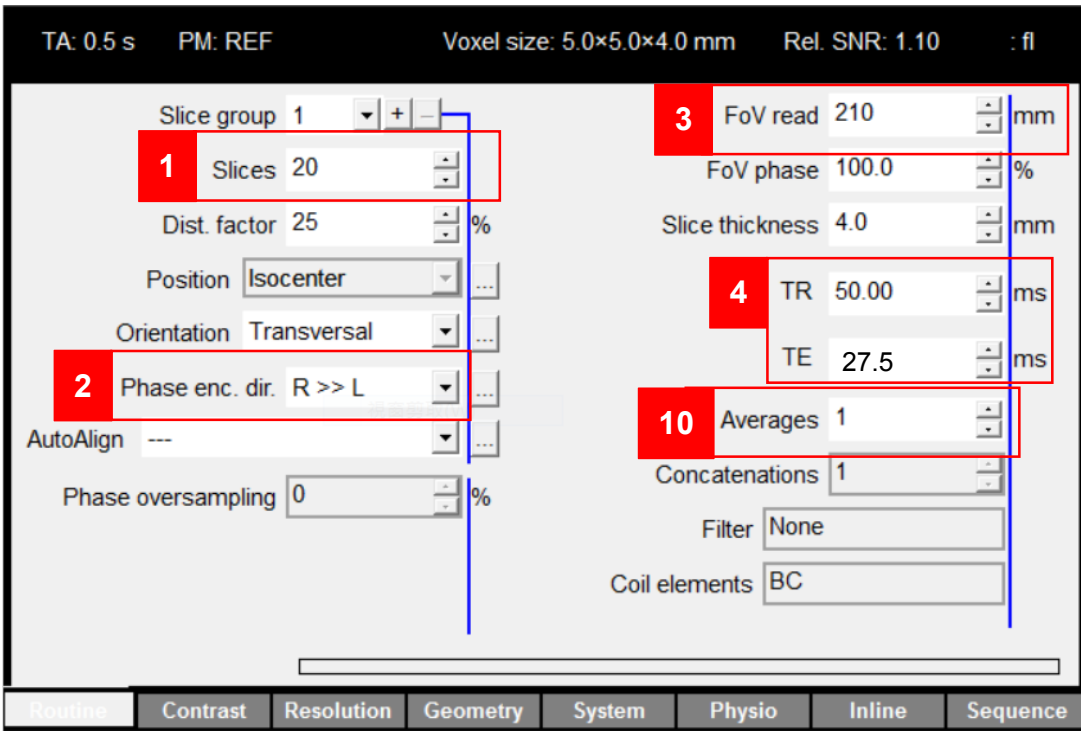
Acc scan (2 segments, takes few mins, size ~ XX GB)

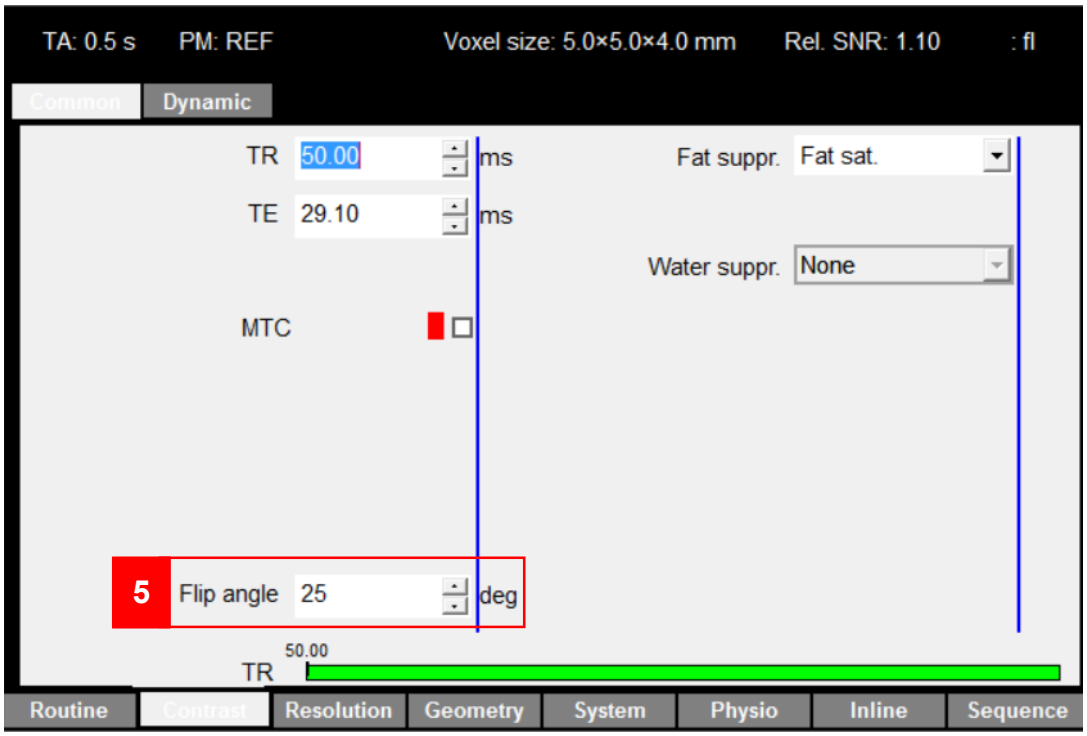
1. Slice = **20**
2. Phase enc. Dir = **R>>L**
3. Fov read = **210** mm
4. TR = **50** ms (the whole brain sampling rate is 10Hz = 0.1 sec),
   TE = **27.5** ms
5. Flip angle = **25** deg
6. Measurements = **2460** (= 60 dummy scan + 2400 scan = 246 sec for example)
7. Base resolution = **42**
8. Bandwidth = **3970** Hz/px
9. Reference Scan box **unchecked**

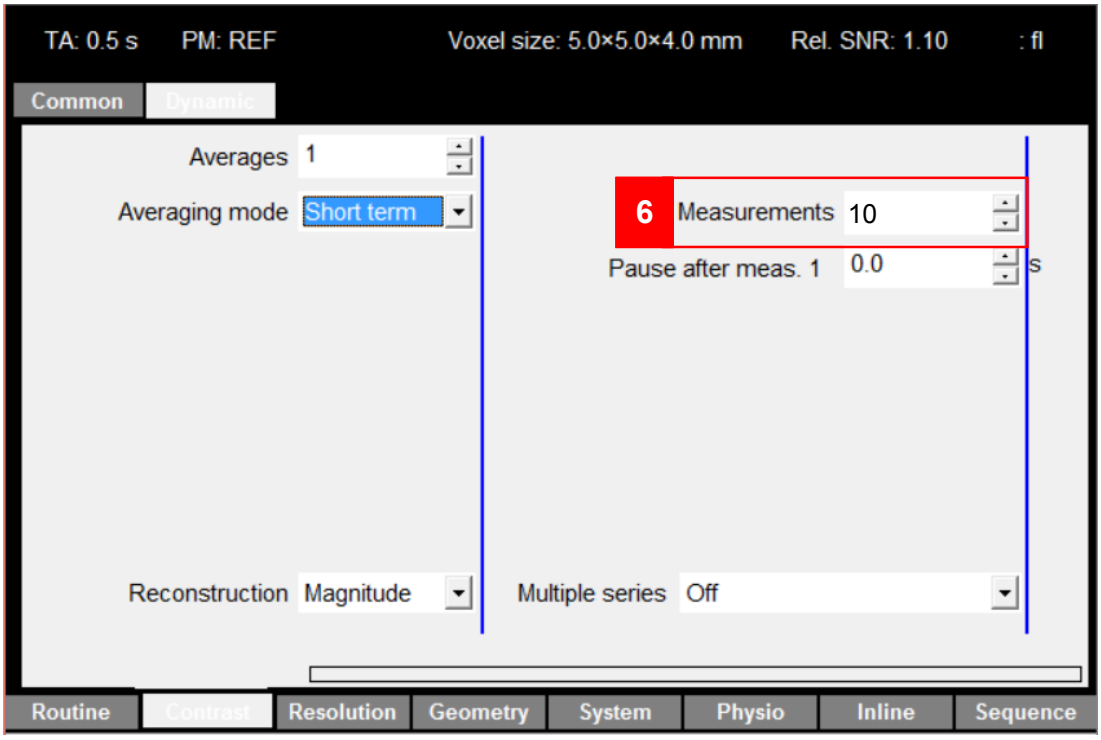
To achieve higher scan number, please use "Averages" option

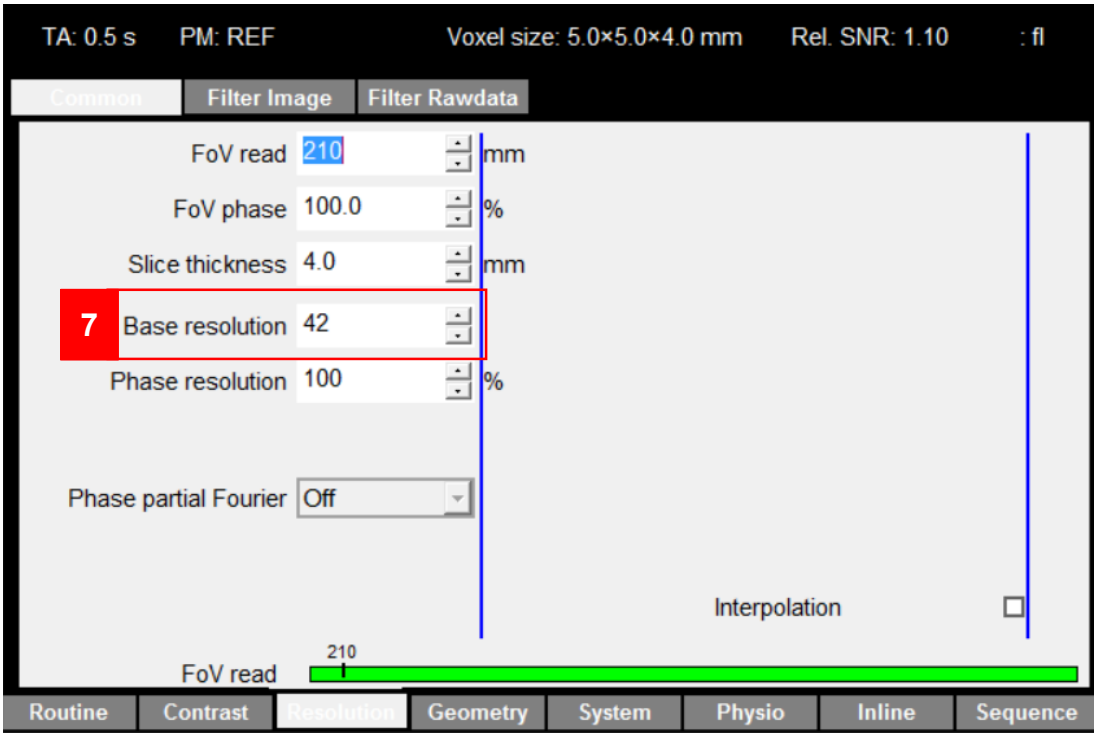
10. Averages = **1,2,3,…..**
    For example: total 20 min = 20*60 / (0.1sec) = 12000 scans

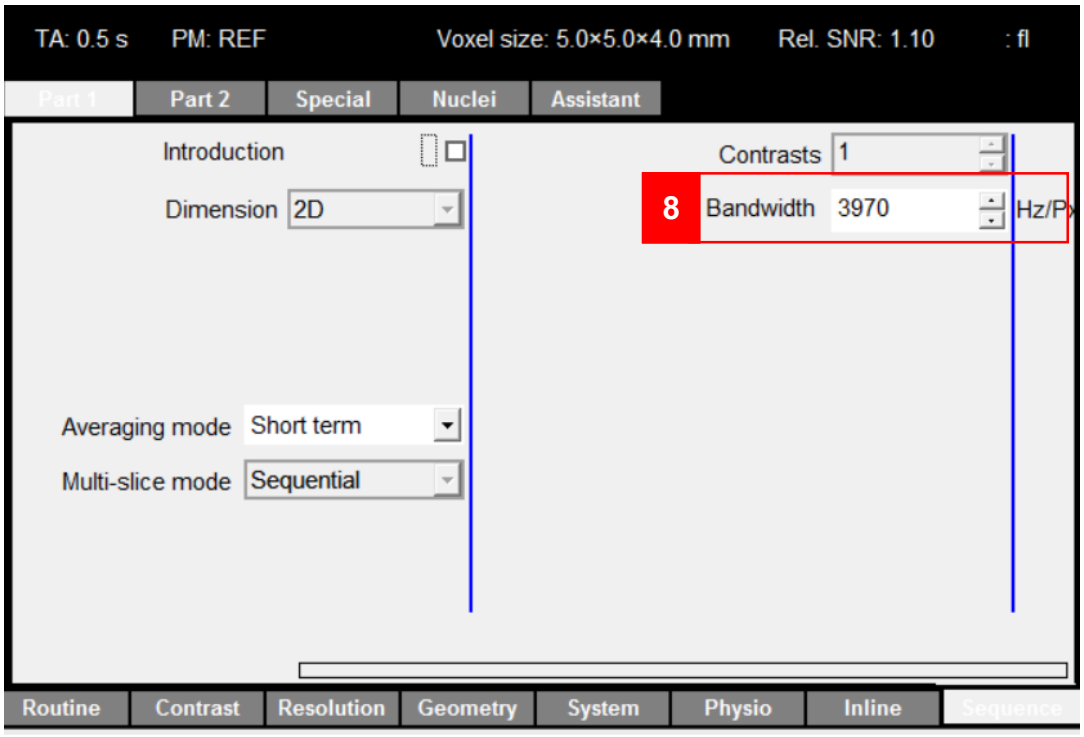
set “Measurements = **2000**” and “Averages = **6**”,
let “Measurements” * “Averages” = total scan

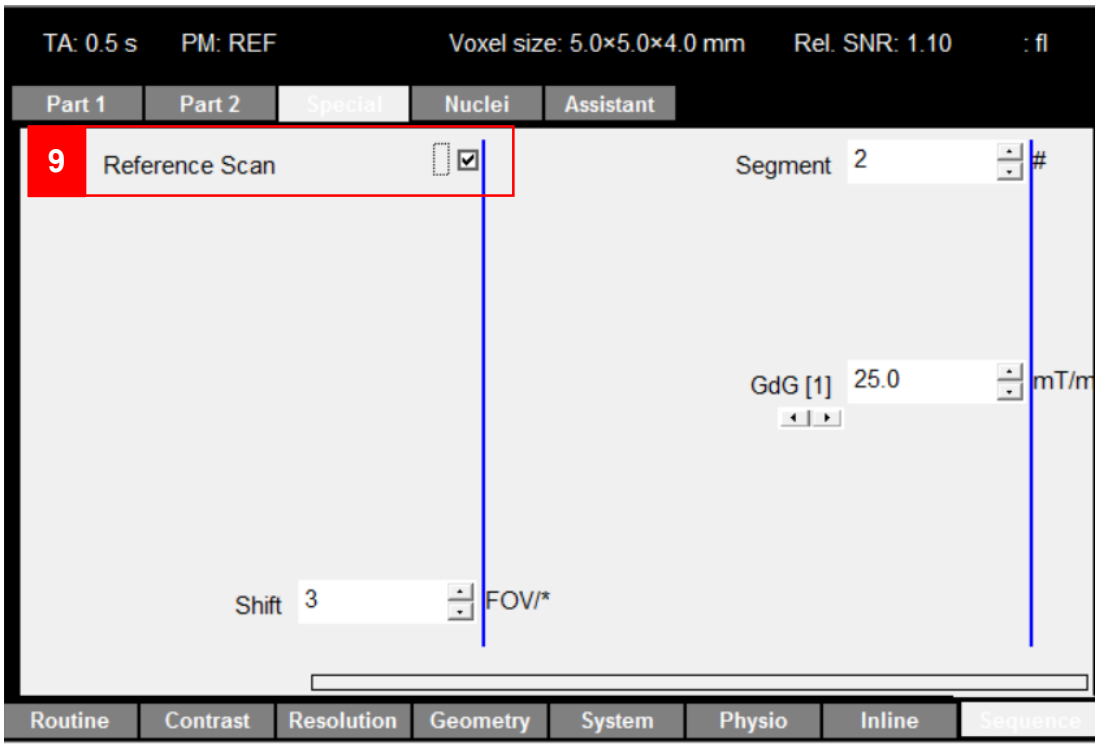





TA: 0.5 s
PM: REF
Voxel size: 5.0×5.0×4.0 mm
Rel. SNR: 1.10
: fl
Common
Dynamic
Averages 1
Averaging mode Short term
6
Measurements 10
Pause after meas. 1 0.0 s
Reconstruction Magnitude
Multiple series Off
Routine
Contrast
Resolution
Geometry
System
Physio
Inline
Sequence


TA: 0.5 s
PM: REF
Voxel size: 5.0×5.0×4.0 mm
Rel. SNR: 1.10
: fl
Common
Filter Image
Filter Rawdata
FoV read 210 mm
FoV phase 100.0 %
Slice thickness 4.0 mm
7
Base resolution 42
Phase resolution 100 %
Phase partial Fourier Off
Interpolation
210
FoV read
Routine
Contrast
Resolution
Geometry
System
Physio
Inline
Sequence


TA: 0.5 s
PM: REF
Voxel size: 5.0×5.0×4.0 mm
Rel. SNR: 1.10
: fl
Part 1
Part 2
Special
Nuclei
Assistant
Introduction
Dimension
2D
Contrasts
1
8
Bandwidth
3970
Hz/Px
Averaging mode
Short term
Multi-slice mode
Sequential
Routine
Contrast
Resolution
Geometry
System
Physio
Inline
Sequence


TA: 0.5 s
PM: REF
Voxel size: 5.0×5.0×4.0 mm
Rel. SNR: 1.10
: fl
Part 1
Part 2
Special
Nuclei
Assistant
9
Reference Scan
Segment
2
#
GdG [1]
25.0
mT/m
Shift
3
FOV/*
Routine
Contrast
Resolution
Geometry
System
Physio
Inline
Sequence