

WRIST Arthro DISCOVERY MR750w

Technical Instructions

Rt 3-PLANE LOC

Lt 3-PLANE LOC

+AX T1 cl fat

+COR PD Cube Fat

+COR T1 cl fat

+COR T2 cl fat

+SAG T1

+AX T2 dk fat

Rt 3-PLANE LOC

Rt 3-PLANE LOC

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, EDR, Fast, SS

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV1: 1.00
User CV2: 240.00
User CV13: 1.00
User CV16: None
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

Synthetic b-values: 1
Synthetic b-value: 1000.0;
Recon All Images: On

SCAN TIMING

TE: 85.0
Number of Echoes: 1
TR: Minimum
Receiver Bandwidth: 62.50

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0
Mask Pause: 0

Preserve: 0

SCAN RANGE

FOV: 30.0
Slice Thickness: 5.0
Slice Spacing: 5.0
Table Delta: 0.00

ACQ TIMING

Freq: 384
Phase: 256
Freq DIR: Unswap
of Acq. Before Pause: 0
Phase FOV: 1.00
Auto Shim: Auto
Phase Correct: Off
RF Drive Mode: Preset
Excitation Mode: Selective

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

3D Geometry Correction: Off

Anatomical Region:

Wrist joint

Lt 3-PLANE LOC

Lt 3-PLANE LOC

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	3-PLANE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	Spin Echo
Imaging Options:	Seq, EDR, Fast, SS

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type: None

USER CVS

User CV1: 1.00
User CV2: 240.00
User CV13: 1.00
User CV16: None
User CV39: 1.00
User CV Mask2: 256

DIFFUSION

Synthetic b-values: 1
Synthetic b-value: 1000.0;
Recon All Images: On

SCAN TIMING

TE: 85.0
Number of Echoes: 1
TR: Minimum
Receiver Bandwidth: 62.50

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0
Mask Phase: 0
Mask Pause: 0

Preserve: 0

SCAN RANGE

FOV: 30.0
Slice Thickness: 5.0
Slice Spacing: 5.0
Table Delta: 0.00

ACQ TIMING

Freq: 384
Phase: 256
Freq DIR: Unswap
of Acq. Before Pause: 0
Phase FOV: 1.00
Auto Shim: Auto
Phase Correct: Off
RF Drive Mode: Preset
Excitation Mode: Selective

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

3D Geometry Correction: Off

Anatomical Region:

Wrist joint

+AX T1 cl fat

+AX T1 cl fat

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, ARC
Phase:	1.50

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat Classic

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	500.0
TR Max:	900.0

DIFFUSION

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

SCAN TIMING

Flip Angle:	111
TE:	20.0

Number of Echoes:	1
TR:	500.0
Echo Train Length:	2
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type:	Off
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MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	10.0
Slice Thickness:	3.0
Slice Spacing:	0.5
Table Delta:	0.00

ACQ TIMING

Freq:	288
Phase:	224
Freq DIR:	Swap
NEX:	2.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On

RF Drive Mode:	Quadrature
Excitation Mode:	Selective
Fat Shift DIR:	Normal

CONTRAST

Contrast Yes/No:	No
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TRICKS

Pause On/Off:	On
Auto Subtract:	0

OTHERS

Anatomical Region:	Wrist joint
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+COR PD Cube Fat

+COR PD Cube Fat

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	CORONAL

IMAGING PARAMETERS

Imaging Mode:	3D
Pulse Sequence:	Cube
Imaging Options:	EDR, Fast, ZIP512, ZIP2, FR, ARC, HS
Phase:	1.25
Slice:	1.00
HyperSense:	1.10

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat

USER CVS

User CV5:	0.70
User CV12:	70.00
User CV22:	1.00
User CV30:	1.00
User CV Mask2:	0

DIFFUSION

Multi b-values:	1000.0;
Multi NEX Values:	1;
# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

SCAN TIMING

TE:	30.0
Number of Echoes:	1
TR:	1500.0
Echo Train Length:	35
Receiver Bandwidth:	62.50

GATING/TRIGGER

Auto Trigger Type:	Off
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MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	14.0
Slice Thickness:	1.0
Location per Slab:	60
Overlap Locations:	0
Table Delta:	0.00

TRACKER

Tracker Length:	200.0
Tracker Thickness:	20.0

ACQ TIMING

Freq:	288
Phase:	224
Freq DIR:	S/I
NEX:	1.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	Off
RF Drive Mode:	Quadrature
Excitation Mode:	Selective

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

3D Geometry Correction: Off

Anatomical Region: Wrist joint

+COR T1 cl fat

+COR T1 cl fat

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, ARC
Phase:	1.50

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
Tag Type:	None
Fat/Water Saturation:	Fat Classic

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV39:	None
User CV Mask2:	256
TR Min:	500.0
TR Max:	900.0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	20.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	2

Receiver Bandwidth: 41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 10.0

Slice Thickness: 2.0

Slice Spacing: 0.2

Table Delta: 0.00

ACQ TIMING

Freq: 288

Phase: 224

Freq DIR: Unswap

NEX: 2.00

Phase FOV: 1.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Wrist joint

+COR T2 cl fat

+COR T2 cl fat

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	NPW, EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat Classic

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV39:	None
User CV Mask2:	256
TR Min:	2200.0
TR Max:	6000.0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	68.0
Number of Echoes:	1
TR:	2200.0
Echo Train Length:	6
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 10.0

Slice Thickness: 2.0

Slice Spacing: 0.2

Number of Slices: 15

Table Delta: 0.00

ACQ TIMING

Freq: 288

Phase: 256

Freq DIR: Unswap

NEX: 2.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Wrist joint

+SAG T1

+SAG T1

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, ARC
Phase:	1.50

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
Tag Type:	None

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV16:	None
User CV18:	None
User CV21:	1.00
User CV22:	1.00
User CV39:	None
User CV Mask2:	256
TR Min:	500.0
TR Max:	900.0

DIFFUSION

Recon All Images:	On
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SCAN TIMING

Flip Angle:	111
TE:	20.0
Number of Echoes:	1
TR:	500.0
Echo Train Length:	2
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type: Off

MULTI-PHASE

Seperate Series: 0

Mask Phase: 0

Mask Pause: 0

SCAN RANGE

FOV: 10.0

Slice Thickness: 3.0

Slice Spacing: 0.5

Table Delta: 0.00

ACQ TIMING

Freq: 288

Phase: 224

Freq DIR: Unswap

NEX: 2.00

Phase FOV: 1.00

Auto Shim: Auto

Phase Correct: On

RF Drive Mode: Quadrature

Excitation Mode: Selective

Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On

Auto Subtract: 0

OTHERS

Anatomical Region: Wrist joint

+AX T2 dk fat

+AX T2 dk fat

PATIENT POSITION

Coil Configuration:	GEM Flex Small
Plane:	OBLIQUE

IMAGING PARAMETERS

Imaging Mode:	2D
Pulse Sequence:	FSE-XL
Imaging Options:	EDR, TRF, Fast, FR

Image Recon

Intensity Filter:	None
Intensity Correction:	NONE

FMRI

Brain Wave Real Time:	None
PSD Trigger:	Internal
Slice Order:	Interleaved
View Order:	Bottom/Up
# of Repetitions REST:	0
# of Repetitions ACTIVE:	0

SAT

Tag Spacing:	None
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Tag Type:	None
Fat/Water Saturation:	Fat Classic

USER CVS

User CV6:	None
User CV7:	None
User CV8:	None
User CV9:	None
User CV15:	None
User CV18:	None
User CV19:	1.00
User CV21:	1.00
User CV22:	1.00
User CV30:	1.00
User CV39:	1.00
User CV Mask2:	256
TR Min:	2200.0
TR Max:	6000.0

DIFFUSION

# Synthetic b-values:	1
Synthetic b-value:	1000.0;
Recon All Images:	On

SCAN TIMING

Flip Angle:	111
TE:	80.0
Number of Echoes:	1
TR:	3065.0

Echo Train Length:	19
Receiver Bandwidth:	41.67

GATING/TRIGGER

Auto Trigger Type:	Off
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MULTI-PHASE

Seperate Series:	0
Mask Phase:	0
Mask Pause:	0
Preserve:	0

SCAN RANGE

FOV:	10.0
Slice Thickness:	3.0
Slice Spacing:	0.5
Number of Slices:	15
Table Delta:	0.00

ACQ TIMING

Freq:	288
Phase:	256
Freq DIR:	Swap
NEX:	2.00
Phase FOV:	1.00
Auto Shim:	Auto
Phase Correct:	On
RF Drive Mode:	Quadrature

Excitation Mode: Selective
Fat Shift DIR: Normal

CONTRAST

Contrast Yes/No: No

TRICKS

Pause On/Off: On
Auto Subtract: 0

OTHERS

Anatomical Region: Wrist joint