

# Yokogawa MEG Reader Toolbox

Revision 1.5

## Specifications

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This software consists of following functions:

Category	Function name	Purpose
Read MEG data	getYkgwData	Get measurement data.
Read MEG header	getYkgwHdrSystem	Get information about system.
	getYkgwHdrChannel	Get information about channel.
	getYkgwHdrAcqCond	Get information about data acquisition condition.
	getYkgwHdrEvent	Get information about trigger event.
	getYkgwHdrCoregist	Get information about coregistration.
	getYkgwHdrDigitize	Get information about digitization.
	getYkgwHdrSubject	Get information about subject.
	getYkgwHdrBookmark	Get information about bookmark.
	getYkgwHdrSource	Get information about analyzed sources.
Read MRI	getYkgwMriHdr	Get information about header of MRI file (*.mri).
Others	getYkgwVersion	Get information about version of this toolbox.

## getYkgwData

This function retrieves the measurement data of whole channels by the specified file path and sample range.

```
data = getYkgwData(
    filepath,
    start_sample,
    sample_length
);
```

### Arguments:

filepath	string	[in] File path
start_sample	double	[in] Start sample or trial(frame) number for retrieving data. The start number corresponding to each acquisition type is as follows : - Continuous Raw : Start sample number for retrieving data. (0 origin) - Evoked Average : Start sample number for retrieving data. (0 origin) - Evoked Raw : Start frame number for retrieving data. (1 origin) When both <i>start_sample</i> and <i>sample_length</i> are omitted, you can get data of whole samples.
sample_length	double	[in] Sample length for retrieving data. The number of samples or trials(frames) corresponding to each acquisition type is as follows : - Continuous Raw : Number of samples for retrieving data. - Evoked Average : Number of samples for retrieving data. - Evoked Raw : Number of trials(frames) for retrieving data. When this parameter is omitted or is specified as 'Inf', you can get data from start_sample to the end of sample(frame).

### Return values:

data	matrix(double)	[out] double matrix of measurement data. Row : number of channels(whole channel), Column : number of samples Unit of the each channel depends on channel type as follows: Magnetometer [Tesla] AxialGradioMeter [Tesla] PlanarGradioMeter [Tesla] ReferenceMagnetometer [Tesla] ReferenceAxialGradioMeter [Tesla] ReferencePlanarGradioMeter [Tesla] TriggerChannel [Volt] EegChannel [Volt] *This has already been reflected EEG gain EcgChannel [Volt] *This has already been reflected ECG gain EtcChannel [Volt] NullChannel [Volt]
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## getYkgwHdrSystem

This function retrieves information of the system.

```
system_info = getYkgwHdrSystem(
    filepath
);
```

### Arguments:

filepath	string	[in] File path
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### Return values:

system_info	structure	[out] The structure of system information.
.version	double	Data version
.revision	double	Data revision
.system_id	double	System ID
.system_name	string	System name
.model_name	string	Model name

## getYkgwHdrChannel

This function retrieves information about channel.

```
channel_info = getYkgwHdrChannel(filepath);
```

### Arguments:

*filepath* string [in] File path

### Return values:

*channel\_info* structure [out] The structure of channel information.  
*.channel\_count* double The number of whole channels.  
*.channel* structure array The detail information of channels. ('index 1' corresponds to 'channel 0')  
*.type* double Channel type as follow table:

NullChannel	= 0;
MagnetoMeter	= 1;
AxialGradioMeter	= 2;
PlanarGradioMeter	= 3;
ReferenceMagnetoMeter	= 257;
ReferenceAxialGradioMeter	= 258;
ReferencePlanarGradioMeter	= 259;
TriggerChannel	= -1;
EegChannel	= -2;
EcgChannel	= -3;
EtcChannel	= -4;

*.data* structure The geometrical information of a channel.  
 These fields is based on MEG device coordinate system.  
 These fields of each channel type are as follows:  
 See Figure.1 and Figure.2.

If channel type is AxialGradioMeter or ReferenceAxialGradioMeter (see Figure.3),

<i>.x</i>	double	x coordinate of inner coil position [meter]
<i>.y</i>	double	y coordinate of inner coil position [meter]
<i>.z</i>	double	z coordinate of inner coil position [meter]
<i>.zdir</i>	double	Sensor orientation from z-axis [degree]
<i>.xdir</i>	double	Sensor orientation from x-axis [degree]
<i>.baseline</i>	double	Baseline length [meter]
<i>.size</i>	double	Inner coil size [meter]
<i>.name</i>	string	Abbreviation name

If channel type is PlanarGradioMeter or ReferencePlanarGradioMeter (see Figure 4),

<i>.x</i>	double	x coordinate of inner coil position [meter]
<i>.y</i>	double	y coordinate of inner coil position [meter]
<i>.z</i>	double	z coordinate of inner coil position [meter]
<i>.zdir1</i>	double	Sensor orientation from z-axis [degree]
<i>.xdir1</i>	double	Sensor orientation from x-axis [degree]
<i>.zdir2</i>	double	Baseline orientation from z-axis [degree]
<i>.xdir2</i>	double	Baseline orientation from x-axis [degree]
<i>.baseline</i>	double	Baseline length [meter]
<i>.size</i>	double	Inner coil size [meter]

If channel type is MagnetoMeter or ReferenceMagnetoMeter,

<i>.x</i>	double	x coordinate of coil position [meter]
<i>.y</i>	double	y coordinate of coil position [meter]
<i>.z</i>	double	z coordinate of coil position [meter]
<i>.zdir</i>	double	Sensor orientation from z-axis [degree]
<i>.xdir</i>	double	Sensor orientation from x-axis [degree]
<i>.size</i>	double	Inner coil size [meter]
<i>.name</i>	string	Abbreviation name

If channel type is EegChannel or EcgChannel,

<i>.type</i>	double	Type (0: Analog input, 1: Nihon-Kohden EEG)
<i>.id</i>	double	ID
<i>.name</i>	string	Abbreviation name
<i>.gain</i>	double	Gain (This field exists if type=0)

If channel type is TriggerChannel or EtcChannel,

<i>.type</i>	double	Type
<i>.id</i>	double	ID
<i>.name</i>	string	Abbreviation name

If channel type is NullChannel, there is no field.

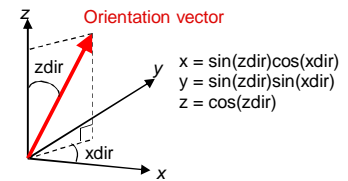


Figure.1 Orientation vector

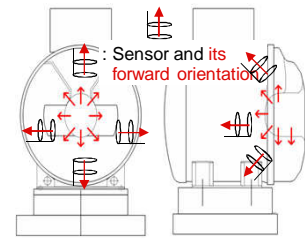


Figure.2 Sensor orientation in the dewar

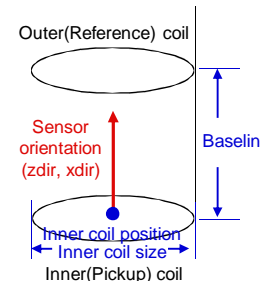


Figure.3 AxialGradioMeter parameter

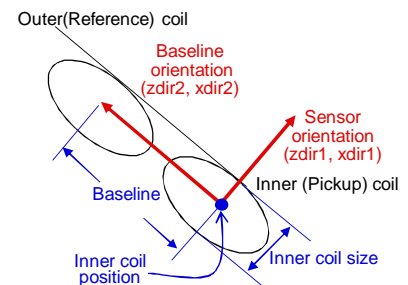


Figure.4 PlanarGradioMeter parameter

## getYkgwHdrAcqCond

This function retrieves information about data acquisition condition.

```
acq_cond = getYkgwHdrAcqCond(filepath);
```

### Arguments:

*filepath* string [in] File path

### Return values:

*acq\_cond* structure [out] The structure of information about data acquisition condition.  
*.acq\_type* double Acquisition type

AcqTypeContinuousRaw = 1;  
AcqTypeEvokedAve = 2;  
AcqTypeEvokedRaw = 3;

If acquisition type is AcqTypeContinuousRaw,

*.sample\_rate* double Sampling rate [Hz]  
*.sample\_count* double The number of samples which were actually acquired [sample]  
*.specified\_sample\_count* double The number of samples which were specified before starting acquisition [sample]

If acquisition type is AcqTypeEvokedAve or AcqTypeEvokedRaw,

*.sample\_rate* double Sampling rate [Hz]  
*.frame\_length* double Frame length (The number of samples per one trial) [sample]  
*.pretrigger\_length* double Pretrigger length (The number of samples before trigger per one trial) [sample]  
*.average\_count* double The number of trials(frames) which were actually acquired [trial]  
*.specified\_average\_count* double The number of trials(frames) which were specified before starting acquisition [trials]  
*.multi\_trigger* structure The structure of multi trigger information.  
*.enable* boolean Is multi trigger mode ? (true : multi trigger mode)  
*.count* double Number of multi triggers  
*.list* structure array List of multi triggers (If not multi trigger mode, this structure array is set to empty.)  
*.enable* boolean Is current multi trigger set to enable ? (true : enable)  
*.code* double Event code (1 origin)  
*.name* string Event name  
*.average\_count* double The number of trials(frames) which were actually acquired [trial]  
*.specified\_average\_count* double The number of trials(frames) which were specified before starting acquisition [trials]

## getYkgwHdrEvent

This function retrieves information about trigger event.

```
event = getYkgwHdrEvent(filepath);
```

### Arguments:

*filepath* string [in] File path

### Return values:

*event* structure array [out] The structure array of trigger event corresponding to each trial.  
*.sample\_no* double Sample number of current event (0 origin)  
*.code* double Event code (1 origin)  
*.name* string Event name

## getYkgwHdrCoregist

This function retrieves information about coregistration.

```
coregist = getYkgwHdrCoregist(filepath);
```

### Arguments:

*filepath* string [in] File path

### Return values:

<i>coregist</i>	structure	[out] The structure of information about coregistration.
<i>.done</i>	boolean	Is coregistration done ? (true : done)
<i>.mri_type</i>	double	MRI type NoMriFile = 0; NormalMriFile = 1; VirtualMriFile = 2;
<i>.mri_file</i>	string	File path of MRI file (*.mri)
<i>.hpi_file</i>	string	File path of HPI(Head Position Indicator) file (*.mrk)
<i>.meg2mri</i>	matrix(double)	4 x 4 matrix which transforms MEG device coordinate to MRI coordinate [meter] usage: $[xmri, ymri, zmri, 1]' = coregist.meg2mri * [xmeg, ymeg, zmeg, 1]'$
<i>.mri2meg</i>	matrix(double)	4 x 4 matrix which transforms MRI coordinate to MEG device coordinate [meter] usage: $[xmeg, ymeg, zmeg, 1]' = coregist.meg2mri * [xmri, ymri, zmri, 1]'$
<i>.hpi</i>	structure array	The structure array of HPI(Head Position Indicator)
<i>.meg_pos</i>	matrix(double)	HPI position $[x, y, z]$ on MEG device coordinate [meter]
<i>.mri_pos</i>	matrix(double)	HPI position $[x, y, z]$ on MRI coordinate [meter] (Before coregistration, this field is set to $[0,0,0]$ )
<i>.label</i>	string	HPI label as follows: 'LPA' : Left PreAuricular 'RPA' : Right PreAuricular 'CPF' : Center PreFrontal 'LPF' : Left PreFrontal 'RPF' : Right PreFrontal
<i>.model</i>	structure	The structure of conductor model.
<i>.type</i>	double	Conductor model type UNKNOWN_MODEL = -1; NO_MODEL = 0; SPHERICAL_MODEL = 1; LAYERED_MODEL = 2;

If Conductor model type is SPHERICAL\_MODEL,

<i>.cx</i>	double	x coordinate of spherical center position on MRI coordinate [meter]
<i>.cy</i>	double	y coordinate of spherical center position on MRI coordinate [meter]
<i>.cz</i>	double	z coordinate of spherical center position on MRI coordinate [meter]
<i>.radius</i>	double	radius of spherical conductor on MRI coordinate [meter]

If Conductor model type is LAYERED\_MODEL,

<i>.ax</i>	double	Coefficient 'ax' of planar equation $'ax * x + ay * y + az * z = c'$
<i>.ay</i>	double	Coefficient 'ay' of planar equation $'ax * x + ay * y + az * z = c'$
<i>.az</i>	double	Coefficient 'az' of planar equation $'ax * x + ay * y + az * z = c'$
<i>.c</i>	double	Coefficient 'c' of planar equation $'ax * x + ay * y + az * z = c'$

## getYkgwHdrDigitize

This function retrieves information of the digitization.

```
digitize = getYkgwHdrDigitize(filepath);
```

### Arguments:

*filepath* string [in] File path

### Return values:

<i>digitize</i>	structure	[out] The structure of information and points about digitization.
<i>.info</i>	structure	The structure of information about digitization.
<i>.digitizer_file</i>	string	File path of digitizer file
<i>.done</i>	boolean	Is matching done? (true : done)
<i>.meg2digitizer</i>	matrix(double)	4 x 4 matrix which transforms MEG coordinate to Digitizer coordinate.
<i>.digitizer2meg</i>	matrix(double)	4 x 4 matrix which transforms Digitizer coordinate to MEG coordinate.
<i>.point</i>	structure array	The structure of point data about digitization.
<i>.name</i>	string	Point name
<i>.x</i>	double	x-coordinate on digitizer coordinate [meter]
<i>.y</i>	double	y-coordinate on digitizer coordinate [meter]
<i>.z</i>	double	z-coordinate on digitizer coordinate [meter]

### getYkgwHdrSubject

This function retrieves information of the subject.

```
subject = getYkgwHdrSubject(filepath);
```

#### Arguments:

filepath	string	[in] File path
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#### Return values:

subject		[out] The structure of subject information.
.id	string	ID
.name	string	Name
.birthday	string	Birthday
.sex	string	Sex
.handed	string	Handed

### getYkgwHdrBookmark

This function retrieves information about bookmark.

```
bookmark = getYkgwHdrBookmark(filepath);
```

#### Arguments:

filepath	string	[in] File path
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#### Return values:

bookmark	structure array	[out] The structure array of bookmark information.
.sample_no	double	Sample number of bookmark
.label	double	Label of bookmark
.comment	string	Comment of bookmark

### getYkgwHdrSource

This function retrieves information of the sources.

```
source = getYkgwHdrSource(filepath);
```

#### Arguments:

filepath	string	[in] File path
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#### Return values:

source	structure array	[out] The structure array of analyzed source information. Note : Sources are arranged in order of estimated time.
.type	double	Type of source DipoleModel = 1; DistributedSourceModel = 2;
.time	double	Analyzed Time [second] from 1970.1.1
.sample_no	double	Time sample index of source
.channel_list	row vector(double)	Channel number (0 origin) list which used to estimate
.model	structure	The structure of conductor model.
.type	double	Conductor model type UNKNOWN_MODEL = -1; NO_MODEL = 0; SPHERICAL_MODEL = 1; LAYERED_MODEL = 2;

If Conductor model type is SPHERICAL\_MODEL,

.cx	double	x coordinate of spherical center position on MEG coordinate [meter]
.cy	double	y coordinate of spherical center position on MEG coordinate [meter]
.cz	double	z coordinate of spherical center position on MEG coordinate [meter]
.radius	double	radius of spherical conductor on MEG coordinate [meter]

If Conductor model type is LAYERED\_MODEL,

.ax	double	Coefficient 'ax' of planar equation 'ax * x + ay * y + az * z = c'
.ay	double	Coefficient 'ay' of planar equation 'ax * x + ay * y + az * z = c'
.az	double	Coefficient 'az' of planar equation 'ax * x + ay * y + az * z = c'
.c	double	Coefficient 'c' of planar equation 'ax * x + ay * y + az * z = c'

.algorithm	structure	The structure of conductor algorithm.
.magnetic_field_calc	double	Algorithm of magnetic field calculation BiotSavartLaw = 1; SarvasLaw = 2; MagneticDipoleLaw = 3;
.variable_restraint	double	Algorithm of variable restraint NoRestraint = 0; PositionRestraint = 1; DirectionRestraint = 2; IntensityRestraint = 3;
.optimization	double	Algorithm of optimization GradientAlgorithm = 1; LeadFieldReconstructionAlgorithm = 2; ManualSetAlgorithm = 3; UserAlgorithm = 4;
.filter	structure	The structure of spectral filter setting.
.hpf, .lpf	structure	The structure of high-pass / low-pass filter setting.
.enable	boolean	Does this filter enable?
.cutoff_frequency	double	Cutoff frequency [Hz]
.window_type	double	Window type NoWindow = 0; HanningWindow = 1; HammingWindow = 2;
.width	double	Filter width
.bpf, .bef	structure	The structure of band-pass / band-eliminate filter setting.
.enable	boolean	Does this filter enable?
.low_frequency	double	Low frequency [Hz]
.high_frequency	double	High frequency [Hz]
.window_type	double	Window type
.width	double	Filter width
.moveave	structure	The structure of moving average setting.
.enable	boolean	Does this filter enable?
.width	double	Filter width
.baseadj	structure	The structure of baseline adjustment setting.
.enable	boolean	Does this filter enable?
.type	double	Type of baseline adjustment PretriggerBaselineAdjust = 0; PosttriggerBaselineAdjust = 1; AllRangeBaselineAdjust = 2; ExplicitBaselineAdjust = 3;
.start_time	double	Start time [millisecond]
.end_time	double	End time [millisecond]
.gof	double	Goodness-of-fit (GOF)
.correlation	double	Correlation Coefficiency
.label	double	Label
.comment	string	Comment
.total_intensity	double	Total intensity of sources
.dipole_count	double	Number of dipole sources
.dipole_list	structure array	The structure array of dipole sources
.x	double	x coordinate of dipole position on MEG coordinate [meter]
.y	double	y coordinate of dipole position on MEG coordinate [meter]
.z	double	z coordinate of dipole position on MEG coordinate [meter]
.zdir	double	Dipole orientation from z-axis [degree]
.xdir	double	Dipole orientation from z-axis [degree]
.intensity	double	Dipole intensity (moment) [Ampere Meter]

## getYkgwMriHdr

This function retrieves header information of specified mri file (\*.mri).

```
mri_header = getYkgwMriHdr(
    filepath
);
```

### Arguments:

*filepath* string [in] File path

### Return values:

*mri\_header* structure [out] The structure of mri header information.  
*.data\_style* double Data style (0 : DICOM, others : Polhemus)  
*.model* structure The structure of conductor model.  
*.done* boolean Is conductor model defined ? ( true : defined )  
*.type* double Conductor model type  
 UNKNOWN\_MODEL = -1;  
 NO\_MODEL = 0;  
 SPHERICAL\_MODEL = 1;  
 LAYERED\_MODEL = 2;

If Conductor model type is SPHERICAL\_MODEL,

*.cx* double x coordinate of spherical center position on MRI coordinate [meter]  
*.cy* double y coordinate of spherical center position on MRI coordinate [meter]  
*.cz* double z coordinate of spherical center position on MRI coordinate [meter]  
*.radius* double radius of spherical conductor on MRI coordinate [meter]

If Conductor model type is LAYERED\_MODEL,

*.ax* double Coefficient 'ax' of planar equation ' $ax * x + ay * y + az * z = c$ '  
*.ay* double Coefficient 'ay' of planar equation ' $ax * x + ay * y + az * z = c$ '  
*.az* double Coefficient 'az' of planar equation ' $ax * x + ay * y + az * z = c$ '  
*.c* double Coefficient 'c' of planar equation ' $ax * x + ay * y + az * z = c$ '

*.hpi* structure array The structure of point data about picked HPI.  
*.done* boolean Is pick-up of a HPI point done ? (true : done)  
*.mri\_pos* double HPI position [x, y, z] on MRI coordinate [meter]  
*.label* string HPI label as follows:  
 'LPA' : Left PreAuricular  
 'RPA' : Right PreAuricular  
 'CPF' : Center PreFrontal  
 'LPF' : Left PreFrontal  
 'RPF' : Right PreFrontal

*.image\_parameter* structure The structure of image parameters.  
*.intensity* vector(double) 1 x 2 row vector, minimum and maximum of image values  
*.initial\_color* vector(double) 1 x 2 row vector, minimum and maximum of initial brightness  
*.color* vector(double) 1 x 2 row vector, minimum and maximum of current brightness

*.normalize* structure The structure of normalized HEAD coordinate system ( LPA(x-), RPA(x+), nasion(y+) ). See Figure.5.  
*.done* boolean Is HEAD coordinate system defined ? ( true : defined )  
*.mri2normalize* matrix(double) 4 x 4 matrix which transforms MRI coordinate to HEAD coordinate [meter]  
 usage:  $[x_{head}, y_{head}, z_{head}, 1]' = mri\_header.normalize.mri2normalize * [xmri, ymri, zmri, 1]'$

*.point* structure array The structure of point data about HEAD fiducial points.  
*.done* boolean Is pick-up of a HEAD fiducial point done ? (true : done)  
*.name* string Name of HEAD fiducial points.  
*.x* double x coordinate of a HEAD fiducial point on MRI coordinate [meter]  
*.y* double y coordinate of a HEAD fiducial point on MRI coordinate [meter]  
*.z* double z coordinate of a HEAD fiducial point on MRI coordinate [meter]

*.besa\_fiducial* structure The structure of BESA fiducial information.  
*.point* structure array The structure of point data about BESA fiducial points.  
*.done* boolean Is pick-up of a BESA fiducial point done ? (true : done)  
*.x* double x coordinate of a BESA fiducial point on MRI coordinate [meter]  
*.y* double y coordinate of a BESA fiducial point on MRI coordinate [meter]  
*.z* double z coordinate of a BESA fiducial point on MRI coordinate [meter]

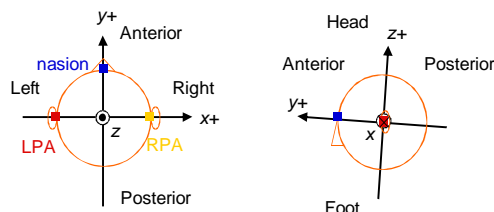


Figure.5 Normalized HEAD coordinate system



## getYkgwVersion

This function retrieves version of this toolbox.

```
ykgw_ver = getYkgwVersion;
```

### Arguments:

none

### Return values:

<i>ykgw_ver</i>		[out] structure of toolbox version
<i>.version</i>	string	toolbox version : major.minor
<i>.major</i>	double	toolbox major version
<i>.minor</i>	double	toolbox minor version
<i>.revision</i>	double	toolbox revision version
<i>.build</i>	double	toolbox build version
<i>.date</i>	string	release date yyyy.mm.dd

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