

1. HTTP Streaming

Data captured by MR recorder can be streamed live by means of TCP-IP connection. MR software setup can enable HTTP streaming and select the host port. If enabled, Once recorder activates the hardware, it creates an HTTP server responding with JSON-formatted payload to these HTTP GET requests:

GET /headers

Lists all channels available for streaming with their information.

```
{ "headers": [  
  { "name": "Pelvis", "id": "human.pelvis", "index": 0, "type": "vector3.rot", "device": "MyoMotion", "units": "",  
    { "name": "Pelvis Position", "id": "human.pelvis.pos", "index": 1, "type": "vector3.pos", "device": "MyoMotion",  
    { "name": "Pelvis Course", "id": "human.pelvis.course", "index": 2, "type": "real.angle", "device": "MyoMotion"  
  ] }
```

Here:

index

logical index of the channel which will be later used to identify which channel a data packet belongs to.

name

channel name

id

non-localized channel id

type

describes the nature of each data quantum, takes one of the following values:

real.angle

each sample is a floating-point angle value in deg

vector3.pos

each sample is a 3-component vector; components of all samples are returned as a single array containing 3*number_of_samples

vector3.rot

each sample is the vector part of the rotation quaternion; components of all samples are returned as a single array containing 3*number_of_samples

vector3.accel

samples with 3-component acceleration

units

measurement units if applicable

sample rate

floating-point number of samples per second for this channel

device

used to identify the device channels belong to

GET /samples

Returns array of newly-arrived data samples, channel-wise.

```
{ "channels": [  
  { "index": 0, "sampleindex": 1875, "samples": [0.001704, -0.003827, -0.0023543 ] },  
  { "index": 1, "sampleindex": 1875, "samples": [1.000000, -2.003827, 7.7699854 ] }  
]
```

Here:

index

channel index for associating the header information

sampleindex

the number of indexes from the beginning of the acquisition and to this actual data block.

samples

array of values, multi-component channels return data in a single array.

GET /disable/n

excludes channel n from streaming. On success, returns an empty JSON structure { }, on error, returns { "error": "invalid channel index specified" }.

GET /disable/all

excludes all channels from streaming, returns empty JSON structure.

GET /enable/n

includes channel n into streaming. On success, returns an empty JSON structure { }, on error, returns { "error": "invalid channel index specified" }.

GET /enable/all

includes all channels into streaming, returns empty JSON structure. By default, all channels are enabled.