jhv.vso.load:

**Arguments**:

timestamp (string)

Date of the currently viewed frame coded in the ISO 8601 format   
(2017-08-28T14:33:28)

start (string)

Starting date of the currently viewed sequence coded in the in the ISO 8601 format   
(2017-08-28T14:33:28)

end (string)

End date of the currently viewed sequence coded in the ISO 8601 format   
(2017-08-28T14:33:28)

cadence (SAMP long)

Number of Milliseconds between each frame

cutout.set (SAMP boolean)

Wether or not only a part of the sun is visible.   
0: The full sun is visible  
1: Only a cutout of the sun is visible

cutout.x0 (SAMP float)

(OPTIONAL) x-Position of the currently viewed part of the sun in arcsec

cutout.y0 (SAMP float)

(OPTIONAL) y-Position of the currently viewed part of the sun in arcsec

cutout.w (SAMP float)

(OPTIONAL) Width of the currently viewed part of the sun in arcsec

cutout.h (SAMP float)

(OPTIONAL) Height of the currently viewed part of the sun in arcsec

layers (list of map)

The different layers currently displayed. The parameters of each layer are stored as a Key-Value Pair with the following Keys:

observatory (string, required)

instrument (string, required)

detector (string, optional)

measurement (string, optional)

timestamp (string, required)

Which Keys are set depends on the selected instrument. The timestamp is the date for the specific frame coded in the ISO 8601 format   
(2017-08-28T14:33:28)

**Return Values:**

None

**Description:**

Broadcasts information about all the currently visible layers in JHelioviewer including the current timestamp of the sun. Other application can then use this information to load the raw data from VSO for example.

jhv.layers.show:

**Arguments**:

date (string)

Requested date of the new layer   
(yyyy-MM-dd)

start (string)

Start time of the requested layer   
(HH:mm:ss)

end (string)

End time of the requested layer   
(HH:mm:ss)

peak (string)

(OPTIONAL) Time the layer should be displayed at the start  
(HH:mm:ss)

xPos (SAMP float)

(OPTIONAL) x-Position in arcsec that should be displayed

yPos (SAMP float)

(OPTIONAL) y-Position in arcsec that should be displayed

observatory (string)

(OPTIONAL) TODO

instrument (string)

(OPTIONAL) TODO

detector (string)

(OPTIONAL) TODO

measurement (string)

(OPTIONAL) TODO

**Return Values:**

None

**Description:**

Tells JHelioviewer to remove all currently visible layers and to display a new layer using the given start and end time with frames each 12 milliseconds.

If no information about the instrument and observatory are given, then the SDO/AIA 171 instrument will be used. For Dates before 2010-06-02, SOHO/EIT 195 will be used instead.