

# INSTALLATION INSTRUCTIONS

for connecting Jurik modules to AmiBroker

1. Make sure you have already licensed and installed the desired Jurik tools in DLL format. To determine which installers you need, read the Installation Section for AmiBroker at <http://www.jurikres.com/catalog/compatib.htm>.
  2. Make sure you have licensed and installed AmiBroker, version 3.8 or later. You can get the latest versions and updates of AmiBroker from <http://www.amibroker.com/bin/>  
The AmiBroker installation file will have the name "**AmiBroker**\_\_\_\_.exe" where "\_\_\_\_" is replaced by a version number, such as 380. The latest version of AmiBroker will have the most recent file date.
  3. Download the plug-in file JRPLUG2.EXE at <http://www.amibroker.com/bin/JRPlug2.exe>.  
Run the file. This will add to AmiBroker the additional software needed to run Jurik tools.
  4. After installation, when you run AmiBroker and choose Tools/Plugins menu you should see "Jurik Research Tools for AmiBroker" entry in the list. Please note that availability of JMA, CFB, VEL, RSX, DMX depends on the license purchased from Jurik Research. If you attempt to use the Jurik tool not licensed for your system, a suitable error message will appear.
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## USER MANUAL for JURIK TOOLS

The plugin offers 8 functions in AFL (AmiBroker Function Language) that could be used in Indicator Builder, Automatic Analysis (for backtesting, optimization, exploration and scans) and Chart Commentary windows. AFL access to these tools are described below.

### JurikCFB

|          |                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------|
| SYNTAX   | JurikCFB( ARRAY, smooth = 8, spansize = 48 )                                                                             |
| RETURNS  | ARRAY                                                                                                                    |
| FUNCTION | Calculates the Jurik's Composite Fractal Behaviour Index<br>Valid spansize values { 24, 48, 96, 192 }                    |
| EXAMPLE  | The following indicator builder formula plots the CFB from Close price:<br><br><b>graph0 = JurikCFB( Close, 8, 48 );</b> |

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## JurikDMX

|          |                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------|
| SYNTAX   | JurikDMX( periods = 20 )                                                                                 |
| RETURNS  | ARRAY                                                                                                    |
| FUNCTION | Calculates Jurik's bipolar directional movement index                                                    |
| EXAMPLE  | The following indicator builder formula plots DMX with length 14:<br><br><b>graph0 = JurikDMX( 14 );</b> |

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## JurikCFB

|          |                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------|
| SYNTAX   | JurikDMXPlus( periods = 20 )                                                                                 |
| RETURNS  | ARRAY                                                                                                        |
| FUNCTION | Calculates DM+ component of Jurik's bipolar directional movement index                                       |
| EXAMPLE  | The following indicator builder formula plots DM+ with length 14:<br><br><b>graph0 = JurikDMXPlus( 14 );</b> |

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## JurikCFB

|          |                                                                                                               |
|----------|---------------------------------------------------------------------------------------------------------------|
| SYNTAX   | JurikDMXMinus( periods = 20 )                                                                                 |
| RETURNS  | ARRAY                                                                                                         |
| FUNCTION | Calculates DM- component of Jurik's bipolar directional movement index                                        |
| EXAMPLE  | The following indicator builder formula plots DM- with length 14:<br><br><b>graph0 = JurikDMXMinus( 14 );</b> |

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## JurikJMA

SYNTAX      JurikJMA( ARRAY, speed = 10, phase = 0)

RETURNS     ARRAY

FUNCTION    Calculates the Jurik's Moving Average  
Valid range for phase is from -100 to +100  
Valid range for speed is any number greater than 1.

EXAMPLE     The following formula plots a candlestick chart along with JMA:

```
graph0 = Close; graph0style = 64;  
graph1 = JurikJMA( Close, 7, 50);
```

The following formula plots a MACD based on JMA:

```
graph0 = JurikJMA(Close, 7, 50) - JurikJMA(Close, 35, 0);
```

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## JurikJMAV

SYNTAX      JurikJMAV( ARRAY, speedArray, phaseArray)

RETURNS     ARRAY

FUNCTION    Calculates the Jurik's Moving Average, permitting both speed and phase to be uniquely specified for each bar in the time series. Speed and phase values are located in the speedArray and phaseArray respectively or as formulas.  
\* Valid range for each phase value is from -100 to +100  
\* Valid range for each speed value is any number greater than 1.

EXAMPLE     The following formula plots a candlestick chart along with JMA:

```
graph0 = Close; graph0style = 64;  
graph1 = JurikJMAV( Close, 30+ADX()/5, 0);
```

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## JurikRSX

|          |                                                                                                             |
|----------|-------------------------------------------------------------------------------------------------------------|
| SYNTAX   | JurikRSX( ARRAY, length = 30 )                                                                              |
| RETURNS  | ARRAY                                                                                                       |
| FUNCTION | Calculates the Jurik's RSX (Relative Trend Strength)<br>Valid range of length is any number greater than 2. |
| EXAMPLE  | The following formula compares the standard RSI(14) indicator (red line) and Jurik's RSX(14)                |

```
graph0 = RSI( 14 );  
graph1 = JurikRSX( Close, 14 );
```

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## JurikVEL

|          |                                                                                                                |
|----------|----------------------------------------------------------------------------------------------------------------|
| SYNTAX   | JurikVEL( ARRAY, depth = 10 )                                                                                  |
| RETURNS  | ARRAY                                                                                                          |
| FUNCTION | Calculates the Jurik's VEL (Zero-Lag Velocity)<br>Valid values for depth is any <u>integer</u> greater than 1. |
| EXAMPLE  | The following indicator builder formula plots the VEL indicator:                                               |

```
graph0 = JurikVEL( Close, 14 );
```

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## NOTES

For in-depth discussion on features and performance of Jurik Research tools please consult original documentation provided by Jurik Research.

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