

## Introduction

This document explains in detail the configuration options of TheHarmonicIndi ... *the harmonic indicator*.

TheHarmonicIndi is a MetaTrader indicator designed to improve accuracy and greatly reduce time when drawing harmonic patterns. It is a highly customisable indicator, not only as regards the information displayed on the chart but how the harmonic patterns themselves are defined, using an Excel CSV file, where up to 100 different patterns can be defined and completely customised.

A considerable amount of time has gone into creating TheHarmonicIndi; to make what we hope will be the harmonic trader's tool of choice. We hope you enjoy using it and welcome any feedback and suggestions for improvement.

### Important notes about the indicator

- The indicator uses various Fibonacci tools to display information and might set your defaults for Fibonacci Retracement, Fibonacci Expansion and Fibonacci Time Zones to something other than what you prefer. It is suggested that you create a chart with all of these Fib' tools loaded and save as a template, so you can easily restore your preferred settings, should you need to.
- When changing colours, either in the options or the CSV file, please refer to: <http://docs.mql4.com/constants/objectconstants/webcolors>

## TheHarmonicIndi configuration parameters

The following section lists and explains the configuration options/parameters TheHarmonicIndi indicator offers.

Field	Default	Function
Max_Tolerance_Factor	0	Tolerance Factor (percent) extends max/min range for leg Fibonacci ratios drawn from the CSV file. The defaults should suffice for the patterns as defined in the supplied CSV file. For example: a setting of 5 will incrementally add/subtract 1% to/from the CSV values, in a loop up to 5%, in searching for a pattern. The value of the tolerance used, if a pattern has been found, will be displayed when the DATA button is pressed. The lines between points, that show percentage retrace/extension values, will show in brackets what the CSV defined values are; allowing the user to then adjust points to fit the exact criteria for the pattern, i.e. at zero tolerance.
Delete_On_Deinit	false	Set this to true if all objects created by TheHarmonicIndi should be deleted when removing the indicator from the chart or switching timeframes (note: patterns copied using the 'freeze button' will remain) (Pressing CLEAR before removing the indicator from the chart will also delete any objects.)
Default_to_Control	false	Sets the ASSIST/CONTROL button to CONTROL if 'true' selected or ASSIST if 'false' selected. See notes on Buttons for more info.
File_Name	HarmonicData.csv	The CSV file name where the patterns are defined. This CSV should be located in the MT4 Files directory as Two versions of the CSV have been supplied: the default one has widened ranges for the leg ratios; the 'strict' one has exact pattern definitions for which the 'tolerance' option might be required (it's pretty hard to get an exact 61.8% retracement, for example).
<b>Display Options</b>		
Show_Pattern_Name	true	When set to 'true' always show the pattern name; when 'false' only show when DATA button pressed
Show_LegLines	false	Displays lines for each pattern's leg
Show_Triangles	true	Displays filled-in triangles for the harmonic pattern
Fill_4Point_Patterns	true	Option to fill the triangles for patterns that don't use the X point, such as AB=CD.

Colour Options		
BeLineCol	Red	Colour of bearish leg lines (if shown)
BuLineCol	LimeGreen	Colour of bullish leg lines (if shown)
X_D_TextCol	Orange	Colours of the XABCD letters that are used to define the patterns on the chart
Fib_Retrace_Col_Dn	Red	Colour of Fibonacci retrace levels of a bearish leg
Fib_Retrace_Col_Up	LimeGreen	Colour of Fibonacci retrace levels of a bullish leg
Null_Pattern_Col	PowderBlue	Colour of filled triangles when no recognised pattern (from the CSV file) is found
TPs_Defaults_Col	Purple	Colour of Default Target Price lines (based on EW pattern type)
TPs_Custom_Col	Blue	Colour of Custom Target Price lines (based on CSV pattern type)
SL_Col	Red	Colour of Stop Loss Line
PRZ_Box_Col	Orange	Potential Reversal Zone box colour
PRZ_XA_Ret_Col	Gold	Potential Reversal Zone line colour
PRZ_BC_Ret_Col	Green	Potential Reversal Zone line colour
PRZ_BA_A_APP_Col	Blue	Potential Reversal Zone line colour
PRZ_BA_C_APP_Col	Indigo	Potential Reversal Zone line colour
PRZ_XA_C_APP_Col	Violet	Potential Reversal Zone line colour
ABCD_Lines_Col	DeepPink	AB=CD price and time line colours

Button Options		
Buttons_LeftRightPos	10	Indent from left of chart for button display
Buttons_UpDownPos	30	Up/Down start position of the buttons
Button_Height	18	Height of the button
Button_Width	60	Width of button
Button_Font	Arial	Font name of the button text
Button_Font_Fize	9	Font size of the button text
Button_Text_Col	Black	Colour of the button text
Button_Back_Col	236,233,216	Colour of button background
Button_Border_Col	None	Colour of button border
Button_Press_Text_Col	White	Colour of button text when pressed
Button_Press_Back_Col	Blue	Colour of the button background when pressed
Pattern Data Options		
LeftRightPos	140	Indent from left of chart for display of data
UpDownPos	35	Up/Down start position of data
X_D_FontSize	14	Font size of data
X_D_FontName	Arial	Font type of data
Show_Pattern_Type	true	Display the pattern type (Elliott Wave terminology)
Show_CSV_Comment	true	Display the comments as defined in the CSF file
Show_PRZ_Descriptions	true	Display the data about each of the PRZ lines
Other Options		
LineWidth	3	Thickness of Leg Lines, if shown
Trend_Ray	false	Extend Leg Lines to infinity
Harmonic_FontSize	14	Font size for harmonic name, if shown
Harmonic_FontName	Arial	Font type for harmonic name, if shown
HarmonicVal_FontSize	10	Font size for data displays, if shown
Show_PRZBox_LongLines	false	Displays a full-length horizontal line for the PRZ Box levels, when DATA button pressed
Show_PRZBox_ShortLines	true	Displays a short line (back to C) with price label, for PRZ Box levels, when DATA button pressed
PRZBox_Lines_Style	1 (dash)	Style of line for PRZ Box levels
Use_Default_TPs	false	Show the default (EW) Target Prices when TP/SL Button pressed
Use_Custom_TPs	true	Show the custom (CSV) Target Prices when TP/SL Button pressed
TP_Style	0 (solid)	Line style for target price, if shown
Freeze_Fill	false	Draw filled triangles for 'freeze' patterns
Freeze_LineWidth	3	Line width for 'freeze' patterns

Screen Shot Options		
Set_Height_and_Width	A note advising that leaving SS Width and Height set to zero will use default size	
ScreenShot_Folder	"TheHarmonicIndi"	Folder name where pictures will be stored (within MetaTrader MQL4\Files folder)
SS_Width	0	Pixel width of picture
SS_Height	0	Pixel height of picture
Fibonacci Options		
Fib_Time_Line_Style	2 (dotted)	Line style for fib time levels (AB=CD)
Fib_Retrace_Style	2 (dotted)	Line style for fib levels
Fib_Ray	false	Extend lines to infinity for fib level
Fib_LengthPercent	80	If 'ray' option not selected, how far between one point and another should fib lines be drawn, e.g. 80% of the distance between A and B points
Fib_Text	false	Show fib levels for each fib line
Various fib levels can be defined to suit		