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## Instruction (Manual) Document

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Trading Platform version	Version 4.00 (1010) and Version 5(1455)
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# Introduction to Advanced Price Pattern Scanner

## Advanced Price Pattern Scanner Overview

Some of our customers are already familiar with our Price Breakout Pattern Scanner because it was released nearly several years ago. The idea behind the Price Breakout Pattern Scanner is to detect tradable patterns automatically. Trader used to draw patterns in their chart manually. Manual drawing is always painful and less accurate. We found that many traders love the automation built inside Price Breakout Pattern Scanner. With other additional features like Smart Renko and candlestick pattern detection, the tool is even more powerful for your trading. The idea behind our Advanced Price Pattern Scanner is the same as our Price Breakout Pattern scanner. After the lengthy research, we wanted to offer more freedom in pattern detection for your trading because some traders might prefer those variations in pattern detection. Therefore, you can consider that Advanced Price Pattern Scanner is an advanced version of our Price Breakout Pattern Scanner. So let us walk through some of the technical feature of our Advanced Price Breakout Pattern Scanner here.

## Pattern Detection Mode

Simply speaking, Advanced Price Pattern Scanner is a tool to detect the following patterns. This is the main feature.

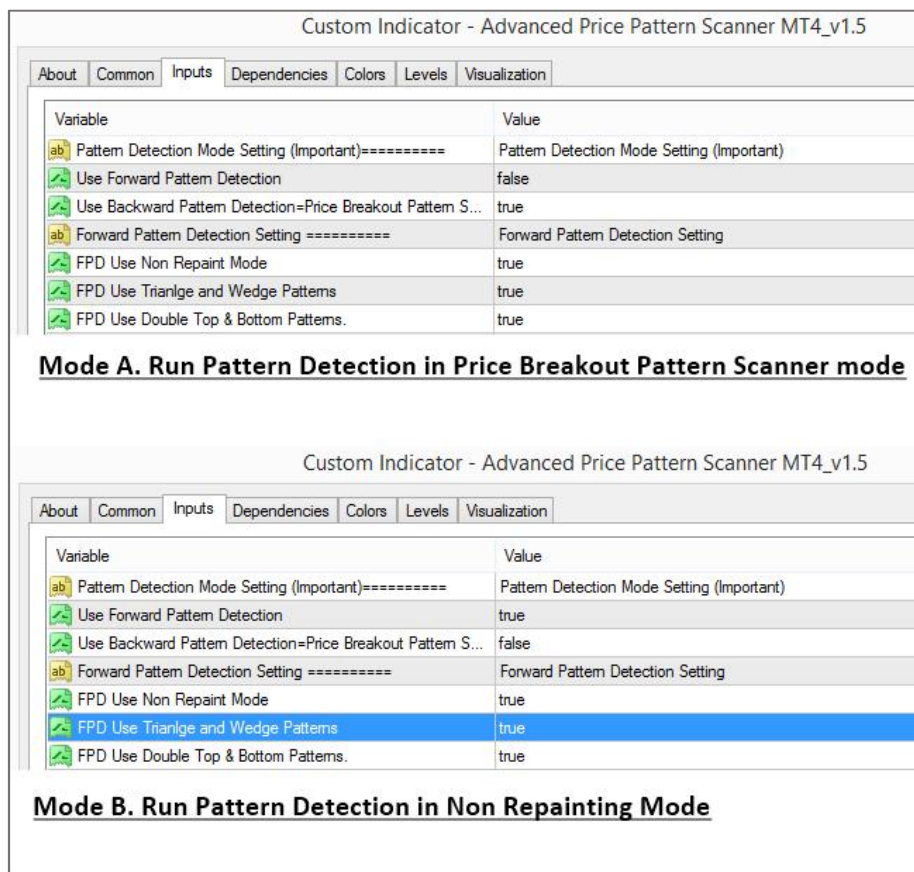
- Symmetric Triangle
- Rising Wedge
- Falling Wedge
- Triple bottom and Triple Top

- Double bottom and double top
- Head and shoulder pattern and reverse head and shoulder pattern

Besides detecting patterns, Advanced Price Pattern Scanner has some additional features.

- Built in Smart Renko
- Candle stick pattern detection
- Round number detection

You can tell that Advanced Price Pattern Scanner offers rich features for your trading. Its most important operational characteristic is that it can run several different mode for the automatic pattern detection tasks. In the screenshot below, we have shown two-pattern detection mode for an example. As we have mentioned before, Mode A runs Advanced Price Pattern Scanner in Price Breakout Pattern Scanner mode. When you run Advanced Price Pattern Scanner in Price Breakout Pattern Scanner mode, you have an access to full feature of Price Breakout Pattern Scanner. This means that you can switch on and off each patterns from the list. You can use the built in Smart Renko and Round number detection too. When you run Advanced Price Pattern Scanner in Mode B, it will detect patterns in non-repainting mode. In Mode B, you can backtest the patterns. However, remember that non-repainting mode is slow and lagging comparing to Price Breakout Pattern Scanner mode. Such lagging is inevitable because it is non-repainting because it waits until the patterns are confirmed after several candlesticks. Such a drawback is universal for any non-repainting indicator. The thing is that the pattern scanner offers you the choice between Price Breakout Pattern Scanner mode and non-repainting mode. In addition, you should remember that Price Breakout Pattern Scanner offers pattern locking and unlocking feature. With pattern locking and unlocking feature, you can lock the detected pattern in your chart for your trading. The locked pattern will not go away until you close your chart. Therefore, you can control the repainting issue pretty much with Price Breakout Pattern Scanner too. User of Advanced Price Pattern Scanner should note that user could run it in the combined mode between Price Breakout Pattern Scanner (Mode A) and non-repainting mode (Mode B). The choice is entirely up to you.



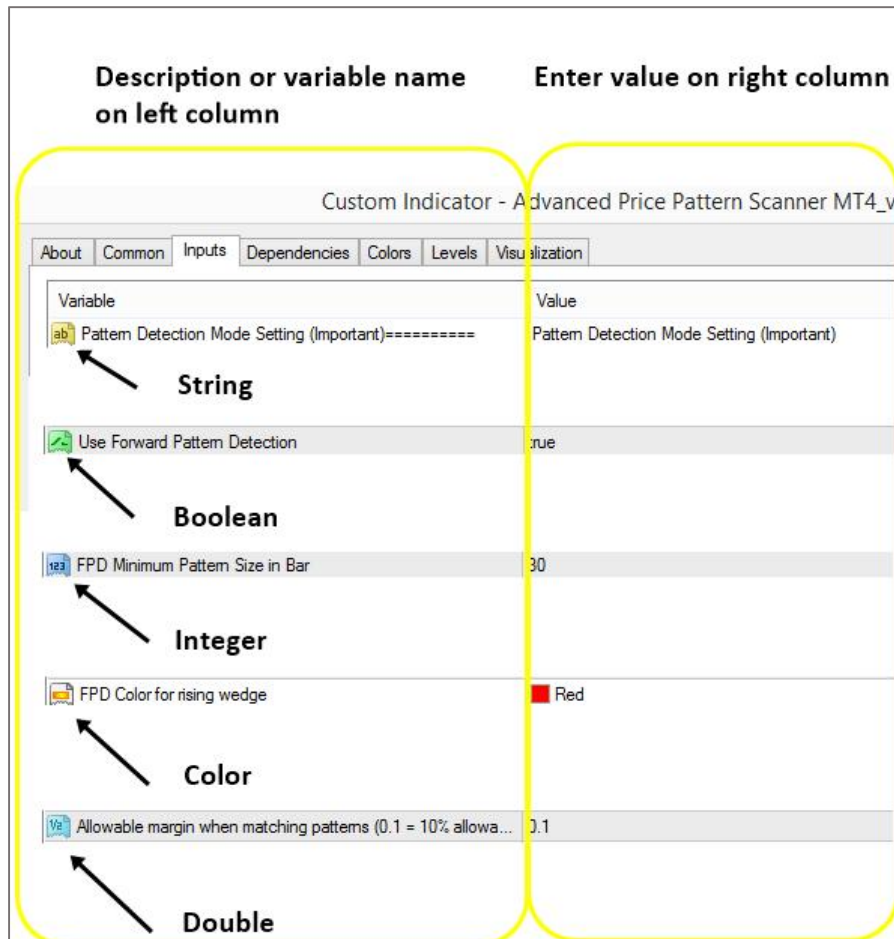
## How to control the detected patterns

After you have chosen the patterns detection mode, you can always control many features related to the detected pattern at your preference. To control each feature, you need to become familiar with inputs setting of MetaTrader. The input controls are listed from top to bottom in different segments for different functionality. With input control, you can switch on and off some features. In addition, input control can help you to set your own preferred value for some features too. Each input box can be assigned with some specific value types. For example, there are five values types including:

- Boolean – true or false
- String – text value like “I am john”
- Integer – any integer value like 1, 2, 3
- Double – any decimal number like 0.12
- Color – color for line and shape, etc

To know which input is for which value type, simply look for small icon on the left side in your input setting. You have to put the right values according to their value type. For example, do not enter “10”

to Boolean value type. You will get an error doing that. Since the inputs are modified and added, we prefer to give some intuitive short description or variable name in the left column of inputs setting page.



Please note that the position and location of these inputs controls can be changed sometimes. For example, when we add new features to our products, the location of inputs can be shifted. In Advanced Price Pattern Scanner, you have the full controls for both Price Breakout Pattern Scanner Mode (Mode A) and non-repainting mode (Mode B). This screenshot below shows the location of input controls.

Custom Indicator - Advanced Price Pattern Scanner MT4\_v

About Common **Inputs** Dependencies Colors Levels Visualization

Variable	Value
ab) Pattern Detection Mode Setting (Important)=====	Pattern Detection Mode Setting (Important)
Use Forward Pattern Detection	true
Use Backward Pattern Detection=Price Breakout Pattern S...	true
ab) Forward Pattern Detection Setting =====	Forward Pattern Detection Setting
FPD Use Non Repaint Mode	true
FPD Use Triangle and Wedge Patterns	true
FPD Use Double Top & Bottom Patterns.	true
123 FPD Minimum Pattern Size in Bar	30
FPD Color for rising wedge	Red
FPD Color for falling wedge	Green
FPD Color for Triangle	Chocolate
FPD Color for double top	Red
FPD Color for double bottom	Green
FPD Fill inside pattern	false
123 FPD OutLine width for pattern	3
123 FPD Search Depth Small Pattern: 2 to 20 only	10
123 FPD Search Depth Medium Pattern: 2 to 20 only	10
123 FPD Search Depth Large Pattern: 2 to 20 only	10
FPD Use Sound Alert	true
FPD Use Email Alert	true
FPD Use Push Notification	true
ab) Price Breakout Pattern Parameters 1 ( User Option ) =====	Price Breakout Pattern Parameters 1 (User Option)
123 Timeframe to detect Price Breakout Patterns	current
Display As Support Resistance (true = support resistance, fa...	false
123 Max number of patterns to display	1
123 Pattern Index from which to display	0
Enable sound alert	true
Send email if pattern is found	true
Send notification if pattern is found	true
1/2 Allowable margin when matching patterns (0.1 = 10% allowa...	0.1
Use white background for chart	true

**Controls for Pattern Detection Mode**

**Controls for Forward Detection Mode (Mode B)**

**Controls for Price Breakout Scanner Mode (Mode A) (note there are more controls below)**

## Built in Smart Renko Feature

Both Price Breakout Pattern Scanner and Advanced Price Pattern Scanner can use Smart Renko Feature. The combined usage just makes it so powerful for your trading. Here is the input control for Smart Renko part. To use Smart Renko in your Price Breakout Pattern Scanner or Advanced Price Pattern Scanner, "Use Smart Renko" = true. Remember that our Smart Renko is tuned with round number itself. To best use our Smart Renko, choose the brick height in the fact of 100 or 1000 pips. For example, for EURUSD, 20, 25, 50 and 100 pips are good value to use. Do not use odd brick height like 34, 45, 76, etc. When you use these odd numbers, then your brick height will not be tuned with round number. For some symbols like XAUUSD, you might have to use the brick height in 1000 or 2000 instead of 20 or 50 because their daily movement range is much greater than EURUSD and other currency symbols. In our Smart Renko, you can see the future brick level in advance. Often you can use this future brick level as your potential stop loss or take profit target. Another additional feature of Smart Renko include the custom Zig Zag drawing in your chart. The custom Zig Zag indicator differ from typical zig zag indicator. The custom Zig Zag indicator is derived from Renko brick itself. If you are good users of Zig Zag indicator, then you must give a go with this custom Zig Zag indicator for your trading.



Custom Indicator - Advanced Price Pattern Scanner M1

About Common **Inputs** Dependencies Colors Levels Visualization

Variable	Value
Renko Calculation Setting =====	Renko Calculation Setting
<input checked="" type="checkbox"/> Use Smart Renko	true ←
<input type="checkbox"/> Brick Height Mode (0=pip, 1=standard deviation, z value)	0
<input type="checkbox"/> Brick Height value (pip=5 to any, z value=1.0, 1.68, 1.96, etc)	20.0
<input type="checkbox"/> Bars to scan in current time frame	10000
<input type="checkbox"/> Time Frame used for Standard Deviation Calculation	current
<input type="checkbox"/> Time Frame used for Brick Calculation	5 Minutes
<input type="checkbox"/> Time Frame used to update of Renko chart	1 Minute
<input type="checkbox"/> Price Type for charting	Close
<input checked="" type="checkbox"/> Enable sound alert if brick color changes	true
<input checked="" type="checkbox"/> Send email if brick color changes	true
<input checked="" type="checkbox"/> Send notification if brick color changes	true
Main Brick Chart Setting =====	Main Chart Brick Setting
<input checked="" type="checkbox"/> Draw bricks on Main Chart	false ←
<input type="checkbox"/> Brick color for up movement on main chart	Blue
<input type="checkbox"/> Brick color for down movement on main chart	Red
<input checked="" type="checkbox"/> Fill inside brick on main chart	true
<input type="checkbox"/> Brick line width on main chart	2
<input type="checkbox"/> Brick outline width	2
Next Brick Level Setting =====	Next Brick Level Setting
<input checked="" type="checkbox"/> Indicate Next Brick Price	true ←
<input type="checkbox"/> Next brick line up color	Blue
<input type="checkbox"/> Next brick line down color	Red
<input type="checkbox"/> Next brick line width	1
<input type="checkbox"/> Next brick line length	20
Renko ZigZag Setting =====	Renko ZigZag Setting
<input checked="" type="checkbox"/> Calculate ZigZag	true
<input checked="" type="checkbox"/> Draw ZigZag on Main Chart	false ←
<input type="checkbox"/> ZigZag Width	2
<input type="checkbox"/> ZigZag Colour Up	Blue
<input type="checkbox"/> ZigZag Color Down	Red

**Set this input to true to use Smart Renko**

**This input allow you to draw the Renko brick on your main chart (depending on your preferences switch on and off)**

**Set to true or false to indicate Next brick level in advance**

**If you want to show ZigZag calculated from Renko brick, set this to true. The zig zag is different from typical zig zag indicator.**

Excellent way of trading is to use built in Smart Renko and detected pattern together for your decision-making. As you can see, the Smart Renko is displayed in the indicator window whereas the patterns are detected in the main window by Advanced Price Pattern Scanner. When you do your analysis in Smart Renko, you might draw some trend lines to identify important support and resistance levels. Simply double click over the trend line to copy the trend line in the main window. When the trend line is copied, some discrepancy might occur in terms of trend line location. It is perfectly normal because Renko transformation loses the time information during its transformation. For horizontally short trend line, the copied trend line will be more accurately placed in the main window whereas for horizontally long trend line, the copied trend line can be less accurately placed in the main window

sometimes. However, in general, the copied line will provide you good idea the location of the support and resistance lines drawn in your Renko chart.

