PimpMyEA.com

a blog about automatic trading on MetaTrader 4, Multicharts/Tradestation and JForex

home expert advisors indicators 101 affiliates contact us

Search... Search...

Home OndaFX Users Manual

OndaFX Users Manual

+1 Recommend this on Google Tweet

OndaFX Expert Advisor

The OndaFX EA implements a strategy based on Bollinger Bands: when a breakout occurs above the upper BB or below the lower BB the EA opens a trade in the opposite direction. Additional trades can be opened if the reversal does not occur immediately. The breakout rules (both for the initial entry and for the additional entries) can be quite sophisticated, and that accounts for the profitability of the strategy. Moreover the ATR (Average True Range) indicator is used in order to automatically adjust the EA to current market conditions. The money management of the EA is fully customizable, along with many other aspects of the strategy itself. In other words OndaFX can be a "lab" for understanding how to make the most from Bollinger Bands on different pairs and timeframes. Two very good setups of OndaFX work on the hourly chart of EURUSD and on the hourly chart of AUDUSD.

Installation

The installation process:

1. Copy the "Cerbero.dll" file into the "experts\libraries" folder of your MetaTrader 4 installation.
2. Copy the "OndaFX.ex4" file into the "experts" folder of your MetaTrader 4 installation.
3. Copy the set files into the "experts\presets" folder of your MetaTrader 4 installation.
4. Restart the MetaTrader 4 platform .

How To Apply It

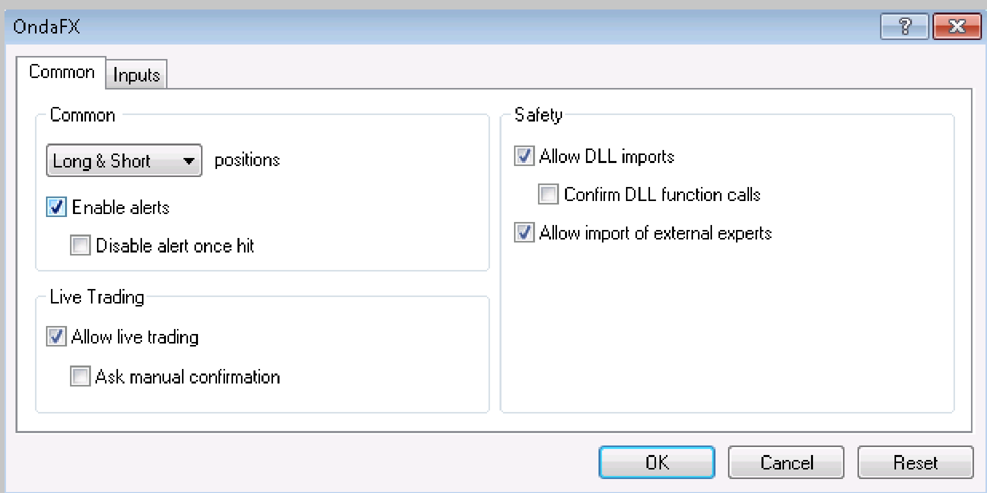
The first thing you have to do is to open a chart of the currency pair you'd like to trade using the EA.

Then you must attach the OndaFX EA to this chart. Look for the "Navigator" window of your MT4 platform. If it is not visible then you can enable it using this menu: "View > Navigator".

In the Navigator window you will find "OndaFX" listed under "Expert Advisors". Right click on it and select "Attach to a chart".

At this point you will see a "OndaFX" windows that pops up. Like for any EA, this window has two tabs where proper values must be set by the user: "Common" and "Inputs".

The "Common" tab must have values like shown in the picture below:



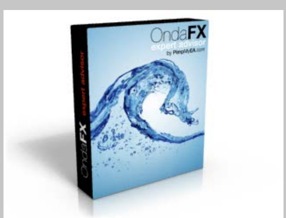
The "Inputs" tab is shown below:

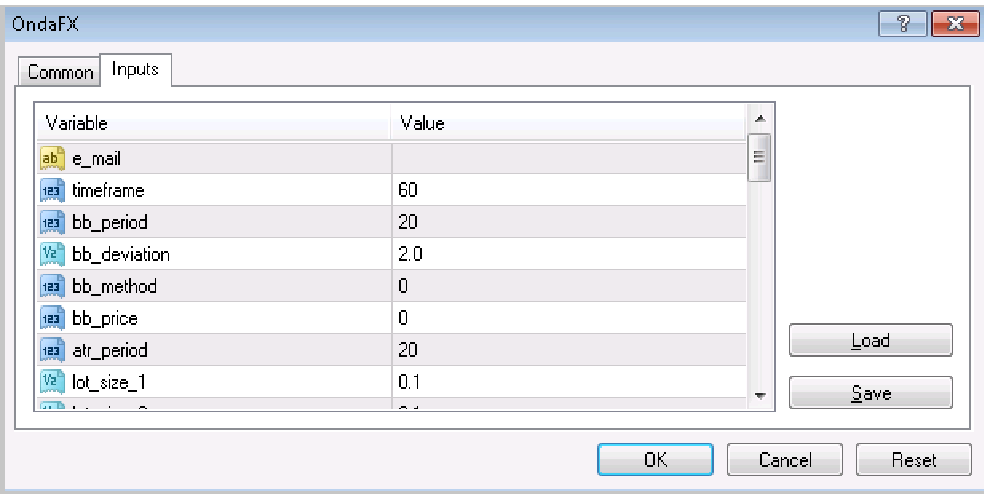
Want To Be Notified Of New Blog Posts?

Name:

Email:

Submit





The "e_mail" input settings must contain the email address you used when purchasing this product (please keep in mind the license is usually activated within the first 24 hours from the purchase).

Please take some time to setup properly the "lot_size" and "take_profit" parameters in the Input window according to your money management.

When all the input values are set properly you can click on the "OK" button and OndaFX EA will be attached to your chart. A smiling face on the top right of your chart means that the EA is working properly.

Textual Interface

By default the OndaFX displays the following text interface:


OndaFX v1.00
www.pimpmyea.com
Status: RUNNING |||||||||||||||
Closed Orders Profit: $ 0.00
BUY Orders: 0 (0.00 lots)
SELL Orders: 0 (0.00 lots)
BUY Target: $ 0.00
SELL Target: $ 0.00
BUY Orders Value: $ 0.00
SELL Orders Value: $ 0.00
TOTAL Open Orders Value: $ 0.00
MAX Floating DD: $ 0.00
BUY Breakeven Level @ 0.00000
SELL Breakeven Level @ 0.00000
Base Lot Size: 0.10 lots
Slippage: 5.00 pips

The interface changes in real time (tick by tick) showing in detail what's happening and what is going to happen. Here is the exact meaning of each row from top to bottom:

- the EA name (OndaFX) and version number (first released version is v1.00)
- a copyright notice (www.pimpmyea.com)
- the Profit&Loss of trades closed by the EA as reported in the MT4 Account History ("Closed Orders Profit")
- the number of opened Long trades and their lot size exposure within brackets ("BUY Orders")
- the number of opened Short trades and their lot size exposure within brackets ("SELL Orders")
- the cumulative profit target for a set of Long trades ("BUY Target")
- the cumulative profit target for a set of Short trades ("SELL Target")
- the floating Profit&Loss value of Long Trades ("BUY Orders Value")
- the floating Profit&Loss value of Short Trades ("SELL Orders Value")
- the floating Profit&Loss value ("TOTAL Open Orders Value")
- the historical maximum Floating Drawdown experienced while the EA is running ("MAX Floating DD")
- the breakeven level for a set of opened Long Trades (BUY Breakeven Level")
- the breakeven level for a set of opened Short Trades (SELL Breakeven Level")
- the first lot_size used in a set of BUY or SELL trades ("Base Lot Size")
- the "Slippage"

Input Settings

email ()
this field must contain the email address used for the transaction for buying the EA, otherwise it will not be able to authenticate and it will display an “Authorization failed” message on chart.

timeframe (60)
this input is the timeframe the EA works on (independently from the timeframe of the chart the EA is applied to). In order to run OndaFX on hourly bars please put timeframe=60 (default value).

bb_period (20)
this input is the period of Bollinger Bands.

bb_deviation (2)
this input is the multiplier of standard deviation used for upper and lower Bollinger Bands. Please note that this parameter can be a decimal fraction (not just an integer like in the standard MT4 Bollinger Bands indicator).

bb_method (0)
this input is the method used for the median line of Bollinger Bands. Please note that the the standard MT4 Bollinger Bands indicator only provides the “Simple Moving Average” method, whereas OndaFX provides 4 different methods: 0 (SMA), 1 (EMA), 2 (SMMA), and 3 (LWMA).

bb_price (0)
this input is the price used for calculating Bollinger Bands: 0 (CLOSE), 1 (OPEN), 2 (HIGH), 3 (LOW), 4 (MEDIAN), 5 (TYPICAL), 6 (WEIGHTED).

atr_period (“”)
this input is the period of ATR (Average True Range). This parameter affects the behavior of OndaFX when one or more of the following parameters is set to true: atr_take_profit, atr_stop_loss, atr_step_pips.

lot_size_1 (0.01), lot_size_2 (0.01), lot_size_3 (0.02), lot_size_4 (0.0), lot_size_5 (0.0), lot_size_6 (0.0), lot_size_7 (0.0), lot_size_8 (0.0)
the “lot_size” parameters define the lot size to be used for each one of the 8 trades that OndaFX can possibly open in both directions Long and Short. According to default parameters only 3 Long trades and 3 Short trades can be opened at the same time.

entry_rule (1)
this input parameter defines the rule to be used for opening the first trade.
Here are the rules for opening the first Long Trade:

1. the previous candle closes below the lower Bollinger Band: Close[1] < low_BB[1]
2. both the previous candle and the candle before that close below the respective lower Bollinger Band: Close[1] < low_BB[1] && Close[2] < low_BB[2]
3. like rule #2 but with an additional candle (three consecutive bars in a row closing below the lower BB): Close[1] < low_BB[1] && Close[2] < low_BB[2] && Close[3] < low_BB[3]
4. like the rule #1, plus the next candle must close above the lower BB: Close[1] > low_BB[1] && Close[2] < low_BB[2]
5. like the rule #2, plus the next candle must close above the lower BB: Close[1] > low_BB[1] && Close[2] < low_BB[2] && Close[3] < low_BB[3]
6. like the rule #3, plus the next candle must close above the lower BB: Close[1] > low_BB[1] && Close[2] < low_BB[2] && Close[3] < low_BB[3] && Close[4] < low_BB[4]

The rules for opening the first Short Trade are exactly like the previous ones but reversed, as an example:

1) the previous candle closes above the higher Bollinger Band: Close[1] > high_BB[1]

re_entry_rule (7)
this input parameter defines the rule to be used for opening additional trades after a first one is already opened.
The first 6 rules are identical to the “entry_rule” parameter above, but we also have another rule:

7) for Long trades: the previous candle closes above the median Bollinger Band: Close[1] > median_BB[1]
7) for Short trades: the previous candle closes below the median Bollinger Band: Close[1] < median_BB[1]

This last rule is important because a close above the median line after a bearish breakout is the first signal that a bullish reversal may be starting, and a close below the median line after a bullish breakout is the first signal that a bearich reversal may be starting. Rule #7 is the default “re-entry rule” for EURUSD.

median_period (20)
it is the period of the median line of Bollinger Bands used for Rule #7 above. A “median_period” bigger than “bb_period” may help better to spot the reversal described for the Rule #7 above (see the “re_entry_rule” parameter).

filter_sma (0)
this is the period of a SMA (Simple Moving Average) that can be used for filtering the first Long or Short trade to be opened. The default value (0) means that this filter is disabled. Example: filter_sma=200 means that the first Long trade can be opened only if price is above the 200 sma and the first Short trade can be opened only if price is below the 200 sma.

atr_take_profit (true)
if atr_take_profit=true then the “take_profit” parameters are multiples of ATR. As an example ATR=0.0019 (or 19

pips) and take_profit_1 = 3 means that the first take profit is $57.00 (57 US dollars) for each minilot. This value is automatically adjusted if the account currency is different from USD (as an example it would be about €44 if the account is EUR based). So if lot_size_1 = 0.01 the first take profit would be $5.70 for a USD based account and €4.40 for a EUR based account.

If atr_take_profit=false then the "take_profit" parameters are just "money" in the account currency (independently from the lot_size). As an example take_profit_1 = 20 would mean that the first take profit is $20.00 for a USD based account and €20.00 for a EUR based account. In this case the user must choose carefully the values of the "take_profit" parameters, otherwise the strategy may make very little sense with respect to the used lot sizes and to market volatility.

take_profit_1 (3), take_profit_2 (-1), take_profit_3(-1), take_profit_4 (0), take_profit_5 (0), take_profit_6 (0), take_profit_7 (0), take_profit_8 (0)
the "take_profit" parameters define the take profit level to be used according to the number of open trades. As an example if 1 long trade and 3 short trades are opened at the same time, then the long trade will be closed when its profit is equal or bigger than take_profit_1, while the 3 short trades will be closed when their cumulative profit is equal or bigger than take_profit_3.

These parameters can be pure "money" expressed in the account currency or ATR multipliers depending on the "atr_take_profit" parameter above (please read carefully).

atr_stop_loss (false)
if atr_stop_loss=true then the "stop_loss" parameter is a multiple of ATR. As an example ATR=0.0019 (or 19 pips) and stop_loss = 10 means that the stop loss is $190.00 (190 US dollars) for each minilot. This value is automatically adjusted if the account currency is different from USD (as an example it would be about €146 if the account is EUR based). So if lot_size_1 = 0.01 the stop loss would be $19.00 for a USD based account and €14.60 for a EUR based account.

If atr_stop_loss=false then the "stop_loss" parameter is just "money" in the account currency (independently from the lot_size). As an example stop_loss = 100 would mean that the stop loss is $100.00 for a USD based account and €100.00 for a EUR based account. In this case the user must choose carefully the values of the "stop_loss" parameter, otherwise the strategy may make very little sense with respect to the used lot sizes and to market volatility.

stop_loss (0)
this parameter (only when it is bigger than 0) forces the closure of a set of Long trades when their cumulative Profit&Loss exceeds its value, and forces the closure of a set of Short trades when their cumulative Profit&Loss exceeds its value. The two sets of trades are considered independently from each other.

This parameter can be pure "money" expressed in the account currency or an ATR multiplier depending on the "atr_stop_loss" parameter above (please read carefully).

atr_step_pips (true)
if atr_step_pips=true then the "step_pips" parameter is a multiple of ATR. As an example ATR=0.0019 (or 19 pips) and step_pips = 2 means that the minimum distance between two trades must be 38 pips.

If atr_step_pips=false then the "step_pips" parameter is just a "number of pips". As an example step_pips = 20 means that the minimum distance between two trades must be 20 pips.

step_pips (1)
this input defines the minimum distance between two trades in the same direction. It can be pure a "number of pips" or an ATR multiplier depending on the "atr_step_pips" parameter above (please read carefully)

slippage (5)
is the maximum number of pips for order slippage.

magic_buy (1234)
magic number associated to Long trades. Please remember to select different magic numbers if you plan to use OndaFX on different charts of the same currency pair with different input settings, otherwise the EAs will conflict with each other.
magic_sell (1235)
magic number associated to Short trades. Please remember to select different magic numbers if you plan to use OndaFX on different charts of the same currency pair with different input settings, otherwise the EAs will conflict with each other.
comment ("OndaFX")
the comment associated to orders. If you leave this field blank no comment will be associated to trades.
text_interface (true)
we suggest to select false (disabling the text interface) only when running backtests.
background_color (Teal)
this is the background color of the textual interface.

Chart Timeframe

Once the EA is applied to a chart with the proper value of the "timeframe" input setting (e.g. timeframe=60 for running OndaFX on hourly bars), the user can safely change the timeframe of the same chart without affecting how the EA works. Of course we suggest to keep the chart on the same timeframe specified with the "timeframe" input settings, so that you can esaily check that trades are opened/closed according to the strategy and to the input parameters.

Money Management

The rule of thumb is to allocate 2K (2 thousands) USD of balance when default settings are used (lot_size_1 = 0.01, lot_size_2 = 0.01, lot_size_3 = 0.02).

If you are a more aggressive trader and can easily tolerate a 30% drawdown then you may allocate only 1K USD per default settings.

Backtests

OndaFX can be backtested and "Control Points" are pretty accurate since trading decisions are only taken at the opening of each new bar.

Don't forget to put text_interface=false if you want the Strategy Tester to run much more quickly.

The last tip is to uncheck the "Visual mode" flag if you want the backtests to run more quickly.

Print PDF

Leave a Reply

Name (required)

Mail (will not be published) (required)

Website

CAPTCHA Code *

Submit Comment