

EA STRATEGY

The EA is based on several indicators.

These indicators generate signals (21 in total)

These signals can be disabled or not in the settings

The opening condition occurs when all **active** signals match.

At the order opening, the stop loss is placed on the last zigzag high/low + percentage of total points because placing SL at the exact place of high/low is risky

Take profit is calculated as a percentage of stop loss

A break even is optional (activated or not) and will be placed when a percentage of the take profit is reached.

A trailing stop is optional (activated or not) and will be placed as soon as the first candle closes in profit

- located below the bottom of the corresponding Heiken Ashi candle (for buy order)
- located above the top of the corresponding Heiken Ashi candle (for sell order)

The parameter panel allows the adjustment of indicators, money management and the activation/desactivation of signals for optimization purposes.

It also allows you to define a time slot during which positions can be opened. Outside of this slot he will not open positions. (hours of high spreads)

INDICATORS

Heiken Ashi MT5 Indicator by PipTick (HA)

<https://www.mql5.com/en/market/product/10756>

settings : default

Volume Weighted Moving Average (VWMA)

<https://www.mql5.com/en/market/product/67771>

settings : Period : 3

Volume type : Tick volume

vema_macd (VEMA)

<https://www.mql5.com/en/code/16747>

settings : default

William's percent range (%R)

MT5\Indicators\Oscillators

settings : default

Overlaid by **Adaptive Moving average (AMA)**

MT5\Indicators\Trend

settings : Period = 24

Fast MA = 2

Slow MA = 5

Money Flow Index (MFI)

MT5\Indicators\Oscillators

settings : default

Overlaid by **Adaptive Moving average (AMA)**

MT5\Indicators\Trend

settings : Period = 24

Fast MA = 2

Slow MA = 5

Relative Strength Index (RSI)

MT5\Indicators\Oscillators

settings : default

Overlaid by **Adaptive Moving average (AMA)**

MT5\Indicators\Trend

settings : Period = 24

Fast MA = 2

Slow MA = 5

Momentum (MOM)

MT5\Indicators\Oscillators

settings : default

Overlaid by **Adaptive Moving average (AMA)**

MT5\Indicators\Trend

settings : Period = 24

Fast MA = 2

Slow MA = 5

William's accumulation distribution (W_AD)

MT5\Indicators\Examples

settings : default

Overlaid by **Adaptive Moving average (AMA)**

MT5\Indicators\Trend

settings : Period = 24

Fast MA = 2

Slow MA = 5

Volumes (VOL)

MT5\Indicators\Volume

ZigZag (ZZ)

MT5\Indicators\Examples

settings : default

SIGNALS	
BUY	
1	- Candle close bullish
2	- Open only inside 5 first bullish HA candles of the movement/swing (option "n" candles range1 to 5)
3	- Price close above HA candle hi
4	- VWMA is bullish (Use the last higher time frame candle close if higher time frame is set. The signal is valid during all the progressing higher time frame candle)
5	- VEMA is growing (Use the last higher time frame candle close if higher time frame is set. The signal is valid during all the progressing higher time frame candle)
6	- VEMA > VEMA signal (VEMACD > 0) (Use the last higher time frame candle close if higher time frame is set. The signal is valid during all the progressing higher time frame candle)
7	- %R is growing
8	- %R > -50
9	- %R > AMA
10	- MFI is growing
11	- MFI > 50
12	- MFI > AMA
13	- RSI is growing
14	- RSI > 50
15	- RSI > AMA
16	- MOM is growing
17	- MOM > 100
18	- MOM > AMA
19	- W_AD is growing
20	- W_AD > AMA
21	- VOL is growing
SELL	
1	- Candle is bearish
2	- Open inside 4 first bearish HA candles of the movement/swing (option "n" candles range1 to 5)
3	- Price close below HA candle low
4	- VWMA is bearish (Use the last higher time frame candle close if higher time frame is set. The signal is valid during all the progressing higher time frame candle)
5	- VEMA is falling (Use the last higher time frame candle close if higher time frame is set. The signal is valid during all the progressing higher time frame candle)
6	- VEMA < VEMA signal (VEMACD < 0) (Use the last higher time frame candle close if higher time frame is set. The signal is valid during all the progressing higher time frame candle)
7	- %R is falling
8	- %R < -50
9	- %R < AMA
10	- MFI is falling
11	- MFI < 50
12	- MFI < AMA/
13	- RSI is falling
14	- RSI < 50
15	- RSI < AMA
16	- MOM is falling
17	- MOM < 100
18	- MOM < AMA
19	- W_AD is falling
20	- W_AD < AMA
21	- VOL is growing

TRADE MANAGEMENT

	- Wait candle close
	- 1 trade at a time
	- Buy SL = last ZZ low
	- Sell SL = last ZZ hi
	- TP = % SL (settings)
	- Trailing stop : <div>Option 1 : No trailing stop, use only SL/TP</div> <div>Option 2 : Break Even when profit = % TP (settings)</div> <div>Option 3 : Dont use TP and :<div>Trail under Heiken Ashi low for buy at the first close candle with positive profit</div><div>Trail above Heiken Ashi hi for sell at the first close candle with positive profit</div></div>

SETTING PANEL OPTION FOR OPTIMISATION

INDICATORS

	HA :	MA1_Method MA2_Method MA1_Perod MA2_Period
	VWMA :	Time frame Period Volume type (tick/real)
	VEMA	Time frame Fast period Slow Period Signal Period VVolume type (tick/real)
	%R :	Period
	AMA :	Period Fast EMA Slow EMA
	MFI :	Period Volume type (tick/real)
	AMA :	Period Fast EMA Slow EMA
	RSI :	Period
	AMA :	Period Fast EMA Slow EMA
	MOM :	Period
	AMA :	Period Fast EMA Slow EMA
	W_AD :	Volume type (tick/real)
	AMA :	Period Fast EMA Slow EMA
	VOL :	Volume type (tick/real)
	ZZ :	Depth Deviation Back step

SIGNALS

- "N" HA candle opening range (1 to 5)
- Signal 1 Active/Disabled
- Signal 2 Active/Disabled
- Signal 3 Active/Disabled
- Signal 4 Active/Disabled
- Signal 5 Active/Disabled
- Signal 6 Active/Disabled
- Signal 7 Active/Disabled
- Signal 8 Active/Disabled
- Signal 9 Active/Disabled
- Signal 10 Active/Disabled
- Signal 11 Active/Disabled
- Signal 12 Active/Disabled
- Signal 13 Active/Disabled
- Signal 14 Active/Disabled
- Signal 15 Active/Disabled
- Signal 16 Active/Disabled
- Signal 17 Active/Disabled
- Signal 18 Active/Disabled
- Signal 19 Active/Disabled
- Signal 20 Active/Disabled
- Signal 21 Active/Disabled

TRADE MANAGEMENT

- **Lot size**
- **% SL extention (SL at last zigzag high/low + %)**
- **TP % by SL**
- **Trailing Stop (option 1/option 2/Option 3)**
- **BE at %TP (Option 2)**
- **% balance engaged :**
 - Dont open trade if : "Balance engaged" > % total balance
 - Balance engaged = sum active SL (in all charts) + margin*
- **Start trading hour**
- **End trading hour**