Specification

FileName: Real Time Trade Data View.mq4 (Source Code)

Real Time Trade Data View.ex4 (Execution File)

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| **Functionality** | **Case** | **Description** | **What to Change**  **(on your side)** |
| Base Features | Background color | Royal Blue |  |
| Foreground color | Black(chart window outline and coordinate) |
| Show Grid | False |
| Show Ask line | True , Yellow |
| Show Bid line | True , Yellow |
| ASK |  | Retrieve real-time data from the server |  |
| BID |  | Retrieve real-time data from the server |  |
| Spread |  | Difference between ASK and BID price.  Implementation:  Spread = (ASK – BID) \* k |  |
| **Digits** = 5 | k = 10000; d = 5; |
| **Digits** = 4 | k = 10000; d = 4; |
| **Digits** = 3 | k = 100; d = 3; |
|  | ※ In MetaTrader, "**Digits**" refers to the number of decimal places used to quote currency pairs or other financial instruments. It represents the precision of the price quotes displayed on the platform.  For example, if a currency pair has 5 digits, such as EUR/USD with a price of 1.23456, it means that the price is quoted with five decimal places.  In this case, the last digit (6) is known as a "pipette" and represents the smallest possible price movement.  The number of digits can vary depending on the specific financial instrument and the broker's pricing convention. Some currency pairs may have 4 digits, while others can have 5 or even 3 digits.  ※Here “d” is used to display ASK, BID price. |
| HOD  (High Of Day) |  | Highest price at which a currency has traded during a particular trading day. |  |
| LOD  (Low Of Day) |  | Lowest price at which a currency has traded during a particular trading day. |  |
| TDR  (Today Daily Rate) |  | It refers to the range between highest and lowest price of a currency pair within a single trading day.  Implementation:  TDR = (HOD - LOD) \* k |  |
| YDR  (Yearly Daily Rate) |  | It refers to the range between highest and lowest price of a currency pair over the course of a year.  Implementation:  • first, calculate difference between highest price and lowest price everyday only for the days during the year when trade took place except Saturday and Sunday. (※Also leap years must be considered. For example, number of trading days from 01/01/2023 to today(11/14/2023) are 227 days)  •then, sum of the all differences divide number of trading days(in this case 227days) |  |
| WADR  (Weekly Average Daily Rate) |  | It represents the average range of price movement on a daily basis over a specific period, but calculated on a weekly basis. |  |
|  | Implementation:  • first, calculate average true range(ATR) everyday only for the days during the week when trade took place except Saturday and Sunday. (For example, number of trading days from 11/12/2023 to today are 2 days) |
| If current day is Sunday | Calculate previous week’s WADR(in this case number of trading days - 5) |
| Else | Calculate current week’s WADR (in this case number of trading days - 2) |
|  | •then, sum of the all ATR divide number of trading days |
| MADR  (Monthly Average Daily Rate) |  | It represents the average range of price movement on a daily basis over a specific period, but calculated on a monthly basis.  Implementation:  • first, calculate average true range(ATR) everyday only for the days during the month when trade took place except Saturday and Sunday. (For example, number of trading days from 11/01/2023 to today are 10 days)  •then, sum of the all ATR divide number of trading days |  |
| HADR  (Highly Yearly Average Daily Rate) |  | It represents the average range of price movement on a daily basis over a specific period, but calculated on a yearly basis.  Implementation:  • first, calculate average true range(ATR) everyday only for the days during the year when trade took place except Saturday and Sunday.  (※Also leap years must be considered.)  (For example, number of trading days from 01/01/2023 to today are 227 days)  •then, sum of the all ATR divide number of trading days |  |

※Finally I added current open currency pair and timeframes view(color: Red) after the last line betweens.(It’s for the test. Can be deleted on your mind.)