Nikkei 225 Total Return Index Index Guidebook

Nikkei Inc.

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(November 13, 2012 version)

1 : Concept

The Nikkei 225 Total Return Index measures the performance of the Nikkei 225, including both movements in the price and reinvestment of dividend incomes from the component stocks at the closing of ex-dividend dates. It is common for Japanese companies to fix dividends paying to their shareholders after the ex-date. Therefore estimated dividends are used for the index calculation on the ex-date. The difference between the estimated dividend and the actual dividend reflects the index on the next business day when the dividend is fixed.

2: Index Calculation

(1) Basic points

- Index value on a day is calculated by multiplying the index value on the previous day by the change rate on the day based on the return of the Nikkei 225 including dividends.
- Dividends used for the calculation are estimated dividends published by Nikkei (reflecting the estimated figures published until (or including) the day before the ex-dividend dates). If the actual dividends are changed from the estimated dividends, the index value is adjusted by reflecting the differences on the next business day when the dividends are fixed. For the retroactive calculation of the index in the past, see 4-(2).
- The timing to fix the dividends is the same as that for the calculation of the "Nikkei Stock Average DP Index" (i.e. on the dates of annual regular shareholder meetings in case of the annual dividends/ on the dates of the publication by the companies in case of the other dividends).
- Unit of the index value is "points" and the figure is rounded to two decimal places.
- The index value on December 28, 1979 was 6569.47 (equal to closing price of the Nikkei 225 (price index) on the day).
- The index is calculated and published as the value on the end-of-day basis since December 3, 2012.

(2) Formula

*In the following formula, "Nikkei225" indicates its closing price.

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Index \ Value_t = Index \ Value_{t-1} \\ \times \frac{Nikkei \ 225_t + Estimated \ Ex-Dividend_t + Dividend \ Adjustment_t}{Nikkei \ 225_{t-1}}
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• t: current day, t-1: previous day.

Estimated Ex-Dividend is calculated as follows:

 $Estimated \ Ex-Dividend_{t}$ $= \sum \frac{Estimated \ Ex-Dividend \ of \ Constituent_{t} \ / \ Presumed \ Par \ Value_{ex-date} \times 50}{Divisor \ of \ Nikkei \ 225_{ex-date}}$

- Estimated Ex-Dividend of Constituent indicates dividend per share (gross cash dividend, including special dividend and commemorative dividend). The value is zero on the other days than the ex-dividend date.
- Presumed Par Value and Divisor of Nikkei 225 on the ex-dividend date are used for the calculation.
- The figure is rounded to two decimal places.

Dividend Adjustment is calculated as follows:

 $Dividend\ Adjustment_{t}$ $= \sum \frac{Dividend\ Adjustment\ of\ Constituent_{t}\ /\ Presumed\ Par\ Value_{ex-date}\ \times\ 50}{Divisor\ of\ Nikkei\ 225_{ex-date}}$

- Dividend Adjustment of Constituent is equal to the actual (fixed) dividend per share minus the estimated ex-dividend. The value is zero on the other days than the adjustment date. Presumed Par Value and Divisor of Nikkei 225 on ex-dividend date are used for the calculation.
- The figure is rounded to two decimal places.

3: Calculation example

(1) Calculation on Feb 27, 2012 (Ex-dividend date)

*In the following example, t is Feb 27, 2012 and, t-1 is Feb 24, 2012.

- $Index\ Value_{t-1} = 13434.99$
- *Nikkei* $225_{t-1} = 9647.38$
- *Nikkei* $225_t = 9633.93$
- Estimated Ex-Dividend_t = 7.25

J.Front Retailing (3086) : $(3.5 / 50 \times 50) / 24.966 = 0.140190...$ Seven & i Holdings (3382) : $(33 / 50 \times 50) / 24.966 = 1.321797...$ Takashimaya (8233) : $(5 / 50 \times 50) / 24.966 = 0.200272...$ Aeon (8267) : $(23 / 50 \times 50) / 24.966 = 0.921252...$ Toho (9602) : $(15 / 500 \times 50) / 24.966 = 0.060081...$ Fast Retailing (9983) : $(115 / 50 \times 50) / 24.966 = 4.606264...$ • Dividend Adjustment_t = 0

 $Index\ Value_t = 13434.99 \times \{(9633.93 + 7.25 + 0) / 9647.38)\} = 13426.355... \approx 13426.36$

(2) Calculation on April 13, 2012 (adjustment date)

*In the following example, t is April 13, 2012 and, t-1 is April 12, 2012.

- April 12, 2012: the dividend per share of Fast Retailing (9983) was fixed as 130 (it's figure was 115)
- $Index\ Value_{t-1} = 13389.84$
- *Nikkei* $225_{t-1} = 9524.79$
- *Nikkei* $225_t = 9637.99$
- Estimated Ex-Dividend_t = 0
- Dividend Adjustment_t = 0.60

Fast Retailing (9983) : $\{(130 - 115) / 50 \times 50\} / 24.966 = 0.600817...$

 $Index\ Value_t = 13389.84 \times \{(9637.99 + 0 + 0.60) / 9524.79\} = 13549.818... \approx 13549.82$

4: Treatment of the index value

(1) Publication of the index value

As a general rule, the indices are published as the value on the end-of-day basis by 4:30pm on every business date on Nikkei Indexes (http://indexes.nikkei.co.jp/en/).

(2) Retroactive calculation in the past

The Nikkei 225 Total Return Index was calculated retroactively back to December 28, 1979 on the end-of-day basis. However, from 1979 to 1990 dividend used on ex-dividend date was not the estimated dividend but the actual dividend.

(3) Modification of the index value

If any event which affects the index value occurs, as a general rule, retroactive calculation for the modification will not be conducted. However if the Nikkei Stock Average (Nikkei 225) used to calculate the Nikkei 225 Total Return Index is modified retroactively, this index may also be modified retroactively.

5: Nikkei 225 Net Total Return Index

In addition to the above index including gross dividends, the Nikkei 225 Net Total Return Index is also calculated on the end-of-day basis as a reference value, using dividends after the deduction of tax for the calculation.

6: Others

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225) which is used to calculate the Nikkei 225 Total Return Index.

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