

# YIELDDISC

Updated: 24 May 2016

Use **YIELDDISC** to calculate the yield on a discount instrument, given the price using the following formula:

$$Y = \frac{RV - P}{P} \times \frac{B}{DSM}$$

Where:

- B = Number of days in the year
- DSM = Number of days from settlement date to maturity date
- P = Price per 100 par value
- RV = Redemption Value
- Y = Yield

## Syntax

```
Public Shared Function YIELDDISC(  
    ByVal Settlement As Date,  
    ByVal Maturity As Date,  
    ByVal Pr As Double,  
    ByVal Redemption As Double,  
    ByVal Basis As String,)
```

## Arguments

### *Settlement*

the settlement date of the bond. *Settlement* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

### *Maturity*

the maturity date of the bond. *Maturity* is an expression that returns a **Date**, or of a type that can be implicitly converted to **Date**.

### *Pr*

the price per 100 par value of the instrument. *Pr* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

### *Redemption*

the redemption value of the instrument. *Redemption* is an expression that returns a **Double**, or of a type that can be implicitly converted to **Double**.

### *Basis*

the daycount convention associated with the bond. *Basis* is an expression that returns a **String**, or of a type that can be implicitly converted to **String**. Permissible values are:

<b>Basis</b>	<b>Day count basis</b>
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0, "BOND"	US (NASD) 30/360
1, "ACTUAL"	Actual/Actual
2, "A360"	Actual/360
3, "A365"	Actual/365
4, "30E/360 (ISDA)", "30E/360", "ISDA", "30E/360 ISDA", "EBOND"	European 30/360
5, "30/360", "30/360 ISDA", "GERMAN"	30/360 ISDA
7, "NL/365"	No Leap Year /365
8, "NL/360"	No Leap Year /360
9, "A/364"	Actual/364
21, "Actual/ISDA"	Actual/ISDA

## Return Type

Double

## Remarks

- If Settlement IS NULL then Settlement equals the current system processing date.
- If Basis is NULL then Basis = 0.
- If Basis is invalid then an error is returned.

## See Also

- BONDDCF - Cash flows for a bond paying regular periodic interest
- DIRTYPRICE - Dirty price of a bond
- DIRTYYIELD - Yield of a bond from the dirty price
- DIS - Price, discount rate, and/or yield of a discount security
- DISC - Discount rate
- DISFACTORS - Factors for the price calculation of a discount security
- IAM - Price and/or yield of a security paying interest at maturity
- IAMFACTORS - Factors for the price calculation of a security paying interest at maturity
- ODDFPRICE - Price of a bond with an odd first coupon
- ODDFYIELD - Yield of a bond with an odd first coupon
- ODDLPRICE - Price of a bond with an odd last coupon
- ODDLyield - Yield of a bond with an odd last coupon
- OFC - Calculate the price and/or yield of a bond with an odd first coupon using the ODDFPRICE equation
- OFCFACTORS - Returns the components of the ODDFPRICE equation
- OFL - Calculate the price and/or yield of a bond with an odd first and an odd last coupon using the OFLPRICE equation
- OFLFACTORS - Returns the components of the OFLPRICE equation
- OFLPRICE - Calculate the price of a security with an odd first and odd last period
- OFLYIELD - Calculate the yield of a security with an odd first and odd last period

- OLC - Calculate the price and/or yield of a bond with an odd last coupon using the ODDLPRICE equation
- OLCFACTORS - Returns the components of the ODDLPRICE equation
- PRICE - Price of a security paying regular periodic interest
- PRICEACT - Price of a bond where coupon amounts are based on number of days in the coupon period
- PRICEACTV - Cash flows and discount factors for a bond where coupon amounts are based on number of days in the coupon period
- PRICEDISC - Price of a discounted security
- PRICEFR - Price of a bond with forced redemptions
- PRICEMAT - Price of an interest-at-maturity security
- PRICESTEP - Price of a security with step-up rates
- RPI - Calculate the price and/or yield of a bond with regular periodic coupons
- RPIFACTORS - Factors for the calculation of the price of a bond that pays regular periodic interest
- TBILLEQ - Bond equivalent yield of a Treasury Bill
- TBILLPRICE - Price of a Treasury Bill
- TBILLYIELD - Yield of a Treasury Bill
- YIELD - Yield of a bond paying regular periodic interest
- YIELDACT - Yield of a bond where coupon amounts are based on number of days in the coupon period
- YIELDFR - Yield of a bond with forced redemptions
- YIELDMAT - Yield on an interest-at-maturity security
- YIELDSTEP - Yield of a security with step-up rates