

# The Sky <sup>LIVE</sup>

Your guide to the Solar System and the night sky

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 Greenwich, United Kingdom [change]

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## DENEbola - $\beta$ LEONIS (BETA LEONIS)

Denebola, also designated as  $\beta$  Leonis (beta Leonis), is a variable and multiple main-sequence star in the constellation of **Leo**.

Denebola visual magnitude is 2.14, making it the 62th brightest star in the sky. Thanks to its high brightness, Denebola is clearly visible when observed from locations with dark skies, and should be also quite easily visible from light polluted areas.

The table below summarizes the key facts about Denebola:

Color of Denebola



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## Other stars in Leo

- Regulus
- Denebola
- Zosma
- Algieba
- $\epsilon$  Leonis

Magnitude of Denebola

2.14

Class

Main-sequence

## VISIBILITY RIGHT NOW

Denebola -  $\beta$  Leonis (beta Leonis) is **above the horizon** from Greenwich, United Kingdom  
[change]. Altitude: 21°.

## CELESTIAL COORDINATES AND FINDER CHART OF DENEbola

Denebola is situated close to the celestial equator, as such, it is at least partly visible from both hemispheres in certain times of the year. Celestial coordinates for the J2000 equinox as well as galactic coordinates of Denebola are provided in the following table:

Right Ascension J2000

11h 49m 03s

Declination J2000

+14° 34' 18"

Galactic Longitude

250.65°

Galactic Latitude

70.81°

Constellation

Leo

The simplified sky map below shows the position of Denebola in the sky:

- Chertan
- Adhafera
- $\eta$  Leonis
- Subra
- $\gamma^2$  Leonis
- $\rho$  Leonis
- Rasalas
- $\iota$  Leonis
- $\sigma$  Leonis
- $\upsilon$  Leonis
- Alterf
- 31 Leonis
- 60 Leonis
- $\kappa$  Leonis
- $\varphi$  Leonis
- 93 Leonis
- 72 Leonis
- $\chi$  Leonis
- $\pi$  Leonis
- 61 Leonis
- 87 Leonis
- 40 Leonis
- 58 Leonis
- $\tau$  Leonis
- $\xi$  Leonis
- 59 Leonis
- 10 Leonis
- 6 Leonis
- 48 Leonis
- 75 Leonis
- 92 Leonis
- $\nu$  Leonis



*Simplified finder chart for Denebola -  $\beta$  Leonis (beta Leonis).*

## VISIBILITY OF DENEbola FROM YOUR LOCATION

**Location:** Greenwich, United Kingdom [[change](#)]

**Latitude:** 51° 28' 47" N

**Longitude:** 0° 00' 00" E

**Timezone:** Europe/London

- 22 Leonis
- 73 Leonis
- 53 Leonis
- $\psi$  Leonis
- 79 Leonis
- 37 Leonis
- $\omega$  Leonis
- 69 Leonis
- HR4253
- 46 Leonis
- 52 Leonis
- 51 Leonis
- 65 Leonis
- 86 Leonis
- 95 Leonis
- HR3820
- 81 Leonis
- 44 Leonis
- 18 Leonis
- 15 Leonis
- HR3952
- 49 Leonis
- 67 Leonis
- 8 Leonis
- 3 Leonis
- HR3942
- 85 Leonis
- 89 Leonis
- HR3876
- HR4358
- HR4404
- HR4465

Today's **Denebola -  $\beta$  Leonis (beta Leonis)** rise, transit and set times from Greenwich, United Kingdom [**change**] are the following (all times relative to the local timezone Europe/London):

**RISE**

Azimuth: 75.4°

20:10

**TRANSIT**

Max altitude: 53.1°

3:28

**SET**

Azimuth: 284.6°

10:42

**RIGHT NOW**

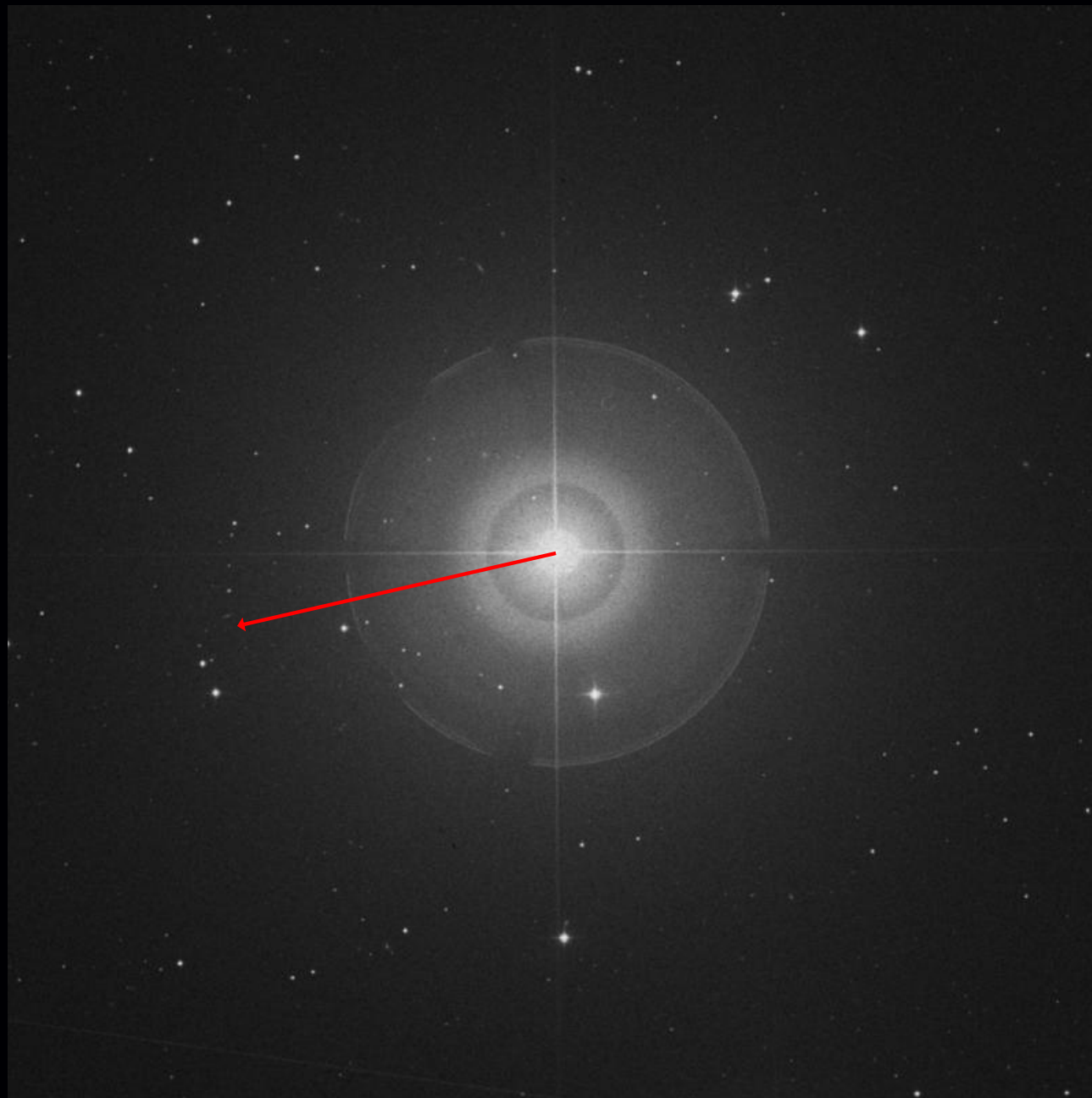
Denebola -  $\beta$  Leonis (beta Leonis) is above the horizon from Greenwich, United Kingdom

## DIGITIZED SKY SURVEY IMAGE OF DENEbola

The image below is a photograph of Denebola from the Digitized Sky Survey 2 (DSS2 - see the **credits** section) taken in the red channel. The area of sky represented in the image is 0.5x0.5 degrees (30x30 arcmins). The **proper motion** of Denebola is -0.497 arcsec per year in Right Ascension and -0.114 arcsec per year in Declination and the associated displacement for the next 1000 years is represented with the red arrow.

- 56 Leonis
- 39 Leonis
- HR4032
- HR3926
- HR4531
- HR3850
- 55 Leonis
- 76 Leonis
- 62 Leonis
- 90 Leonis
- 35 Leonis
- HR4012
- HR4512
- HR3882
- HR4535
- HR4006
- HR3938
- 45 Leonis
- HR4394
- 43 Leonis
- 20 Leonis
- HR4249
- 42 Leonis
- HR4303
- HR4269
- HR4097
- 88 Leonis
- 13 Leonis
- HR4419
- HR3804
- HR4197
- HR3736

- HR3936
- HR4341
- 54 Leonis
- HR4245
- HR4543
- 7 Leonis
- HR4207
- HR3969
- 80 Leonis
- HR4244
- HR4048
- HR3723
- 34 Leonis
- HR4459
- 19 Leonis
- 23 Leonis
- 64 Leonis
- HR3869
- 83 Leonis
- HR4041
- HR3792
- HR4454
- HR4281
- HR4028
- HR4464
- HR4505
- HR4378
- HR4366



*DSS2 image of Denebola. The red arrow shows the motion of Denebola during the next **1000 years** (-8.28 arcmin in Right Ascension and -1.90 arcmin in declination);*

## DISTANCE OF DENEbola FROM THE SUN AND RELATIVE MOVEMENT

Denebola is distant 36.16 light years from the Sun

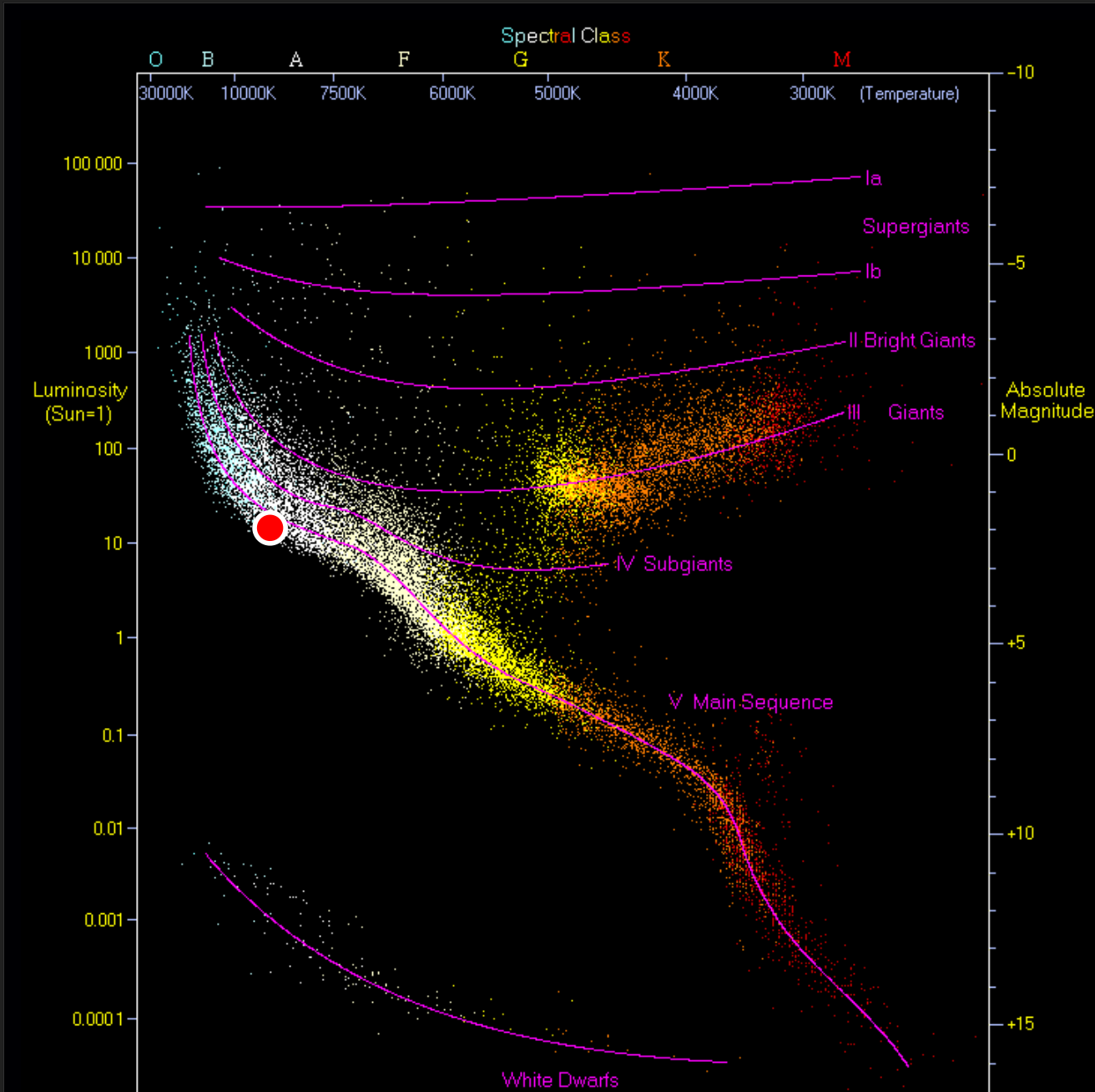
Distance (parsec)	11.09 pc
Distance (light year)	36.16 ly
Proper Motion RA	-0.497 arcsec/year
Proper Motion Dec	-0.114 arcsec/year

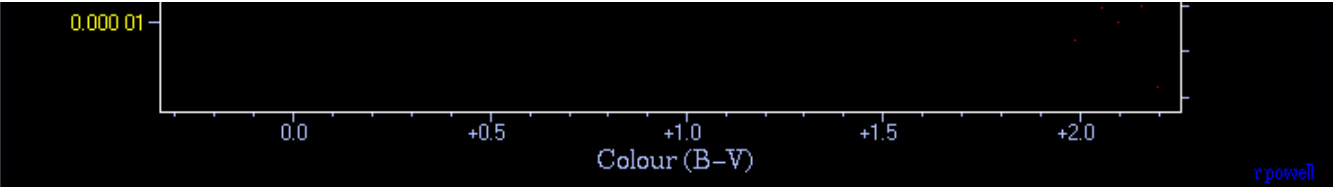
## SPECTRAL PROPERTIES OF DENEbola

Denebola belongs to **spectral class** A3 and has a luminosity class of V corresponding to a main-sequence star.

Absolute magnitude	1.92
Spectral Type	A3V
<b>Color Index (B-V)</b>	0.09
Temperature of Denebola	9125K

The red dot in the diagram below shows where Denebola is situated in the **Hertzsprung-Russell diagram**.





H-R diagram showing the position of Denebola. Attribution: Richard Powell / CC BY-SA

## DENEbola STAR SYSTEM PROPERTIES

Denebola is a visual double star which can be observed only with the help of very large telescopes. The table below shows key information about the Denebola double sysyem:

Main star magnitude	2.14
Secondary star magnitude	8.64
Magnitude difference	6.5
Separation	264 arcsec

## ALTERNATIVE DESIGNATIONS OF DENEbola

Proper Name	Denebola
Bayer designation	$\beta$ Leonis (beta Leonis)
Flamsteed designation	94 Leonis



Henry Draper Catalogue	HD102647
SAO Catalogue	SAO99809
SAO Catalogue	SAO99809
Hipparcos Catalogue	HIP57632
Durchmusterung Catalogue	BD+15 2383
Gliese Catalogue	Gl 448
FK5 Catalogue	444
General Catalogue of Variable Stars	Bet Leo
Aitken Double Star Catalogue	ADS8314

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