

# Asteroid Occultation Report

Observation was: Positive    Takeshi Nemoto    Email: nemoto00@juno.ocn.ne.jp

[Date ] 2025.12.30 [Approx hour] 10.3  
 [Star ] UCAC4 585-027122 VMag=11.21  
 RMag=10.39  
 [Asteroid ] (370)Modestia 13.43 mag.  
 Dia=4.1±2.4km    Main-belt Asteroid  
 Gaia binary asteroid #1(Sepn 65±7km, dia 5.8km Durn 0.51s) #2(Sepn 60±7km, dia 38.2km Durn 3.41s)  
 [Observer ] 1: Takeshi Nemoto 2:  
 [Location ] Maebashi, Gunma, JP  
 [Longitude ] 139o07'24.0" E  
 [Latitude ] 36o27'29.0" N  
 [Altitude ] 366m  
 [Datum ] WGS84

[Event time] D: 10h22m14.454s +/- 0.011s (UTC)  
 S/N=6.25  
 R: 10h22m18.620s +/- 0.010s (UTC)  
 S/N=6.40  
 [Predicted Time error] 0.201 sec [RUWE] 1.30

[Recorded ] From 10h21m20s  
 To 10h23m41s

[Mag. drop ] D: Measured: Mag Drop (measured) :  
 2.10 Mag. ; Predicted: Mag Drop (predicted): 2.4  
 Mag.  
 R: Measured: Mag Drop (measured) :  
 2.13 Mag. ; Predicted: Mag Drop (predicted): 2.4  
 Mag.

[Telescope ] Aperture: 25cm    Type: Newtonian  
 F=2.5

[Camera ] Analog or Digital video , Model=  
 ASI290MM

[Exposure ] Set: 67.0msec, Measure: 67.0msec  
 [Setting ] Area: 640x480 ; Binning=2

Gain: 425 ; Brightness: 100 ; High  
 Speed Mode: Off

[Time keep ] GPS ; Model: GT902MGG

[Evidence ] GPS Time Log : Recorded ; Screen  
 shot: Recorded

[Condition ] Stability: Slight flickering

Transparency: Clear

[Remarks ]

[Additional comment]

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