



**M 42 – Great Orion Nebula**

Date/time: 03.01.2009 23:13 to 04.01.2009 00:25

Az./Alt. positions: 180° / 35° to 201° / 32°

Ambient conditions: -10°C, transparency 4/5, seeing 3/5,  
¼ Moon, Moonset at 00:10

Location: Trier, Germany

**Equipment:**

Telescope: TMB 92 SS f/5.5 with TSFlat

Mount: CGE, selfguided with ST-4000XCM

Camera: SBIG ST-4000XCM

Filters: IDAS LPS

**Acquisition:**

Software: CCDSoft V5

FOV, Image scale: 102,8 x 102,8 arcmin, 3,01 arcs/pixel

Sub-exposures: 30min (15 x 2min) lights at  $-30^{\circ}\text{C}$

46 dark frames

**Processing:**

Calibration, stacking and DDP in Images Plus 3.75,

curves and levels adjustments in CS3, noise reduction with Carbonis Actions,

color enhancement using Gabany method under CS3,

non-linear saturation curve in Pixinsight LE 1.0.

**Comments:**

This was the first set of frames intended to be used for a composite image. Due to worsening weather conditions the session had to be interrupted.

{downloader mode="level" level="public" file="nebulae/m42\_2009-01-03\_full.jpg"}