

**NEW DIGITAL VECTOR MAGNETOGRAPH OBSERVATION BY THE
SOLAR FLARE TELESCOPE**

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Recently, we have set up a new digital CCD camera system, CoolSnap-fx manufactured by Roper Scientific, for vector magnetograph observations by the Solar Flare Telescope at Bohyunsan Optical Astronomy Observatory. It has a 12 bit dynamic range, a pixel number of 1300×1030 , a thermoelectric cooler, and an electric shutter. Its readout speed is about 12 frames per second and its dark current is about $0.01 \text{ e}^-/\text{p/s}$ at -30°C . We have made its system performance test by confirming system linearity, system gain, and system noise that its specification requires. We have also developed a data acquisition software which links a digital camera to PC.