

## Optical Music Recognition (OMR)

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### 1. Programs to scan sheet music

#### 1.1. Optical Music easy Reader (OMeR)

*Optical Music easy Reader (OMeR)* by Didier and Olivier Guillion scans printed sheets and writes them as *.msf files* on Macintosh and Windows. I didn't find any documentation about the *msf format*. This format can be read by *>Melody Assistant* or its big brother *Harmony Assistant* which use *.mus* files. There are many different *.mus* formats and I don't know any documentation about this one. All three mentioned programs are shareware.

Both Assistants can export the data as *abc* files that can be read by many programs.

#### 1.2. Musitek SmartScore

Details see Musitek [SmartScorePro](#)

#### 1.3. SharpEye Music Reader

See Visiv [SharpEye Music Reader](#).

#### 1.4. VivaldiScan

See Vivaldi [VivaldiScan](#).

#### 1.5. Capella-scan

See [capella-Scan](#)

#### 1.6. PhotoScore

Siehe Neuratron [PhotoScore](#)

## 1.7. MIDI-Connections SCAN

*MIDI-Connections SCAN* by MIDI-Connections for Wintel saves the scanned scores as Standard MIDI File and therefore inherits the limitations of MIDI. One should use MIDI only to play but not to print music.


## 1.8. Gamera

*Gamera* is a "Software framework for the creation of domain-specific recognition applications" and one domain is Optical Music Recognition. It is a project at [Johns Hopkins University](http://www.jhu.edu) by Ichiro Fujinaga, Michael Droettboom and Karl MacMillan. It exports in *Guido format*.

## 1.9. Audiveris Music Scanner

*Audiveris Music Scanner* is a Java programm. License: GNU General Public License (GPL v. 2.0). It exports to *MusicXML format*.

## 1.10. Music Publisher Scanning Edition

 *Music Publisher Scanning Edition* is the Music Publisher music notation program plus optical music recognition.

## 1.11. PDFtoMusic Pro Music Scanner

*PDFtoMusic Pro Music Scanner* extracts music from PDF files. It exports to *MusicXML format*, *.msf format* und *MIDI format*.

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*PDFtoMusic Music Scanner* extracts music from PDF files. It exports to *.msf format* und *MIDI format*.

## 1.13. Scoremaker

Kawai *Scoremaker* (Japanese)

## 1.14. Middle C Software

Only for programmers: [Middle C Software](#) is to be made available primarily as a library for use by 3rd party software houses (written in C++).

## 2. OMR Science

[Visual Perception of Music Notation](#) by Susan Ella George, University of South Australia, Australia, IRM PRes (2004)

[Strike Up the Score](#) , Deriving Searchable and Playable Digital Formats from Sheet Music, by G. Sayeed Choudhury, Tim DiLauro, Michael Droettboom, Ichiro Fujinaga, Karl MacMillan

[Info page on Optical Music Recognition](#) by [David Bainbridge](#) .

[An extensible Optical Music Recognition system](#) by D Bainbridge

[Dealing with superimposed objects in optical music recognition](#) by D Bainbridge and T C Bell

[Automatic recognition of printed music in the context of electronic publishing](#) , thesis by Nicholas Paul Carter

Assessing Optical Music Recognition Tools by Pierfrancesco Bellini, Ivan Bruno and Paolo Nesi, Computer Music Journal Volume 31 Number 1, (Spring 2007)

## 3. More OMR pages

[Bringing Sheet Music to Life: My Experiences with OMR](#)

[OMR \(Optical Music Recognition\) Systems](#) by Donald Byrd.