

## Optical Music Recognition (OMR)

1. [Programs to scan sheet music](#)
2. [OMR Science](#)
3. [More OMR pages](#)

### 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

Music Notation - [www.music-notation.info](http://www.music-notation.info) - Copyright 1997-2019, [Gerd Castan](#)

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](#) 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](#)

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[format](#) und [MIDI format](#) .

## 1.12. PDFtoMusic Music Scanner

[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.