

[PV30 ACG Operational Description](#)

The PV30 ACG reader is used to scan passports and ID cards. It provides full-image and data capture from a variety of personal identification documents. The reader can help detect forged or counterfeit documents. It converts data from documents encoded with OCR text, 1D barcodes, infra-red, ultra-violet, and contactless integrated circuit chips (RFID).

[Components](#)

[Host PC](#)

The PV30 reader requires a host PC with keyboard and mouse running Windows 2000 SP4 or Windows XP. With the 3M Document Authenticator application program running, the security document needs only to be placed on the document window and the program will read data from the RFID tag and display it within one to two seconds.

[RFID Reader](#)

The PV30 uses an ACG Identification Technologies RFID reader. The reader operates over short distances (a few inches) and enables data capture from identification documents using ISO 14443-2, 3, 4 protocol RF chips. Because of the short distances, the reader does not interfere with other electronic devices such as PC monitors, wireless communications (e.g., 802.11g), or cell phones.

[RFID Antenna](#)

To read documents with RFID tags, the reader is equipped with a figure-8 antenna that completely surrounds the document window and detection is done regardless of document orientation.

[Communication](#)

Communications between the host PC and the reader is done using USB 2.0 at 480 Mbits per second over a 2.0 meter USB cable. The reader draws no power from the host USB system.