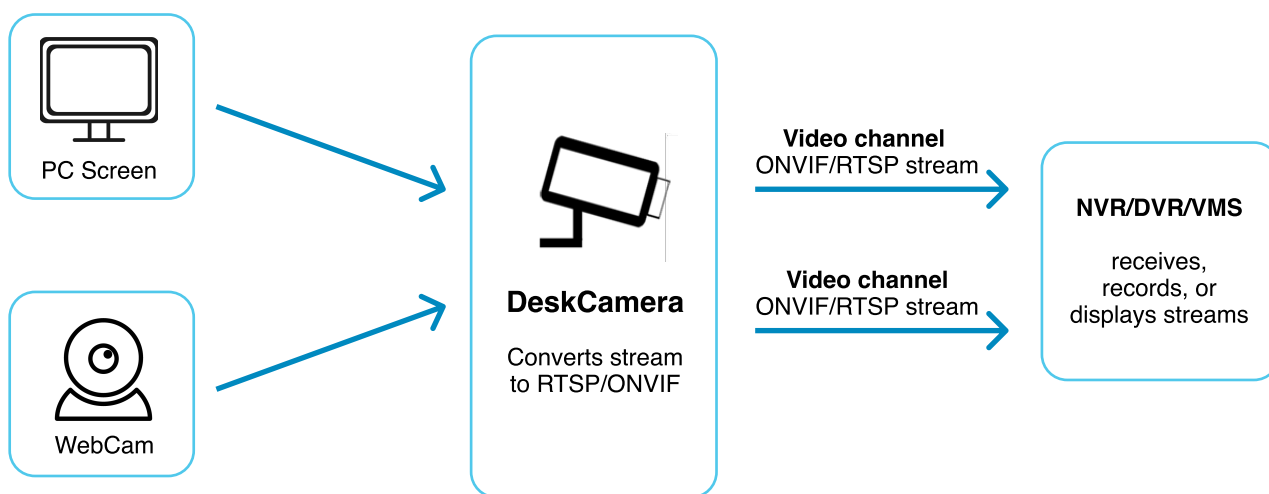## Overview

DeskCamera transforms a computer into a **virtual ONVIF IP Camera**, enabling users to stream their PC desktop, webcam feed, audio, and other media to any **VMS (Video Management System)** or **NVR (Network Video Recorder)** using **RTSP** and **ONVIF** protocols.

How does is work

PC Screen → **DeskCamera** Converts stream to RTSP/ONVIF

WebCam →

Video channel ONVIF/RTSP stream →

Video channel ONVIF/RTSP stream →

NVR/DVR/VMS receives, records, or displays streams

Use Cases

DeskCamera is a software installed on PCs or systems with Windows OS that transmits screen video and desktop content.
- **Retail** – Point-of-sale (POS) systems, cashier PCs.
- **Banking** – Teller workstation PCs, transaction monitoring systems.
- **Security & Surveillance** – SCADA systems, dispatch center screens, security control panels.
- **Education & Certification Centers** – Exam proctoring systems, certification workstation screens.
- **Industrial & Manufacturing** – Control panel PCs, automation dashboards, industrial monitoring systems.

System Requirements

- **OS:** Windows 7 SP1 or later (Windows 8+ required for hardware-accelerated encoding)
- **Hardware Acceleration** (Optional):
  - Intel CPU with Intel QSV (i3, i5, i7, i9)
  - Nvidia GPU with NVENC
  - AMD GPU with VCE
- **Application Window Streaming** (Optional)**:** Windows 10 (1903 or later)

Supported Media Sources

Full screens	✔
Selected screen areas	✔
Selected application windows	✔
Combined sources (PiP, Wall)	✔
External HTTP/RTSP streams	✔

Streaming & Encoding

Resolution	640x480-1920x1080 (default), up to 4K (4096x2160)
FPS	3 – 60 FPS
Bitrate	512 - 10240 Kbps
Encoding	H264 (software/hardware), H265 (hardware), MJPEG
Audio Formats	G711 u-law, AAC
Video Overlays	Cursor, Timestamp, Custom text
Rotation Options	Auto, None, R90, L90, FlipH, FlipV, 180

Camera Features

Camera protocol	ONVIF (Profile S)
Streaming protocol	RTSP/RTP
Auto Discovery	Automatically detects DeskCamera on the network
Multiple channels mode	Yes
Multiple cameras mode	Yes
ONVIF	Profile S
Manage streaming parameters	In Application or in NVR/VMS
ONVIF motion events	Triggered by mouse, keyboard, or custom events.
Streams	MainStream, SubStream, VMS/NVR defined
RTSP Authentication	Digest & Basic

Application Features

Silent Mode	Runs in the background, protected by password
Autostart	Autostart with Windows
RDP Support	Continues streaming even after RDP session disconnects
Idle Prevention	Prevention Prevents PC from entering idle state
Media sources constructor	Custom sources: screen, app, RTSP/HTTP
Remote Deployment	Supports remote installation & offline installation
Client Indication	Real-time indication of connected VMS/NVR clients
Media Testing	Test media sources before streaming

Audio Features:

Audio streaming	Microphone or System audio
Audio-only streams	Available

DeskCamera Licensing

DeskCamera software offers **two types of licenses:**
• **Perpetual PC-locked license**
• **Subscription floating license**

1. Perpetual PC-Locked License

Type: Non-expiring, lifetime software updates & support
Hardware Tied: Linked to specific PC hardware upon activation
Reinstallation: Same license can be reused after reinstalling DeskCamera or Windows on the same PC
New PC Use: Requires purchasing a new license or requesting a transfer

2. Subscription Floating License

Type: Subscription-based, includes software updates & support
Usage: Usable on unlimited PCs, limited by the simultaneous active 'Capacity'
Example: If the license capacity is 10, up to 10 PCs can use the license simultaneously. When one PC disconnects, the seat becomes available for another PC.

License Transfer Options for Perpetual PC-Locked License:

The Perpetual PC-locked License is tied to a specific PC's hardware during the activation process and can only be used on the computer where it was initially activated.

License Transfer:
If the license needs to be used on another PC, the user may request a license transfer. To request a transfer, the user must contact DeskCamera support or submit a helpdesk ticket.

Available Transfer Options:
1. Free Transfer:
• Available **within the first 6 months** after the initial license activation.

2. Paid Transfer:
• If **more than 6 months** have passed since the license activation, the user may request a paid transfer.
• In this case, the old license is voided, and a replacement license is provided with a 50% discount.