ACTION!

User Manual

About Action!

Action! - Record everything

Thank you for choosing Action! product. Action! allows real-time recording/capture and live streaming of Windows desktop in a superb HD video quality. With Action! you can benchmark and display game framerates, record or stream your gameplay, add live audio commentary to create high quality tutorials, remotely control your PC with mobile devices and more!

Action! is compact, stylish and user friendly. With outstanding performance and sleek design Action! defines a new standard of user experience for real-time gameplay and desktop recording and streaming software.

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MINIMUM SYSTEM REQUIREMENTS

OPERATING SYSTEM

Windows Vista®, Windows 7, Windows 8, Windows 8.1, Windows 10

DirectX® and latest graphics card drivers

Running Action! requires administrator rights.

Action! LIVE Streaming and Remote Action! require internet

connection.

RAM MEMORY

512MB

GRAPHICS CARD REQUIREMENTS

Direct3D 9.0 compatible with Pixel Shader 2.0 support

SOUND CARD

DirectX® compatible

CPU

Intel® Celeron® 1.4GHz or equivalent processor

(SSE2 required)

RECOMMENDED SYSTEM REQUIREMENTS

OPERATING SYSTEM

Windows Vista®, Windows 7, Windows 8, Windows 8.1, Windows 10
DirectX® and latest graphics card drivers

*Windows Aero enabled for high quality desktop recording on
Windows Vista and Windows 7*

Running Action! requires administrator rights.
*Action! LIVE Streaming and Remote Action! require internet
connection.*

RAM MEMORY

1024MB (1GB)

GRAPHICS CARD REQUIREMENTS

Full Direct3D 10.0 compatible with Pixel Shader 4.0 support

SOUND CARD

DirectX® compatible

CPU

Intel® Core™ 2 Duo 2.0GHz or equivalent processor

**HARDWARE ACCELERATED VIDEO RECORDING
DIRECTLY TO MP4 FILE FORMAT / HD STREAMING AND REMOTE
CONTROL**

Intel® processor with Intel® Quick Sync Video support.
NVIDIA® graphics card with NVENC support.
AMD Radeon™ with AMD Video Codec Engine (VCE) support.

The latest graphics drivers.

**HARDWARE ACCELERATED VIDEO ENCODING
FOR EXPORT PROCESS**

Intel® Sandy Bridge processor with Intel® Quick Sync Video support.
NVIDIA® graphics card with NVENC support.
NVIDIA® graphics card with NVIDIA® CUDA support.

AMD Radeon™ with AMD Video Codec Engine (VCE) support

INSTALLATION

Action! Installer

Installation

Please remember to use Action! installation file from a trusted source (Mirillis website or box version disc). Run Action! installation file and follow the instructions on the screen. Action! installation should take a minute or two.

Trial version

After installation Action! will be available as a 30-day trial and all video recordings will include a watermark. Product activation is required to remove the watermark and continue using the application after trial period.

Video playback

Action! includes internal basic player dedicated for video recordings playback.

To playback Action! video recordings in AVI and MP4 file format you can also use one of Splash media players. Splash PRO and Splash PRO EX provide additional features like SmartSeek, Audio boost, Screen capture and more. All Splash products are available for download at Mirillis website: http://mirillis.com/en/downloads/

For more information please see chapter *Video and audio recordings playback*.

PRODUCT ACTIVATION
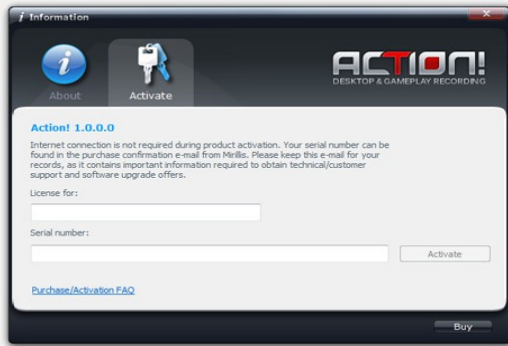
"About" window – **"Activate"** tab

Serial Number

A trial version of Action! can be activated to full version with a product serial number.

BOX VERSION

Serial number is included in the box.

ELECTRONIC VERSION

You can also purchase Action! product online to get a serial number. Valid e-mail address will be required for product purchase. Action! is available for purchase at Mirillis online store: http://mirillis.com/en/store/

Product activation

Click activation button [icon] to open *"About"* window, select *"Activate"* tab and enter your name/nickname and product serial number. Please make sure that you have entered the product serial number correctly. Click "*Activate"* button.

If you have any questions or problems with Action! activation please read Purchase/Activation FAQ on Mirillis website or contact us at support@mirillis.com

Remember to keep your serial number safe!

USER INTERFACE - ACTION! HUD (Head-up display)

About Action! HUD

The Action! user interface consists of 2 parts: **Action! window** and **HUD**. HUD is displayed when Action! is connected to your desktop, games or applications and provides following information:

1) current framerate
2) average framerate
3) 3D engine detected
4) status icon
5) progress bar (available for time limited recordings)

HUD display position

When Action! is running you can adjust HUD display position to your needs with **F7** hotkey. Please note that changing HUD display position with a hotkey does not change "HUD Startup Position" setting. To change "HUD Startup Position" please check HUD display settings.

You can hide/show Action! HUD with **F6** hotkey.

Reset average framerate

Average framerate value can be easily reset with **F5** hotkey.

Status icons

Action! HUD status icons:

Normal status for active screen, game or application

Normal status for not active screen, game or application

Recording in progress

Recording paused

Time-Shift recording

Saving recording to a file

Benchmarking in progress

Capturing screenshot

Detecting framerate

Live streaming in progress

USER INTERFACE - ACTION! WINDOW OVERVIEW

Action! Tabs

1. Tabs panel

Action! tabs provide access to all Action! features: video recording, audio recording, benchmarking, capturing screenshots and Action! settings.

2. Options panel

All options available for selected tab.

Action! Manager

3. Output folder

Allows to change output folder for recordings, benchmarks and screenshots.

4. List of recordings, benchmarks and screenshots

All your recordings available in selected output folder.

5. Manager buttons

Buttons to manage your recordings.

USER INTERFACE - ACTION! TABS

Video Recording

Video Recording tab provides all basic options for desktop, gameplay and applications recording. Use the manager to play, delete or export your recordings.

Live Streaming

Live Streaming tab provides all options for Action! Live Streaming functionality. You can check streaming status and setup all streaming options using this tab.

Remote Action!

Remote Action! tab provides all information and options for remote PC access functionality.

Audio Recording

Audio Recording tab provides all options for audio recording functionality. With audio recordings manager you can play and delete your recordings.

Benchmarking

Benchmarking tab provides options for games and applications benchmarking. With the manager you can preview and delete benchmarks saved on your hard disk.

Capture Screenshots

Capture Screenshots tab provides options for capturing screenshots. Use the manager to preview and delete screenshots saved on your hard disk.

Settings

Settings tab provides access to several Action! settings categories:

Activation button

Use Activation button to activate Action! with product serial number.

About button

This button is available after product activation and provides basic information about activation status and current product version.

VIDEO RECORDING - INTRODUCTION

Video recording

With Action! you can record your gameplay, desktop and applications in a superb HD video quality.
For recorded video playback instructions please see chapter *Video and audio recordings playback* on page **20**.

Action! window
Video recording tab

Recordings manager

List of video recordings
List of recordings contains thumbnail view of all Action! video recordings from selected folder. Use mouse double click on a thumbnail to start selected video playback.

Manager buttons
The manager contains several buttons providing access to following actions:

- Delete selected recording(s)
- Start playback of selected video
- Open output folder
- Export selected video
- Export selected video to Facebook
- Export video to YouTube

Video recording options

File format
 AVI - very high video quality, using Mirillis proprietary FICV video codec
 MP4 - small file size, ready to upload to YouTube

Video size
This option allows to select output video recording resolution.

Video scalling does not work for OpenGL and DirectX 8 games and applications recording in AVI file format. In this cases video is recorded in *Original* game or application resolution.

VIDEO RECORDING - INTRODUCTION

Video framerate

Allows to select video recording framerate.

Recording mode

Recording modes available:

Games & applications

Active screen

Active desktop region

Time-Shift

With Time-Shift you will not lose any spectacular video game action! Please see **Time-Shift Recording** chapter page for more information.

Perfect Video Match Mode

Dedicated to record web videos and videos from various media players. Please see page **19** for more information.

Duration

Allows to limit your recording time to a specific duration.

Audio options

Audio options allow to enable or disable system audio recording, select to record multichannel or stereo audio and enable microphone to add live audio commentary during video recording.

Game view with Action! HUD
Games & applications mode

Action! HUD on desktop
Active screen mode
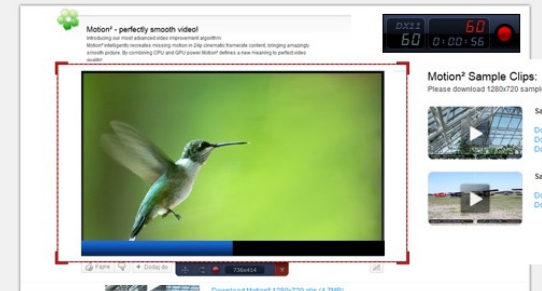
Action! HUD and region selection
Active desktop region mode

Introduction

Games & applications recording mode is dedicated to record gameplay and other DirectX or OpenGL applications. This mode allows for multiple simultaneous recordings. For the best performance it is recommended to perform only one recording at a time.

Action! window
Gameplay recording in progress

Recordings options

Select **Games & applications** recording mode to let Action! automatically select DirectX and OpenGL games and applications for recording. When this mode is selected Action! HUD will be displayed in all supported games and applications.

Game view with Action! HUD
Gameplay recording in progress

Start recording

Application recording button is not available for Games & applications recording mode. Use **F9** hotkey to start recording, stop video recording by pressing **F9** hotkey again. Please note that game or application must be active to start or stop video recording.

To pause / resume video recording use **Shift+F9** hotkey.

Action! HUD

If you do not want to include HUD in recordings please check *Do not record HUD in games and applications* option in Settings/HUD or hide HUD before recording start with **F6** hotkey.

TIME-SHIFT RECORDING

Action! Window with
Time-Shift option enabled

Introduction

Time-Shift option keeps recording all your current gameplay action in a short loop buffer providing possibility to instantly save your last gameplay actions to a file with a single hotkey.

With *Time-Shift* you will not lose any spectacular video game action!

*Please note that **Time-Shift** duration is limited, minimum duration is **10 seconds** and maximum duration is limited to **12 minutes**.*

Time-Shift recording

To use **Time-Shift**, switch Action! to *Games & applications* recording mode, enable **Time-Shift** option and select your preffered Time-Shift duration.

Run a game and check the Action! HUD status. **Time-Shift** recording is Indicated with the following icon:

To save **Time-Shift** recording to a file press a hotkey (**Left ALT + F9**).

*Please note that saving **Time-Shift** takes more time than saving standard video recording.*

ACTIVE SCREEN RECORDING

Introduction

Windows Aero desktop must be enabled to perform desktop recording. Active screen recording mode allows to record everything that happens on your screen: all applications, games, all windows and user actions. You can record live audio commentary and create tutorials with ease.

Action! window
Active screen recording in progress

Recordings options

To record your screen please select *Active screen* recording mode.

Select active screen

For multi-display setup Action! allows to select which screen will be recorded. Use **F8** hotkey to select active desktop.

Desktop view with Action! HUD
Active screen recording in progress

Start recording

Press start recording icon or press **F9** on keyboard to start screen recording. You can stop video recording by pressing recording icon or **F9** hotkey again.

To pause / resume video recording use **Shift+F9** hotkey.

Action! HUD

If you do not want to include Action! HUD in recordings please check *Hide HUD during desktop recording* option in Settings/HUD or hide HUD manually before recording start with **F6** hotkey.

ACTIVE DESKTOP REGION RECORDING

Important: Windows Aero desktop must be enabled to perform desktop recording.

Recordings options

To record desktop region please select *Active desktop region* recording mode. This mode switches Action! window to region recording mode. If you wish to switch back to main Action! window press *Close region recording mode* button .

Select active desktop

For multi-display setup Action! allows to select which desktop region will be recorded. Use **F8** hotkey to select active screen/desktop.

Select region

Use mouse to adjust your region size and position. Click and hold mouse button on icon to move region. You can precisely control region size and position with keyboard: use **arrows** to move region, use **SHIFT + arrows** to resize region.

Green region frame indicates that region is accepted and Action! is ready to start recording. Grey frame indicates that current region cannot be recorded. Region cannot be recorded when it includes area of 2 different desktops.
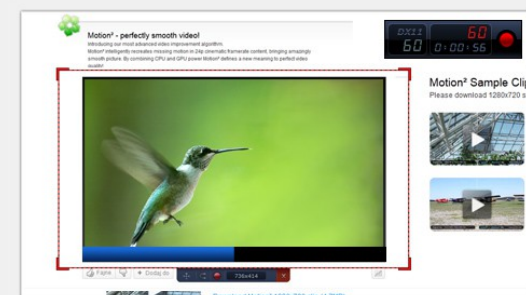
Enable *Snap to windows* option to easily fit region to applications windows.

Start recording

Press start recording icon or press **F9** on keyboard to start desktop region video recording. Region frame turns red during recording process.

Capture screenshots

Press capture screenshot icon or press **F12** on keyboard .

Desktop region recording in progress

SELECTED APPLICATIONS WINDOW RECORDING

Introduction

With **Active desktop region** recording mode you can easily record selected applications windows.

Recordings options

To record selected application window area please select **Active desktop region** recording mode.

This mode switches Action! window to region recording mode. If you wish to switch back to main Action! window press **Close region recording mode** button [x] .

Selecting window

In region recording mode please enable **Snap to windows** option (hotkey: **S**) to easily fit region to applications windows.

Move mouse cursor over applications windows and region will automatically match application window area. If you need to adjust your region size or position click or press **S** hotkey to disable **Snap to windows** and adjust your region using mouse or keyboard.

Start recording

Press start recording icon or press **F9** on keyboard to start active desktop region video recording. Region frame turns red during recording process. You can stop video recording by pressing recording icon or **F9** hotkey again.

Selecting application window
wtih **Snap to window** option enabled

WEB VIDEOS RECORDING IN 60FPS

Introduction

With Action! you can record videos from websites and other applications in real-time. Action! allows to record videos from defined display region, selected application window or in fullscreen mode.

For the best results it is recommended to record videos in following ways:
- with *Video framerate* set to 60 in Action! *Video Recording* settings
- with *Video framerate* set to original source video framerate

Recordings options

Video framerate
To record videos with 60fps please set *Video framerate* value to 60.

Recording mode
For fullscreen video recording it is recommended to set *Active screen* mode.
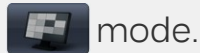
If source video is not played in fullscreen please change recording mode to *Active desktop region* and adjust your region size and position to fit the source video picture.
Enable *Snap to windows* option (hotkey: **S**) to easily fit your region to source video area.

Start recording

Start source video playback and press start recording icon or press **F9** on keyboard to start desktop video recording. You can stop video recording by pressing recording icon or **F9** hotkey again.
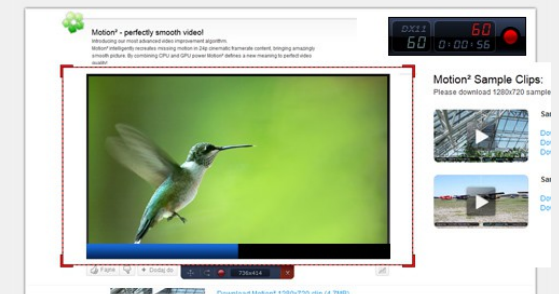
Recording video in *Active desktop region* recording mode

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WEB VIDEOS RECORDING WITH PERFECT VIDEO MATCH MODE

Introduction

Perfect Video Match mode is dedicated to record web videos or videos from various media players and it provides a perfect match of recorded framerate with source video framerate. To enable *Perfect Video Match* mode switch to *Active screen* mode.

Detecting framerate

To use *Perfect Video Match* mode it is required to set a proper *Video framerate* in Video recording options, the framerate value must match source video framerate. If you do not know the original video framerate you can detect it with Action!.

To detect source video framerate change recording mode to *Active desktop region* and adjust your region size and position to include source video picture only. Start source video playback and press **Ctrl+F9** hotkey to start framerate detection.
Action! HUD status icon will change and HUD will display detected framerate. Press **Ctrl+F9** hotkey again to stop framerate detection.

 Detecting framerate

Recordings options

Video framerate
Set video framerate to source video framerate and make sure to enable *Perfect Video Match* mode.

Recording mode
 For fullscreen web videos recording select *Active screen* mode.
 If source web video is not played in fullscreen change recording mode to *Active desktop region* and adjust your region size and position to fit the source video picture.
 For media players video recording set *Games & applications* mode.

Start recording

Start source video playback and press start recording icon or press **F9** on your keyboard to start desktop video recording. You can stop video recording by pressing recording icon or **F9** hotkey again.

ADDING WEBCAMS TO VIDEO RECORDINGS

Action! Webcam Settings

Action! allows to add picture from webcams and other capturing devices to all real-time gameplay and desktop/screen recordings.

Open **Webcam Settings** to setup webcam recording. Webcam settings allow to select webcam device and set webcam picture position and size in final video recording.

Adding webcam is very easy with user friendly options and webcam preview screen. To open webcam preview screen, please use the following button:

You can also enable real-time recorded wecam preview for Action! HUD. To enable webcam preview in HUD please go to Action! HUD Settings.

LIVE STREAMING INTRODUCTION

Action! Live Information tab

Introduction

You can not only record everything on your PC but you can also share it online with LIVE Streaming functionality. With Action! you can easily live stream your gameplays or desktop activity to streaming services like Twitch.TV or YouTube.

Trial version lets you test LIVE Streaming functionality for free, but Action! watermark will be added to all streamed videos.

Watermark will be removed after activating Action! with serial number.

Enable Action! LIVE Streaming
To enable LIVE Streaming open Action! LIVE tab and check Enable Action! LIVE Streaming option.

Please note that LIVE Streaming option enabled forces Action! to record all videos in MP4 file format with settings from Action! LIVE Streaming Settings tab.

LIVE STREAMING - BROADCAST SETTINGS

Action! Live Streaming settings

Streaming settings

Record streamed video to disk
This option allows to save streamed videos to the local hard disk in MP4 format.

Auto-reconnect
Allows to automatically restore lost connection with streaming service.

Video size
You can select broadcasted video size, please note that maximum video size available for LIVE streaming is 1080p.

Framerate & Bitrate
Options allow to select video framerate and bitrate.

Broadcast settings

This options allow to setup streaming service where your live stream videos will be published. You can select one from several popular predefined streaming services or setup your custom service.

Learn more with Action! LIVE Streaming tutorials:

http://mirillis.com/en/products/tutorials/action_tutorials_live_streaming.htm

LIVE STREAMING
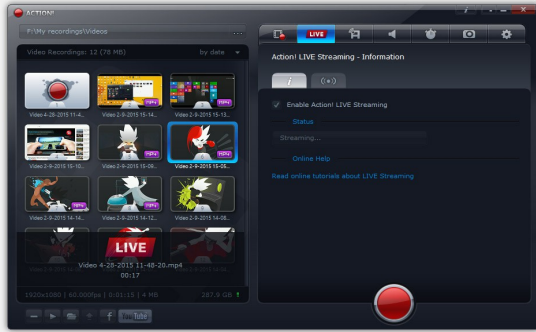
Action! Live Streaming in progress

Start streaming

Setup all streaming options and make sure that "Enable Action! Live Streaming" option is checked.

Press start streaming icon 🔴 or press **F9** on keyboard to start live streaming. You can stop streaming by pressing recording icon or **F9** hotkey again.

Application recording button 🔴 is not available for Games & applications recording mode. Use **F9** hotkey to start streaming and stop video streaming by pressing **F9** hotkey again. Please note that game or application must be active to start or stop video streaming.

Action! HUD

After live streaming start HUD status changes showing that live streaming is in progress:

HUD displays LIVE status, 3D engine detected, current framerate and streaming duration. Please note that for streaming Action! HUD displays current framerate only. Average framerate is not displayed.

REMOTE ACTION!
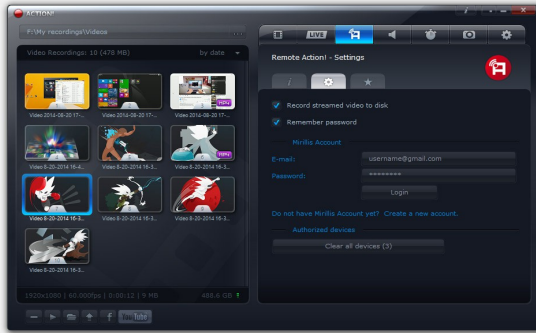
Remote Action! Settings

Introduction

With Remote Action! you can remotely acces your PC to control your Windows desktop, applications and to play your PC games from a mobile device or other PC.

To remotely control your PC it is required to install Remote Action! app on your mobile device or PC and to create a Mirillis Account.

If you do not have Mirillis account yet please click **Create a new account** link in Remote Action! tab.

Enable Remote Action!

To enable remote PC access functionality open Remote Action! tab and check Enable Remote Action! option. Please note that Action! restart is required to apply changes for this setting.

Subscriptions

Action! Trial version or active subscription is required to use Remote Action! Functionality. To purchase Remote Action! subscription please run Action! and open Remote Action! tab. Click **Extend subscription time** or **Buy subscription** link to open Mirillis online store website.

REMOTE ACTION! FAVORITES

Remote Action! Favorites tab

Favorites tab

Remote Action! Favorites tab is available only when you are logged in. To check your Remote Action! login status open Remote Action! Information tab.

With Favorites tab you can easily create your favorite PC games and applications lists.

To add a new game or application please click **Add a new item** button and browse for your application or shortcut.

You can access this favorite lists with Remote Action! app on your Android mobile device to quickly run your games or apps.
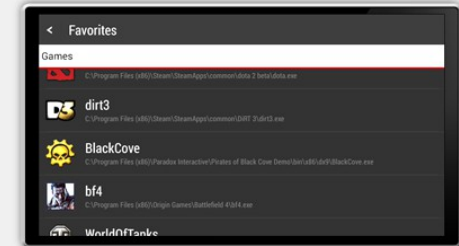
Favorites in Remote Action! Android mobile app

Action! RCU

Action! RCU mobile app

Introduction

Free Action! RCU app allows to control your Action! gameplay and screen recordings with Android mobile devices! Start, stop, pause video recordings, display framerate statistics, webcams preview and video recording time.

To install Action! RCU on your mobile device search for "Action! RCU" on Google Play.

Please note that your mobile device and PC must be connected to the same local network.

Enable Action! RCU

To enable Action! RCU please open Action! General settings, enable Action! RCU and restart Action!

Run Action! RCU app on your mobile device and select your PC from Action! RCU computer list.

Action! RCU app features:
• Start,stop and pause recordings
• Start and stop LIVE Streaming
• Display recorded webcams preview
• Display FPS information
• Display video recording time
• Display 3D engine
• Display free disk space

AUDIO RECORDING

Introduction

Action! can record everything you hear on your PC. Audio recording function allows to record music and audio sounds from games, applications or videos. Using microphone you can easily create podcasts.

Action! window
Audio recording in progress

Recording options

Duration
Enable this option when you want to record audio for a specific time duration.

Output format
You can select **WAV** or **MP4 Audio** output format. **MP4 Audio** format makes your recordings compact and ready to playback with modern audio playback devices.

Allow multi-channel audio recording
When enabled allows multi-channel audio recording (i.e. 5.1 audio).

Record silence
Activate this option to let Action! record audio even when there is no system sound playing.

Microphone
Enable microphone to add live audio commentary to your audio recordings.

Start recording

Press start recording icon   or press **F10** on keyboard to start audio recording. You can stop audio recording by pressing recording icon or **F10** hotkey again.

VIDEO & AUDIO RECORDINGS PLAYBACK

Video tab manager

Splash PRO EX playback

Video recordings playback

Action! includes internal fast player dedicated for video recordings playback.

Select a video recording and click play icon ▶ or use mouse double click on a thumbnail to start video recording playback.

To playback all Action! video recordings in AVI and MP4 format you can also use one of Splash media players. Splash PRO and Splash PRO EX provide additional features like SmartSeek, Audio boost, Screen capture and more.

All Splash products are available for download at Mirillis website:
http://mirillis.com/en/downloads/

Audio recordings playback

Select an audio recording and click play icon ▶ or use mouse double click on a thumbnail to start recording playback.

Audio recording will be played using system default application for WAV/M4A audio file format.

Introduction

Action! allows to benchmark desktop and all supported DirectX or OpenGL games and applications performance. Benchmark results are saved in popular CSV file format.

Action! window
Benchmarking in progress...

Benchmark files

Select a benchmark file in manager list and click open icon 👁 or use mouse double click on a thumbnail to view selected benchmark results. Benchmark file will be opened using system default application for CSV file format.

Benchmarking options

Duration
Enable this option when you want to record benchmark results for a specific duration.

Start benchmarking

Press start benchmarking icon 🔵 or press **F11** on keyboard to start recording benchmark results. You can stop benchmarking by pressing icon 🔵 or **F11** hotkey again.

Benchmark button is not available for *Games & applications* recording mode selected in Video recordings tab. Please note that in this mode game or application must be active to start or stop benchmarking using a hotkey.

CAPTURE SCREENSHOTS

Introduction

Action! allows to capture screenshots of your desktop and all supported DirectX or OpenGL games and applications.
Select a screenshot in manager list and click open icon or use mouse double click on a thumbnail to view selected screenshot.

Action! window
Capture screenshots tab

Capture options

File format
Allows to select one of available output file formats: BMP, PNG, JPG.

Current Action! version provides only BMP format for screenshots in *Games and applications* mode.

Screenshot area
For multi-display setups it is possible to select to capture a screenshot from all screens or from a single screen only. This option is available for *Active screen* recording mode selected in Video Recording tab.

Capture screenshot

Press capture screenshot button or press **F12** on your keyboard to capture a screenshot.

Capture screenshot button is not available for *Games & applications* recording mode selected in Video recordings tab. Use **F12** hotkey to capture screenshots of your active games and applications.

EXPORT RECORDINGS - INTRODUCTION

Export window - Export settings

Introduction

Action! allows to export your video recordings to all popular formats and devices. Your video recordings are exported to **MP4** file format and the exported video is coded using **H.264/AVC** video compression standard, exported audio is coded using **AAC** compression standard (supported outputs are Stereo or 5.1).

Export window

To start exporting select a recording on your recordings list and click *Export* button . To hide all Action! windows click "hide" icon in the top right corner of the Export window. Use "close" icon to close the window, using "close" icon will stop all exporting or uploading processes.

Exporting to YouTube and Facebook

YouTube and Facebook export profiles contain 2 settings pages (export and upload settings) and automatically upload the exported file after export process is completed. Use buttons to navigate through YouTube profile settings pages.

EXPORT RECORDINGS - SETTINGS

Export window - Export in progress

Output profile

Action! output profiles contain popular video resolutions and pre-defined profiles for popular devices providing fast and easy exporting setup.

Video quality

Available video quality settings:

Fast

Normal

High

Using video quality settings you can also change the output video resolution for pre-defined profiles.

Video bitrate

Action! default video bitrate setting provides high quality video. You can lower the video bitrate setting to create smaller files or set higher bitrate for better video quality.

Audio Track and Output

With audio settings you can disable audio output.

Output size

Shows the estimated size of exported file. Green color indicates that the exported file will be smaller than the input file, red color indicates that the exported file will be larger than the input file.

EXPORT RECORDINGS - EXPORT COMPLETED VIEW
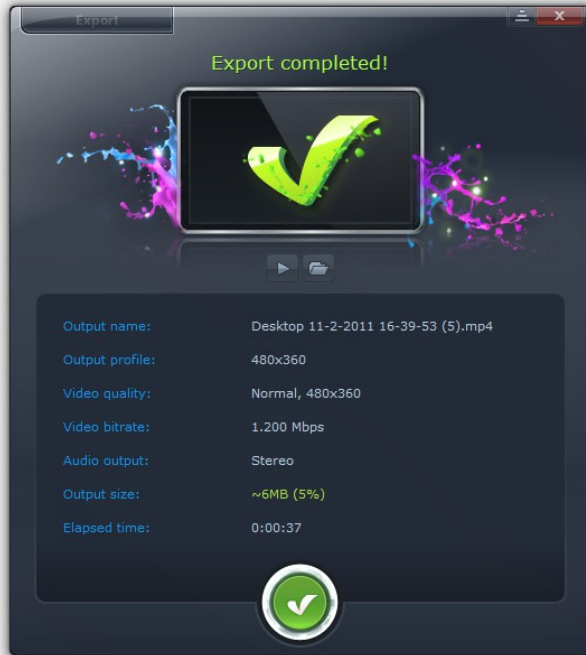
Export completed

Hardware acceleration

The green GPU icon [GPU] is displayed whenever hardware acceleration for video encoding is used during exporting.

Export completed

Export completed view contains short information about exported file and icons providing fast access to popular actions:

PLAY
Starts playback of the exported file.

OPEN FOLDER
Opens the folder where the exported file has been saved.

EXPORTING TO YOUTUBE
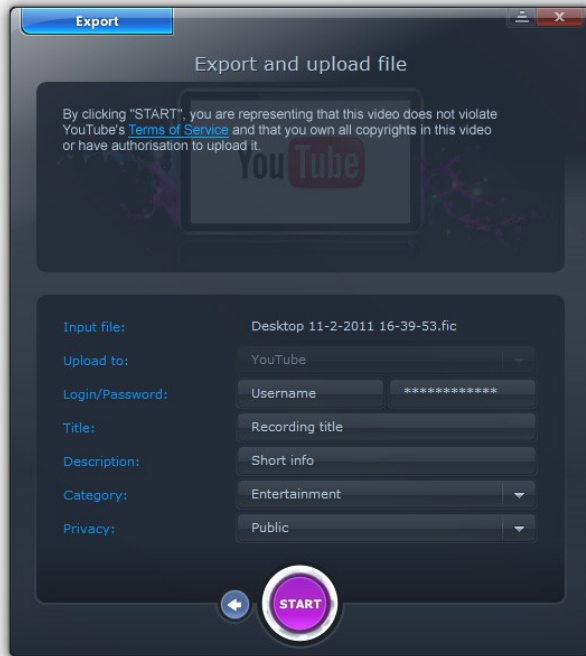
YouTube upload setup

YouTube profile

To export and upload video recording to YouTube please select a recording in main Action! window and click [You Tube] button. In Export window YouTube profile will be automatically selected, click next button [→] to show YouTube settings page.

Privacy

Public (anyone can search for and view - recommended)

Unlisted - means that only people who know the link to the video can view it. The video will not appear in any of YouTube's public spaces, such as search results, your channel, or the Browse page, but the link can be shared with anyone.

Private (only specific YouTube users can view)

Please read the Terms of Use displayed at the top of the window and press START button to upload a file to the selected service.

EXPORTING TO FACEBOOK
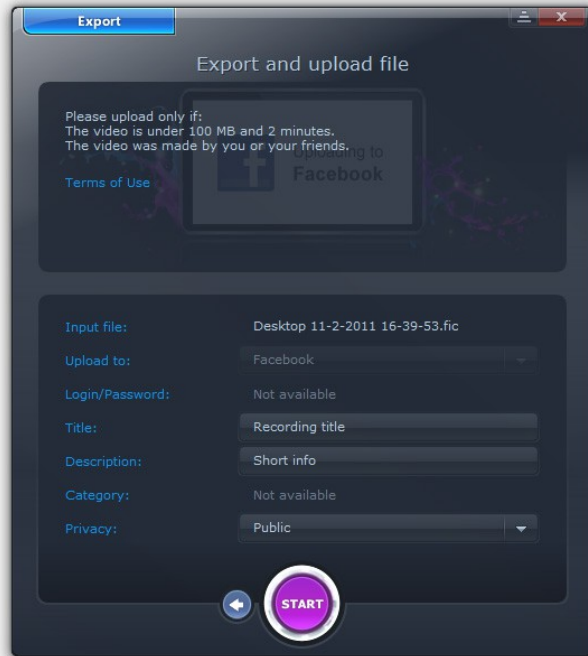
Facebook upload setup

Facebook profile

To export and upload video recording to Facebook please select a recording in main Action! window and click [f] button. In Export window Facebook profile will be automatically selected, click next button [→] to show Facebook settings page.

Privacy controls:

Public (Everyone)
Private
Friends Only
Friends of Friends

Please read the Terms of Use displayed at the top of the window and press START button to login to Facebook and upload a file.

Facebook Login

Facebook Login window appears after pressing START button. Login to your Facebook account to start the uploading process.

Login is required only once per each Action! startup.

You may be asked for SplashUploader authorization when using Action! for the first time.

GENERAL SETTINGS

Action! General settings

LANGUAGE

Allows to change Action! user interface language.

CHECK FOR UPDATES

This option enables automatic updates. Product update availability is checked on application start and application will ask you to install the update when it is available.

START APPLICATION MINIMIZED TO TRAY

When you are familiar with hotkeys you can select this option to start Action! minimized to tray. To show Action! window double click Action! tray icon.

HIDE ACTION! WINDOW ON DESKTOP RECORDING START

Select this option to hide Action! window to tray mode before desktop recording starts.

SHOW ACTION! WINDOW WHEN DESKTOP RECORDING IS FINISHED

This option shows Action! window when desktop recording is finished. You can immediately start playback, delete recordings or export and upload recordings to popular devices, YouTube or Facebook.

RUN ACTION! ON WINDOWS START

This option allows to automatically run Action! on system startup.

FORCE 30BPP DESKTOP RECORDING

Use this option only on systems with 30bpp graphics cards and displays. Please note that using this option on not 30bpp system may reduce video recording performance.

ENABLE ACTION! RCU

Enable this option to remotely control recordings with free Action! RCU app.

VIDEO RECORDING SETTINGS

Action! Video recording settings

VIDEO QUALITY

Allows to select output video quality for your recordings. Select "Low" quality to reduce output file size and increase recording performance.

BITRATE (MP4)

Allows to control output MP4 recordings video bitrate. Set lower bitrate values to reduce MP4 output file size.

INPUT RANGE

For most video recordings it is recommended to use wide input range (0-255). However in some cases (in example web videos or fullscreen videos recording) narrow input range (16-235) may give a better result.

USE MULTICORE ENCODING

Action! uses an optimized, multicore video encoding algorithm for video recording. In some cases single core encoding may result in better performance. Disable this option to let Action! encode video (during recording) utilizing only a single CPU core.

RECORD MOUSE CURSOR

This option adds mouse cursor to recorded video.

VISUALIZE MOUSE CLICKS

This option helps to create fantastic and clear tutorials by adding animated mouse clicks visualizations to recorded video. *Mouse click visualizations are only available for desktop recordings in original video size.*

OVERLAY GRAPHICS SETTINGS

Overlay graphics settings allow to add custom logo and other overlay graphics to recorded video.

Supported file formats: **BMP, JPG, PNG (with alpha channel)**
Maximum supported input graphics resolution is **1920x1200**.

WEBCAM SETTINGS

Action! Webcam Settings

Webcam settings allow to include picture from webcam in gameplay and desktop recordings.

Preview screen button , available at the bottom of the settings page, opens webcam preview screen showing webcam position and size in video recording.

RECORDING MODE
This setting allows to:
- disable webcam recording
- enable webcam recording
- enable option to record webcams on button down (default hotkey: **F4**)
- enable and disable webcam recording on button down (default hotkey: **F4**)

WEBCAM
This setting allows to select webcam or other device to be recorded.

Select **"Do not record"** option to disable webcam recording.

CAPTURE RESOLUTION
Allows to change webcam capture quality. Please note that higher resolution may impact overall recording performance.

POSITION
Allows to set webcam destination position.

VIDEO SIZE
This option allows to control size of the webcam picture in final video recording.

AUDIO SETTINGS

Action! Audio settings

MICROPHONE AUDIO DEVICE

This setting allows to select recording device from list of system recording devices.

MICROPHONE VOLUME

This setting controls the microphone input volume.

RECORD MICROPHONE INTO SEPARATE AUDIO TRACK

This setting allows to record microphone commentary to separate audio track.

Recording microphone to separate audio track is not available with Action! LIVE Streaming enabled.

SYSTEM SOUNDS AUDIO DEVICE

This setting allows to select audio device from list of system playback devices.

AUDIO BALANCE

Audio balance controls the balance between microphone and system sounds. Adjust this option to record clear live audio commentary.

Click icon to reset microphone volume and audio balance to default settings.

AAC BITRATE

This option is used for M4A audio recordings, MP4 video recordings and video recordings export.

HUD SETTINGS

Action! HUD settings

HIDE HUD DURING DESKTOP RECORDING

Enable this option when you do not want HUD to be included in your desktop recordings. With this option enabled Action! hides HUD automatically when desktop recording starts.

DO NOT RECORD HUD IN GAMES & APPLICATIONS

With this option enabled Action! will display HUD in games and applications, but HUD will not be included in your recordings.

HIDE HUD ON ACTION! STARTUP

Enable this option to automatically hide HUD on every Action! startup.

HUD STARTUP POSITION

This setting lets you decide where Action! displays HUD on startup.

When Action! is running you can change HUD display position with a hotkey (default hotkey: **F7**). Please note that changing HUD display position with a hotkey does not change "HUD Startup Position" setting.

SHOW RECORDED WEBCAMS PREVIEW

With this option you can enable recorded webcam preview in Action! HUD and Action! RCU app.

EXPORT SETTINGS

Action! Export settings

HARDWARE ACCELERATION

Use hardware acceleration for video encoding to speed up exporting process and lower CPU consumption.

EXPORT MOUSE CURSOR

With this option enabled Action! will include recorded mouse cursor in exported video.

UPLOAD SETTINGS

Selecting *Remember password* option will securely store (in encrypted form) your YouTube account password in Action! configuration files.

Automatically split files into parts

Enable this option to split your recordings into parts and upload parts separately to meet video duration restrictions on your YouTube account.

EXPORT OUTPUT FOLDER

This option lets you change the destination folder for exported files.

HOTKEYS SETTINGS

Action! Hotkeys settings

HOTKEYS

To change a hotkey move your mouse cursor over specific hotkey field and press keyboard buttons to enter new hotkey.

Please press [→] button to show next hotkeys settings page.

Hotkeys provide fast access for the most important Action! features:
- Start / Stop video recording
- Start / Stop audio recording
- Start / Stop Benchmarking
- Capture Screenshots
- Reset average framerate
- Show / Hide HUD panel
- Change HUD display position
- Change active desktop
- Enable microphone recording
- Detect framerate
- Pause/Resume video recording
- Cancel Recording
- Add Bookmark
- Mark recording as favorite
- Record webcam

DEFAULT HOTKEYS

All default hotkeys are available in the next section *Default hotkeys.*

DEFAULT HOTKEYS

BASIC ACTIONS

Start / Stop video recording or streaming	F9
Start / Stop audio recording	F10
Start / Stop benchmarking	F11
Capture Screenshots	F12
Change active desktop	F8
Detect framerate	Ctrl+F9
Pause/resume video recording	Shift+F9
Save Time-Shift to a file	Left_Alt + F9
Cancel video recording	Ctrl+Del
Add bookmark	Ctrl+B
Mark video recording as favorite	Ctrl+F

ACTION! HUD

Reset average framerate	F5
Show / Hide FPS panel	F6
Change FPS panel position	F7

REGION CONTROL

Move region	Arrows
Resize region	Shift+Arrows
Snap to windows ON / OFF	S
Default region position and size	0

ACTION! PLAYER SHORTCUTS

Play/Pause	Space
Stop	S
Open Next File	PageDown, Ctrl+ArrowDown
Open Previous File	PageUp, Ctrl+ArrowUp
Frame by frame	F
Jump Forward	ArrowRight
Jump Backward	ArrowLeft
Jump Forward (x2)	Shift + ArrowRight
Jump Backward (x2)	Shift + ArrowLeft
Loop On/Off	L
Volume Up	+
Volume Down	-
Mute On/Off	M
Next audio track	A
Enter Full-screen	Enter
Exit Full-screen	Enter, Esc
Default Window Size	0
50%,100%, 200% Video Size	~,1,2
Show file information	i
Exit	Alt+F4, Shift+X

MICROPHONE / WEBCAM

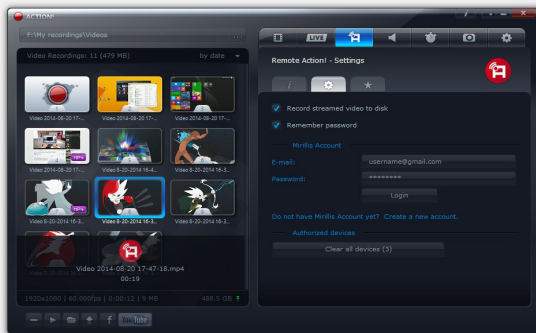|	
Enable microphone / webcam recording	F4

Settings

Record streamed video to disk
This option allows to save streamed videos to the local hard disk in MP4 format.

Remember password
Remembers your Mirillis Account password.

Mirillis Account

Enter your Mirillis acount username and password and press **Login.**

If you do not have Mirillis account yet please click **Create a new account** link.

Authorized devices

For security reasons every device that connects to your PC for the first time must be authorized.
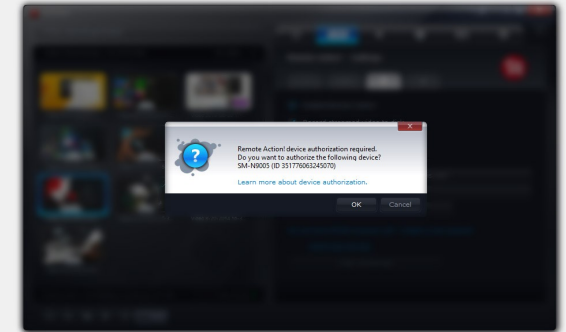
Device authorization popup

Remote Action! - connection in progress

Learn more about Remote Action! online:

http://mirillis.com/en/products/tutorials/action_tutorials_remote_control.html

OPERATING SYSTEMS RESTRICTIONS

Operating systems and hardware configurations restrictions.

Windows Vista®, Windows 7, Windows 8 / 8.1 / 10

DESKTOP RECORDING

Windows Aero is required for high quality recording on Windows Vista and Windows 7.

RECORDING WEB AND MEDIA PLAYERS VIDEOS

May not be available for copy protected HD content.

Windows® XP

Action! is not available for Windows® XP.

TROUBLESHOOTING

Performance

PERFORMANCE

If you experience any performance problems during recording or your recorded video is not smooth please try one of the following solutions:

• change recording file format to AVI if MP4 is selected

• disable graphics overlay and/or webcam recording

• reduce output video size

• reduce output video framerate

• hide FPS panel

• try with "Use multicore encoding" enabled and disabled

• make sure that Aero is enabled for Windows Vista and Windows 7 desktop recording

MULTIDISPLAY PERFORMANCE

If you experience any performance problems on multidisplay setup and the above general performance solutions do not work please try the following solution:

• disable/disconnect one (or more) display device(s).

Recording

GAMES & APPLICATIONS RECORDING

If you experience any problems with games and applications recording please try to run a game or application in windowed mode and try recording with *Active desktop region* mode.

TECHNICAL AND CUSTOMER SUPPORT

Purchase/Activation FAQ

If you have any questions or problems with Action! purchase or activation, please read the product purchase and activation FAQ or contact us if you do not find an answer for your problem/question.

Pruchase/ Activation FAQ page:

http://www.mirillis.com/en/support/purchase_faq.html

Technical Support

If you have any questions or problems with Action! please read Action! FAQ or contact us if you do not find an answer for your problem/question.

Action! FAQ page:

http://mirillis.com/en/products/faq/action_faq_general_questions.html

Mirillis Forum

Join Mirillis community and discuss about Action! and other Mirillis products. If you have a problem or questions not answered on FAQ pages you may find an answer on the forum. Feel free to share with us your experience, ideas and suggestions.

Mirillis Forum:

http://www.mirillis.com/forum/

Contact

http://www.mirillis.com/en/company/contact.html