



InvariMatch manual

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InvariMatch

InvariMatch is a tool for matching of video content that compares video fragments by separate images. This way gives a lot of advantages over the other methods because system can reliably find small coincident fragments (started from 1 seconds long) even if video was modified and able to take apart mixed video that was compiled from several original sources ([whitepaper](#)).

Operations

The database of source video is used for video matching process. Any user can create his or her a source video set for matching of video content during scanning process. This set can be shared or hidden for other users (it can be switched [at the profile](#)).

- Select "Operations / ADD/SCAN" tab to **add source video** to the search system.

- Input URL to a video file and press "Add" button (click on vertical arrow to upload a local video file from your computer).
- You can see the list of source video at "Operations / SOURCE VIDEO".

Operations

Film title	ID	Length	
[>] #01 Galaxy Fold broll product shots 2019-06-05 16:37:24	32736	0:01:13	Remove
[>] #01 Design Ambient 2019-06-12 18:17:45	32737	0:00:49	Remove

- Select "Operations / ADD/SCAN" tab and input URL to a video file then press "Scan" button to start **scanning process**. The matched video fragments will have been indicated by the end of scanning process.

Scan chart

The scan chart is a tool for batch scanning of video URL lists with InvariMatch. The database of source video should be prepared **before start** of scanning process.

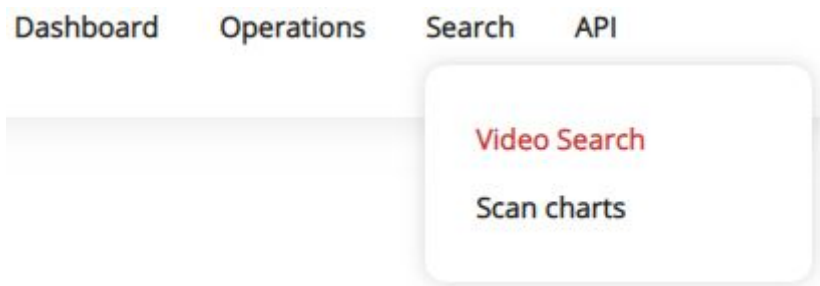
The scan chart can be used for tracking brand promotion in video blogs inside all popular social networks.

Bloggers use different parts of the official press materials in their videos. InvariMatch can find even super small matching fragments and able to take apart mixed video that was compiled from several sources. Such statistics can provide a clear insight into how the brand materials were used during a promotion campaign.

Scan chart quick guide

The **scan chart** is a list of URLs for scanning. Follow instructions to start the scanning process and check results:

- Select "Search / Video Search" from the main menu to create a new **scan chart**.



- Choose a **search engine** (Bing, YouTube, Google) and input the **keywords**, then press the "Search" button.

Video Search

KEYWORDS

BING YOUTUBE GOOGLE

Language

RELEVANCE LANGUAGE

Region

COUNTRY

Length of video




Short
 Medium
 Long
 All

- Now you can see several URLs that fit your request. Make sure that there are correct results and then **add** URLs to the **scan chart**.

Video Search

Searching videos for: Galaxy Fold

Total results: 105/990

#	Film title	Film length	Published	Publisher	Creator
1	 Galaxy Fold is FINALLY coming in September	00:05:30	2019-07-25 21:22:54	YouTube	CNET
2	 Samsung Galaxy Fold is FINALLY READY!?	00:06:18	2019-07-26 01:03:50	YouTube	Pocketnow
3	 Samsung Galaxy Fold Review: We Gotta Talk!	00:15:21	2019-04-26 23:50:23	YouTube	Marques Brownlee

- Input **URLs amount** number (it has different limit number depend on search engine)

Preparation to scanning

TOTAL URLS AVAILABLE: 1000

1000










ADD URLS






and press "Add URLs" button.

- Now you can see a **new** scan chart that is highlighted in green color because it has not been scanned yet. There are control buttons on the right side of the line.

Scan charts

Charts total 7

#	Chart title	Files total	Fragments total	Processed	Scanning	Date/Time	
1	Galaxy Fold - Bing	885				2019-08-26 10:19:35	    
2	갤럭시 노트 9, Galaxy Note 9 - Google, Bing, YouTube	1426	7	203:49:45	5:09:55	2019-07-02 23:55:04	    

- Use the first button to **add** some other keywords and URLs to this chart. 
- Use the second button to **download** scan results as CSV file 
- Use the third one to **start** scanning every URL in this chart. 
- Use the fourth button to **continue** scanning only unprocessed URLs. 
- Use the last one if you want to **delete** this scan chart. 

- Select "Search / Scan charts" from the main menu to see a scan chart list. Lines that are colored yellow indicate matches with source video that was added to the search system before. The column "**Fragments total**" shows a number of video fragments that have been matched.

Scan charts

Charts total 7

#	Chart title	Files total	Fragments total	Processed	Scanning	Date/Time	
1	Galaxy Fold - Bing	885				2019-08-26 10:19:35	
2	갤럭시 노트 9, Galaxy Note 9 - Google, Bing, YouTube	1426	7	203:49:45	5:09:55	2019-07-02 23:55:04	
3	갤럭시 폴드, Galaxy Fold - Google, Bing, YouTube	1315	70	108:49:58	3:55:13	2019-07-02 22:40:36	
4	갤럭시 폴드 - Google	300	18	10:31:51	0:15:59	2019-06-26 15:44:21	

- Follow links at the beginning of each **scan chart** to see scan details. There are lines at “**Scan details**” table colored yellow that indicate matches with source videos. The column “**Fragments**” shows a number of matched video fragments. The column “**Intersections %**” shows an amount of scanned content that matched to the source video in percentages.

Scan details

Films total 488

First page | 1 ... 100 ... 200 ... 300 ... 400 | Last page


#	Film title	Film length	Fragments	Intersections %
1	 Samsung reveals more about the Galaxy Fold	00:03:30	2	33.3
2	 삼성 갤럭시 폴드 완벽분석 (Samsung Galaxy fold Preview)	00:06:12	2	31.3
3	 Samsung Galaxy Fold - Hands On	00:03:44	1	30.4
4	 갤럭시폴드 오피셜 해즈온 영상 - 실물은 어떨까?	00:03:30	2	28.6


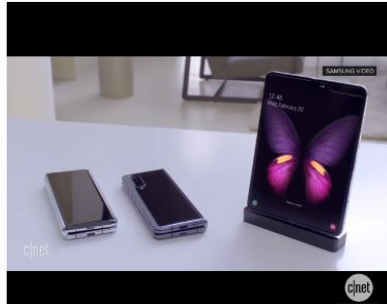
- Follow links at the beginning of each **scan details** line to see a visualization of matched video fragments at “**Scanning results**” page. You can see the total percentage of matches and a list of links to the original videos. If you click on the “+” in the list, you will see two media players. Press the Play button, and you'll see matching fragments on both players.




Scanning results

Scanned film: [Samsung reveals more about the Galaxy Fold](#)

Gathered fragments: 0, intersections: 33.3%


Film title	Length	Scan position	Film position	Fragment length
 #01 Galaxy Fold broll product shots 2019-06-05 16:37:24	0:01:13	0:00:27	0:00:02	0:00:37

How to create a long URL list

The number of URLs that can be get for one passage depend on a search engine (Bing - 1000, YouTube - 550, Google - 350 URLs). However you can add URLs from several search engine with different search parameters to the one **scan chart**. Also you can use several variations of the keywords for searching. Each URL that has already been added to the scan chart on a previous passage will be rejected as duplicate (chart's URLs are unique).

- Create a new **scan chart** ([look here for detail](#)).
- Click on button **add**  to continue adding URLs to this scan chart.

Video Search for Chart

#	Chart title	Files total	Fragments total	Processed	Scanning	Date/Time
1	Galaxy Fold - Bing	885				2019-08-26 10:19:35

KEYWORDS
Galaxy Fold

BING YOUTUBE GOOGLE

Language RELEVANCE LANGUAGE
English

Region COUNTRY
United States

Length of video
 Short
 Medium
 Long
 All

SEARCH

- Use for example parameter “**Length of video / Short**” for next URL extraction pass (click “Search” and then click “Add URLs” button to finalize extraction step).
- Do these steps several times with variations of the search engines, the search parameters and the keywords.

The number of URLs that scan chart contains can be grow up above 10 thousand in such way.

Profile

The profile allows you to manage your credential information and visibility of your source video dataset for other users.

Dashboard Operations Search API

Some user ▾

Profile

Logout

Profile

Some user [u34]

Details

EMAIL
some_email@gmail.com ✎

PASSWORD
Your Password ✎

STATUS
User

USER NAME
Some user [u34] ✎

Profile visibility The search results are private ✕

TURN ON SHARING

- Click on “Turn on sharing” to make visible your source video dataset to other users.

Profile visibility The search results are shared ✓

TURN OFF SHARING

- Click on “Turn off sharing” to hide your source video dataset from other users. This action also isolate you from datasets of other users.

Dashboard

The dashboard displays general information about your activity on InvariMatch search system.

Dashboard

You are the part of community

1 : 8 : 5 : 16

YEARS MONTHS DAYS HOURS

Period	Uploaded video	Total duration	Scanned video	Total duration
Last month	31	46:44:13	210456	1879:59:19
Last year	1638	1464:47:46	1605499	14526:51:21
Total	2885	2824:46:42	2152717	19656:53:54

Operation history [More →](#)

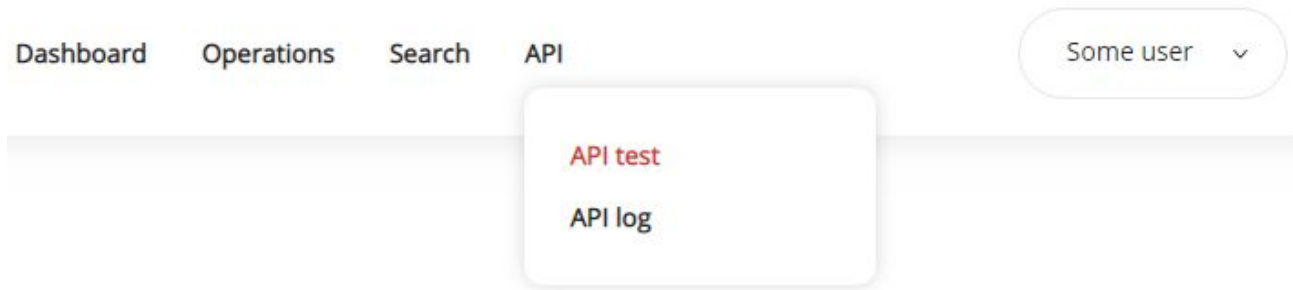
Operation		Result	Login	Date/Time
DELETE	> The film is deleted. youtube_QYh6mYIJG2Y_mp4	OK	Some user [u34]	2019-08-26 15:05:45
SCAN	youtube_QYh6mYIJG2Y_mp4 > Intersections with other video content were found: 99.6 %. https://www.youtube.com/watch?v=QYh6mYIJG2Y	OK	Some user [u34]	2019-08-26 15:05:26
ADD	Your video was successfully added to the searching system. https://www.youtube.com/watch?v=QYh6mYIJG2Y	OK	Some user [u34]	2019-08-26 15:03:25

Login history [More →](#)

Login	User IP	Date/Time
Some user [u34]	194.0.55.239	2019-08-26 15:07:38

API

The API section contains “API test” playground and “API log” viewer.



You can try to work with [InvariMatch API](#) on the page “API test”.

API test

- video.scan.start
- video.add.start
- get.status
- get.results
- video.list
- video.delete
- close
- login
- refresh_token
- logout

REQUEST

https://invarimatch.com/api.php?method=video.list&session_key=a2e85790b065105701dc3e5e141d5240

POST PARAMETERS

SESSION CONTEXT

session_key[a2e85790b065105701dc3e5e141d5240]

RESPONSE

SEND REQUEST

The page “API log” displays all interaction with InvariMatch API.

API log

FILTER

Results total 20

Request	Time performance ms	Login	Date/Time
refresh_token	0	Some user [u34]	2019-08-26 15:25:33
video.list	0.51	Some user [u34]	2019-08-26 15:05:48
video.delete	505.04	Some user [u34]	2019-08-26 15:05:45