# MXSERVER™
## VIDEO & PHOTO FORENSIC ANALYSIS SYSTEM

MXSERVER is a server-based face recognition system that processes vast amounts of video and photo collections quickly transforming files extracted from captured computers, cell phones, SIM cards and video surveillance systems into searchable resources. MXSERVER is enabling forensic examiners, investigators and security personnel to more effectively analyze large video and photo collections to discover, document and disseminate information of intelligence/investigative value.

Whether the requirement is to manage and distribute large media collections via the internet, analyze video, or screen and monitor video surveillance for "persons of interest" — analysts can use facial recognition to save time and discover new information by automatically finding, extracting and matching faces from very large media collections. Through its web-based design, MXSERVER makes secure information sharing possible by creating an environment in which agencies and analysts can collaborate and share their collective knowledge in real-time, from anywhere in the world. Videos and photos that have been stored in disparate and disconnected systems can now be searched via the web using facial recognition.

### CLOUD-ENABLED SCALABLE SOLUTION



Face Detection | Face Template Creation | Face Search | Video Transcoding

APPLICATIONS

Searchable Storage

### SCALABLE FOR THE FUTURE

MXSERVER is the only product on the market designed to handle Big Data (massive amounts of photos and videos) and has a proven track record of satisfied customers. MXSERVER utilizes a Cloud-based architecture for faster parallel processing of services. Cloud computing provides MXSERVER the ability to rapidly scale without the need for re-engineering. Agencies are able to grow their system as budgets allow. MXSERVER can be "right-sized" for your agency's data needs. Any organization that is collecting and analyzing vast amounts of videos and photos can benefit from this solution.

## QUICKLY PINPOINT KEY INTELLIGENCE

### Video and Photo Face Index
*Automated Face Finding and Extraction*



MXSERVER

**Face Search Results**

*Identify Persons*

*Find Linkages to Associates*

Digital Devices

Social Media

Pakistan

*Determine Geographic Location*

*Find other photos/videos*

## CONTACT US

**To find out more about Tygart and how our team of experienced professionals can help you meet your mission objectives, visit us at www.tygart.com or contact us at servicesdivision@tygart.com.**

# TYGART
### TECHNOLOGY

## KEY BENEFITS

### IMPROVE PRODUCTIVITY
MXSERVER saves countless man hours by automating essentially every feature needed to identify subjects of interest in videos and photos.

### ALGORITHM AGNOSTIC
MXSERVER utilizes best-of-breed algorithms that can be replaced as new and improved technology becomes available.

### EXPAND AVAILABLE INTELLIGENCE
MXSERVER extends an organization's intelligence base by transforming video and photo collections into searchable assets.

### USE CLOUD COMPUTING POWER
MXSERVER has the ability to scale as the agency's processing demands increase. This can be done incrementally to assist with budget constraints and unknown growth requirements.

### CUSTOMIZE FOR YOUR SPECIFIC NEEDS
MXSERVER can stand alone or be integrated into your current digital media and identification system.

### PROMOTE INFORMATION SHARING
MXSERVER includes secure web-based searching to allow agencies to share information with those individuals that have the need to know. The limit to information sharing is decided by the agency.

# APPLICATIONS

### Forensic Analysis
Today's computers and cell phones can contain hundreds of hours of video and tens of thousands of photographs. Video and photo content can be batch loaded into MXSERVER for automated forensic processing and analysis. MXSERVER automatically detects faces in videos and photographs, converting this content into a searchable repository.

### Video Surveillance Monitoring
Live digital video surveillance fed to MXSERVER provides a web-based watch list that alerts security personnel of threats. MXSERVER is helping protect key infrastructure around the world.

### Video & Photo Post-Event Analysis
After a terrorist attack or criminal act is committed, law enforcement's top priority is to identify the perpetrators quickly to protect the public. MXSERVER detects faces and indexes the content so it can be searched using facial recognition technology. MXSERVER displays a timeline view of extracted faces that can be quickly scanned and reviewed to locate suspicious subjects.

# FEATURES

### Auto Face Detection & Extraction
Automatically discover and extract faces in videos and photos. Filter and cluster faces, create templates and enable your video and photo repository to be biometrically searched.

### Advanced Search Methods
Search repository via face recognition and Google-style text search. Search-with-photo returns all videos and photos depicting the individual of interest.

### Watch List Searching
Create and manage a web-based watch list of persons of interest and automatically monitor videos and photos for instances of these persons.

### Efficiently Preview & Analyze Information
Multiple views enable individuals to quickly review the content of video and photo collections.
- Faces View
- Suggestions View
- Timeline View
- Link Diagram View

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**TYGART**
TECHNOLOGY