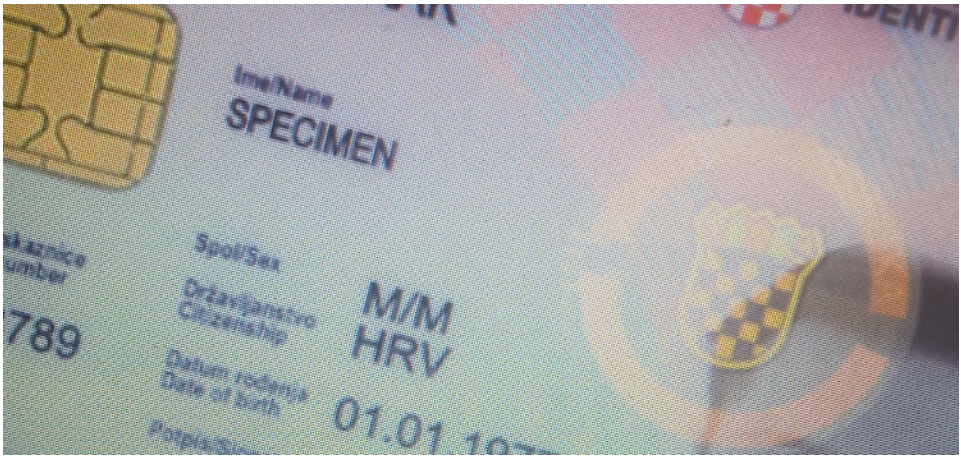


# VALIDA - Screen Detection

## AI-based screen recapture detection for fraud prevention

**VALIDA - Screen Detection assesses whether documents are presented directly in the capture phase of an online identity verification process, preventing fraud in KYC scenarios.**

VALIDA Screen Detection allows companies to offer an extra level of security and prevent fraud by detecting recaptured images of documents through AI-based forensic techniques. VALIDA Screen Detection verifies whether the captured image of a document actually corresponds to a photo of the document itself or to a photo of the document being displayed on a screen.

- ✔ **Fast, compatible with scenarios that require response in real time.**
- ✔ **Agnostic to the type, content and language of the document: VALIDA - Screen Detection analyses ID documents, passports, driving licences, etc.**
- ✔ **Adjustable working points and thresholds.**
- ✔ **Easy and fast integration via API.**

Carretera do Vilar, 56-58 · 36214 Vigo, Pontevedra, Spain
(+34) 986 120430 | valida.support@gradiant.org | www.gradiant.org

## Performance

### Accuracy

VALIDA Screen Detection performance has been measured on several datasets comprising real-world data. The achieved working points in terms of detection rate and FRR (False Rejection Rate) are:

| Detection rate | FRR |
|---|---|
| 79% | 0.1% |
| **87%** | **0.25%** |
| 90% | 0.5% |
| 93% | 1% |
| 94% | 2% |

### Time consumption

- ✔ For a reference machine Google Cloud c2-standard-4 (4 CPUs@3.8GHz, 16 GB RAM): **~0.6 s** for 8 Mpix image

## Integration

- ✔ **REST API with sample code for multiple platforms and languages: Shell, HTTP, JavaScript, Node.js, Ruby, Python, Java, and Go.**
- ✔ **SaaS / Dedicated Cloud / On-Premises dockerized Deployment.**

## Recommended deployment requirements

**OS:** Linux 64 bits (Ubuntu 18.04 or higher) with Docker installed.

**Hardware:** Google Cloud c2-standard-4[1] 4 CPUs@3.8GHz, 16 GB RAM) or equivalent machine.

[1] https://cloud.google.com/compute/docs/machine-types

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