



Design & Production

MTP.Co



Solar Traffic Sign

MTP Mobile Phone Violation Radar

Phone Violation Radar is a traffic enforcement camera that recognizes violator drivers who use cell phone while driving



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Description

Use of mobile phones was pinpointed as the leading cause of distraction among motorists who cause serious accidents, according to an online survey conducted by the Ministry of Interior recently.

In the survey, 71.4 per cent of the respondents chose the use of mobile phones while driving as the main reason drivers are being distracted on the roads while 17.7 per cent said it was attending to children. Eating and drinking were choosing as a distraction by 10.9 per cent of the respondents.

Distractions while driving claimed the lives of 59 people in 438 accidents across the UAE in 2018, according to the UAE traffic authorities.

Cell phone users are 5.36 times more likely to get into an accident than undistracted drivers.

Text messaging increases the risk of crash or near-crash by 23 times. Sending or reading a text message takes your eyes off the road for about 5 seconds, long enough to cover a football field while driving at 55 mph.

For reduce the rate of accident cause of restriction and making safer road and, we succeed to make the best detector system which is the **“Phone Violation Radar” for the first on the world.**

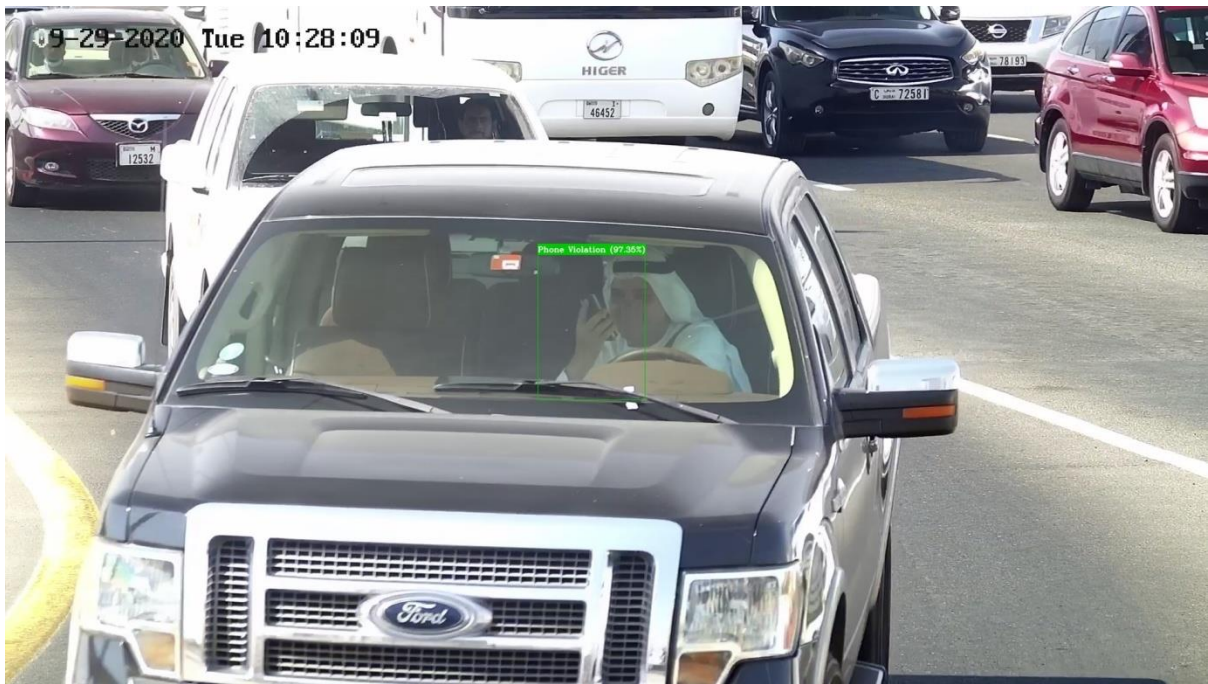
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Picture 1: Sample of Phone Violation

Phone Violation Radar Detector can be installed beside of road or over the road on the cantilever and detect violator cars who using mobile phone while driving.



Picture 2: MTP Phone Violation Radar

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Violation Captures and Data

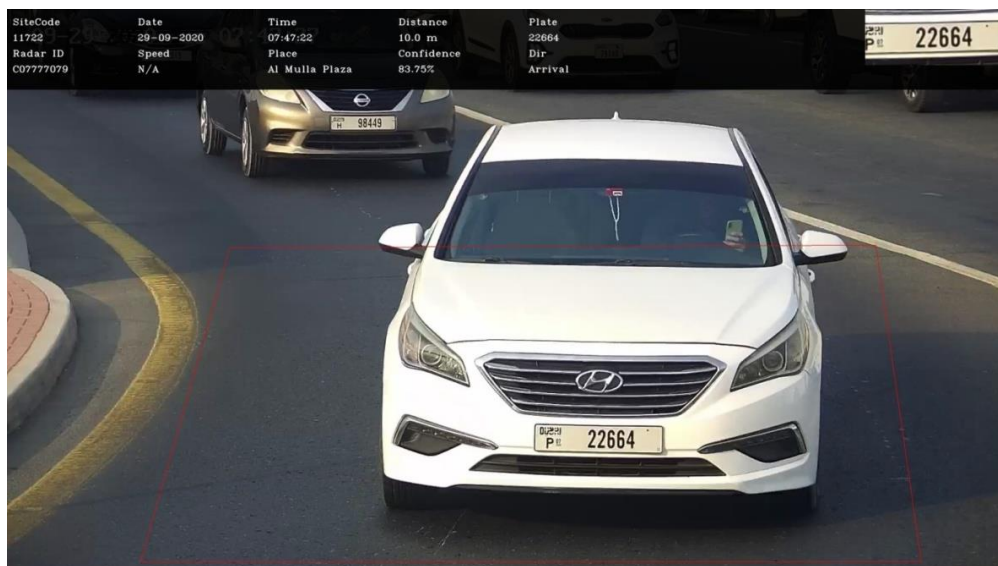
Phone Violation detector takes 2 captures and one video and one XML data file:

- One capture of violation time, which shows driver while using phone,



Picture 3: Capture of driver while using phone

- One capture of car with clear plate number, which use for Automatic Plate Reader (ANPR),



Picture 4: Capture of car with clear plate number

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- One video which covers a few seconds before violation time and a few second after violation time to be as a reference for police,



Picture 5: Video of driver and vehicle while using phone

- XML Data has information of Site Code, Location Place, date, Time, Radar ID, Plate Number,

```
Vendor="MTP" PrimaryType="MobilePhone" Name="11722-2020-09-24-10-50-55-001">
  - <Capture IncidentDateTime="2020-09-24 10:50:55.252">
    <VehicleClass Measured="Car"/>
    <Lane Index="0" Alias="RoadShoulder"/>
  </Capture>
  - <Devices>
    <Device Name="11722"/>
  </Devices>
  - <Files>
    <File Name="img_2020-09-24_10-50-55_1600930255_1.jpg"
      Group="Overview"/>
    <File Name="img_2020-09-24_10-50-55_1600930255_2.jpg"
      Group="VideoFrame"/>
    <File Name="video_2020-09-24_10-50-55_1600930255.avi" Group="Video"/>
  </Files>
  - <Locations>
    <Location Name="Test-HE" Direction="Approaching" Code="11722"
      Address="8"/>
  </Locations>
</Vendor>
```

Picture 6: Data Violation with xml format

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MTP Phone Violation Radar can save violation images and videos on USB flash memory or can send as online to police station via secured internet. Following you can see some of Phone Violation Captures for sample:



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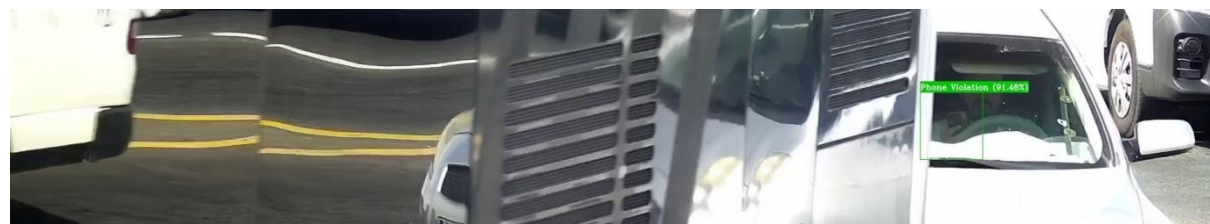
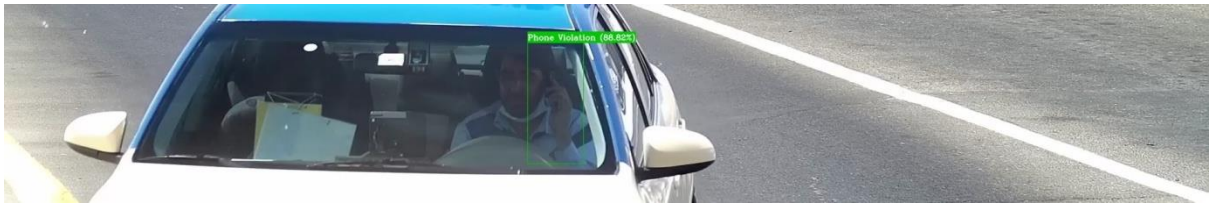
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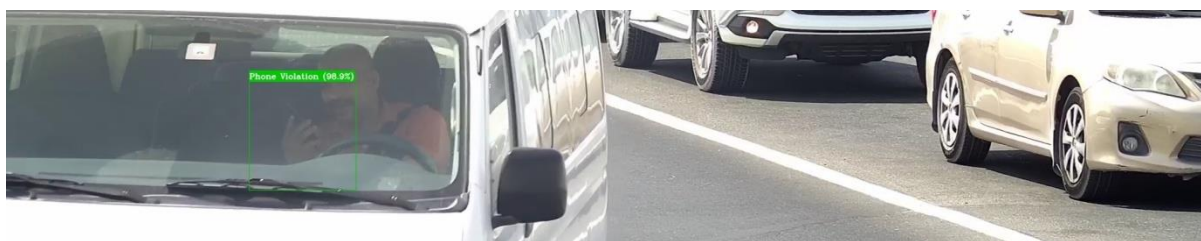
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Picture 7: Sample of Phone Violation Captures

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MTP ANPR

MTP Phone Violation Radar has own ANPR (Automatic Number Plate Reader) software as optional.

With ANPR, it reads registered plate number of violator car and sends it along with captures and video to police control room.



Picture 8: sample of ANPR

ANPR Status Bar

It is included:

- Site Code,
- Radar ID,
- Date and Time,
- Location Place,
- Plate Number,
- Picture of Plate

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PTZ Camera Specification

- . Power Supply 12-volt DC,18w (Max 7 watt for IR)
- . Operation conditions: -30°C to +60°C (-22 °F to +140°F)
- . Weight 2kg

Router

After detection violation, camera records two images and one video of violator vehicle and save it in Mini-PC.

These images and video along with its data like as date, hours and place can send to traffic control section of police office via one Router which is embedded in Phone Violation Detector. This Router has one Sim Card which provided by police. It can make secure connection between our violation detector and police office.

Another option is available with Phone Violation Detector and it is WIFI collection data.

Means police officer can collect all data and images and videos with stop beside of camera for a few minutes, so data and images and video will be transferred from Phone Violation Detector to police laptop with WIFI connection.

One more option is available also for collection data and it is USB memory. Mini-PC can save all of violation data and images and video on USB memory, so police officer only has to visit camera every day or couples of days and remove USB memory and put new USB memory.

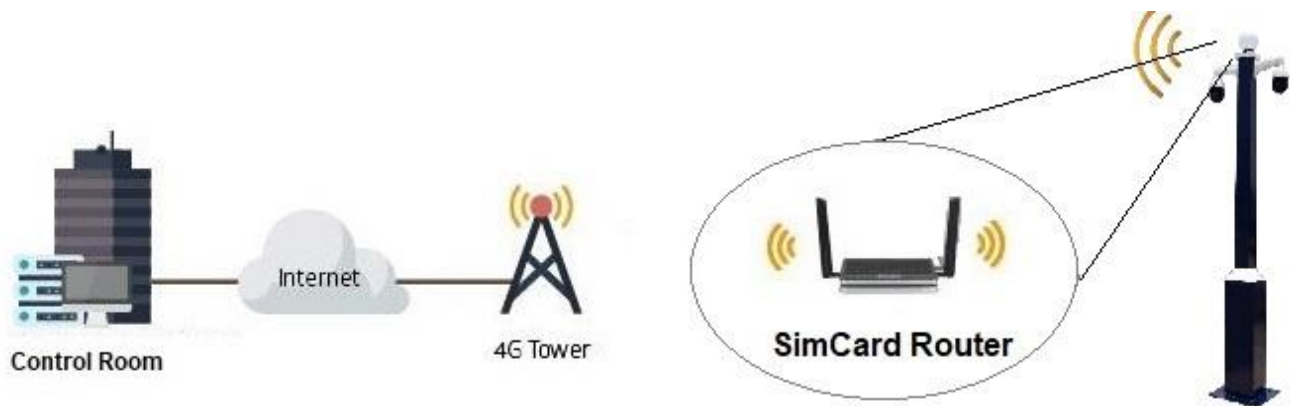
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Picture 9: Data transferring with Sim Card Router

So, violation data and images and videos in our violation detector can be collect with three following ways:

- **Collection data and images and videos by USB memory,**
- **Collection data and images and videos by WIFI system,**
- **Collection data and images and videos by Sim Card internet,**



Picture 10: Data Collection ways, USB memory, WIFI system, Sim Card internet

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Product is included:

- Four Cameras:
- mini-PC:
- MTP Software
- Router
- MTP ANPR
- Warning Light
- Solar Panel
- Battery
- Decorative Post

It can be installed beside of road or over the road on the cantilever, and set up software to be compatible with specific place as customer desired.



Picture 11: MTP Phone Violation Radar Detector

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Technical Specification

Mini PC	Recording full time video
Camera PTZ 2 pcs	Power Supply 12 Volt DC, 18w (Max 7watt for IR) Operation conditions: -30°C to +60°C (-22 °F to +140°F) Weight 2kg
Software	MTP Mobile Phone Violation Detector Software Image Processing Video Processing Detecting Phone Violation Saving Plate Number
ANPR	MTP Automatic Number Plate Reader
Router	Transferring Violation Data with Police Sim Card
Solar Panel	100 Watt
Charge Controller	Controlling Battery Charging and voltage
Battery	12 volt - 110 AH

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