Metrici LPR Plus engine – Datasheet

Features	
Architecture	distributed detection and recognition, free-flow or triggered
Recognition rate	more than 99.5%, using appropriate infrared light source and camera positioning
Recognition speed	less than 100ms/ plate at 200 pixels length
Plate number deviation	up to +/- 30 degrees in any direction
Number of recognized plates in each frame	unlimited number
Trigger type	over UDP from Metrici Multicontroller, Barix Barionet 50 LAN Controller, from Metrici LPR web interface, or from other Metrici engine, LPR, PPD, QR, AC, LC, etc
Chained trigger	yes, to other Metrici engine, LPR, PPD, QR, AC, LC, etc
Companion stream	yes
Vehicle tracking	yes, the direction of moving is determined by analyzing successive image frames
Vehicle classification	yes, 8 classes: Motorcycle, Car, Van, SUV/ Pickup, Bus, Truck, Tram, industrial and agriculture vehicles
Maker recognition	yes, more than 50 car makers, like: Audi, Alfa Romeo, BMW, etc
Color detection	yes, 11 colors calssification: white, black, gray, red, green, blue, yellow, cyan, brown, orange, magenta
Speed measurement	yes, combined with Metrici Observer Radar
Red light infringement detection	yes, using a companion camera
Detection window	yes, user definable
Single plate mode	yes
Number of barriers/ gates controlled	up to two for each connected camera, driven independently depending on the recognized plate number
GPS coordinates	yes, if a GPS dongle is connected
Weight	yes, the weighing scale should be connected to a Barix Barionet 50 equipped with a special Metrici firmware
Speed	yes, by using a Metrici Observer Radar
Data type for each recognized plate	plate number, country code, recognition probability, moving direction of the car, first seen, last seen, location name, camera

	name, gps latitude, gps longitude, car picture, plate number picture, companion picture, weight, speed, class, maker, color
Parallel processing	adaptive multithreading, up to 8 threads for each connected camera
GPU acceleration	yes, Intel, AMD or Nvidia supported
Data push	POST method over HTTP, two events generated: check_action and reporting
Plate number syntax check	yes, for more than 45 countries, more than one in the same time
Supported countries	Albania, Austria, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Bahrain, Colombia, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Israel, Ireland, Italy, Kosovo, Kuwait, Jordan, Latvia, Lithuania, Luxembourg, Macedonia, Moldavia, Monaco, Montenegro, Netherlands, Norway, Peru, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tanzania, Turkey, Ukraine, Zanzibar

System requirements	
OS	Linux CentOS 7 64 bits
CPU	Intel i5, i7, i9, Xeon, AMD Ryzen, Threadripper or Epyc
GPU	Intel, AMD or Nvidia, mandatory for more than 2 cameras/ server
System memory	512 MB for each connected camera, but no less that 4 GB/ server
GPU memory	at least 256 MB available for each connected camera
Storage	up to 512 KB for each plate number stored into the buffer, depending of the camera resolution and image compression
Cameras/ server	up to 256 conected cameras on each server, unlimited number of servers
Camera type	IP, MJPEG, MxPEG, H.264, H.265 video stream, HTTP or RTSP/ RTP transport protocols
Supported camera producers	ACTi, Arecont, Avigilon, Axis, Bosch, Dahua, Diviotec, Hikvision, Mobotix, Novus, Pelco, Samsung, Sony, Uniview, Vivotek