

Platform name	Vehicle type	Size (LxWxH)	Power sources
CMAS1	Ford F250	21'10" x 9'10" x 8'4"	Diesel fuel or 120V outlet
CMAS2	Ford F550	25'7" x 10' x 10'6"	Gasoline fuel or 120V outlet



Instrument name	Information content	Coverage	Max resolution	Time res.
Doppler lidar	Vertical mixing, horizontal wind speed and direction, depth of the urban dome, cloud base height	Profile 30m to 2.5km	18 m	2 s
Backscatter lidar	Depth of the urban dome, cloud base height	Profile 30m-15km	5 m	15 s
Micro-rain radar	Cloud height, rain location	Profile 30m-15 km	15-60 m	2-10 s
Disdrometer	Rain particle size distribution, rain fall velocity, rain rate	Fixed height 2 m	32 bins	1 min
Fisheye camera	Visible images	~1.5 km radius		live stream
IR camera	Thermal images, surface temperature	Variable		Variable
Modulair	NO, NO ₂ , O ₃ , PM ₁ , PM _{2.5} , PM ₁₀ concentration	Fixed height 2 m		3 min
Met station	Horizontal wind speed and direction, air temperature, barometric pressure, relative humidity, rain amount	Fixed height 2 m		~1 min
Radiosonde	Horizontal wind speed and direction, air temperature, barometric pressure, relative humidity	Profile 2m-20 km		1 sonde at a time
WindSond	Horizontal wind speed and direction, air temperature, barometric pressure, relative humidity	Profile 2m-8km		16 sonde simultaneously

